

motralec

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SULZER

Sulzer Pumps

Pumping Solutions for the Water and Wastewater Industry



The Heart of Your Process

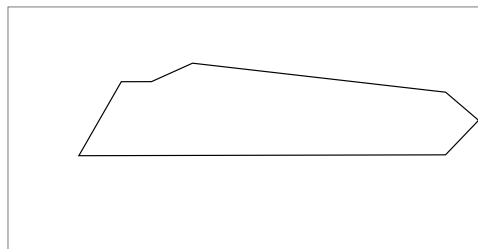
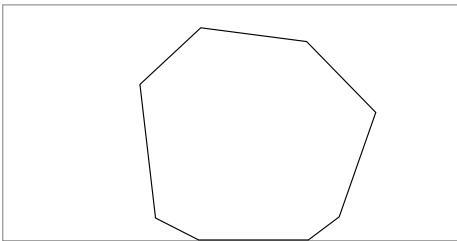


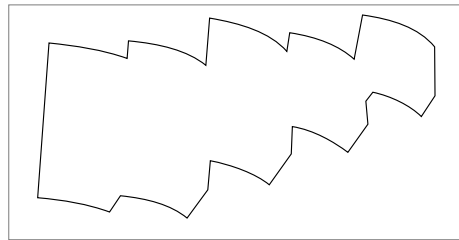
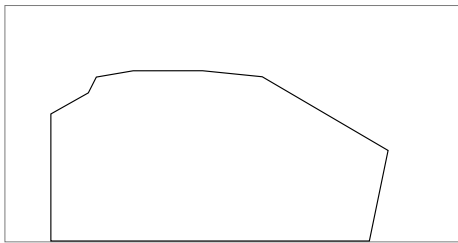




Product Matrix

Product Technology	Product Type	Water Transport	Water Supply	Irrigation Drainage	Water Treatment	Waste-water	Desalination
Axially Split Pumps	HPDM	S	S				
	SM/SMN	S	S	S	S		S
	ZPP	S	S	S	S		S
	MSD	S					S
Ring Section Pumps	MBN		S				S
	HPH/HPL		S				
Single Stage Pumps	ZE/ZF						S
	AHLSTAR ^{UP} A Series		S		S		S
	CPT		S		S		S
Vertical Pumps	SJT	S	S	S			S
	SJM	S	S	S			S
	SJP		S	S			
	JTS		S	S	S		
	Submersible		S	S			
	APV/NPV		S	S	S	S	S

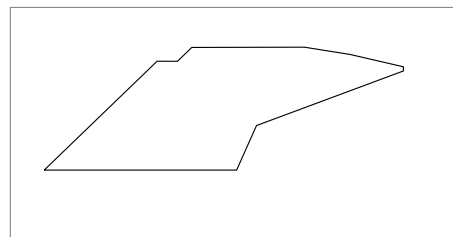
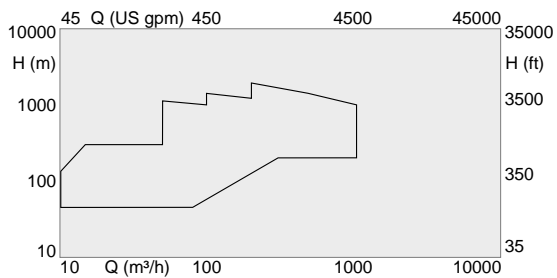






These multistage pumps are specially designed for mine dewatering applications. Their robust construction is designed to combat the highly abrasive environment in which they operate. Extensive use of replaceable wear surfaces ensures the pumps can be rapidly refurbished to as-new condition without extensive replacement of core parts.

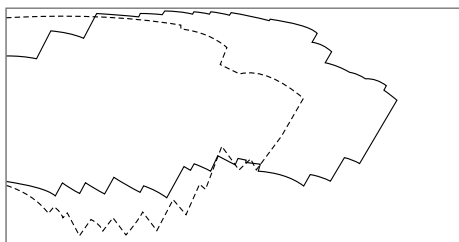
Performance range



Pressure 170 bar / 2500 psi
 Temperature 105 °C / 220 °F

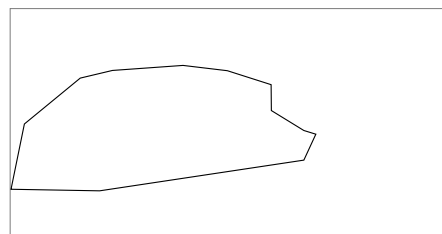
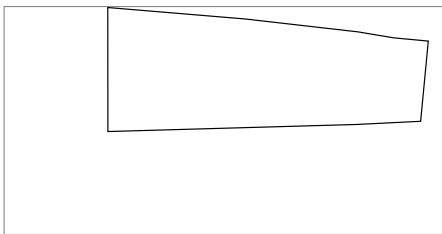


AHLSTAR^{UP} pumps are designed for pumping clean, abrasive or corrosive liquids. The Sulzer Dynamic Seal is specially designed for difficult liquids offering reliable operation and low total sealing cost. The CPT pump is designed for continuous operation in process industries.



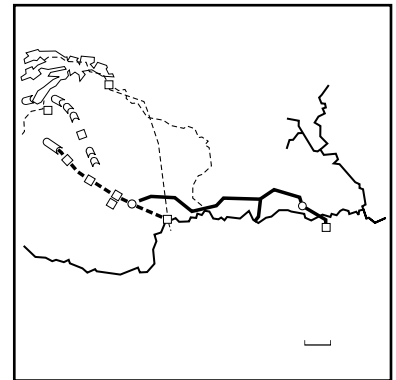
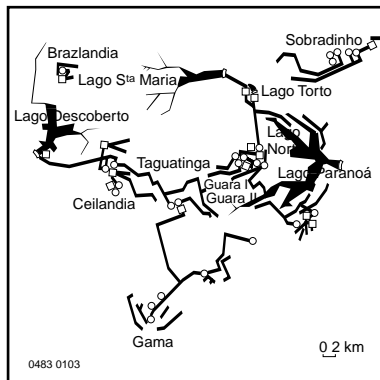
Pressure 16 bar / 230 psi
Temperature 180 °C / 355 °F



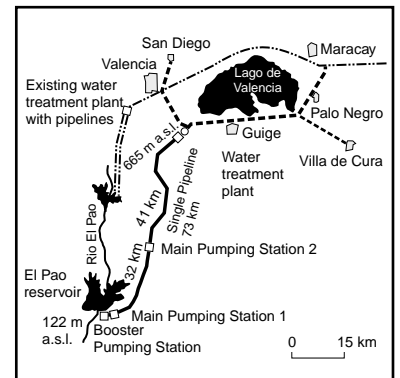
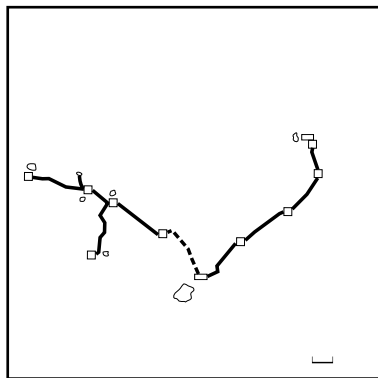


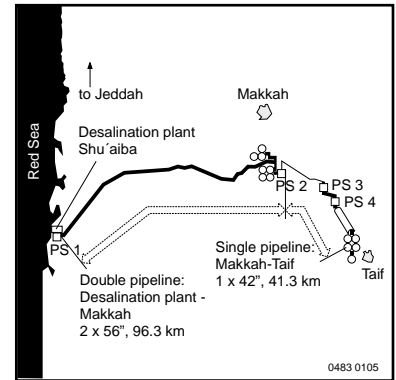
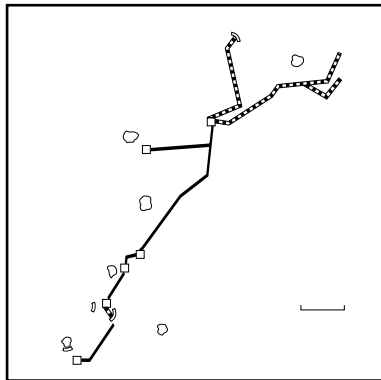


Major Reference Installations – Water Transport











Reverse Osmosis

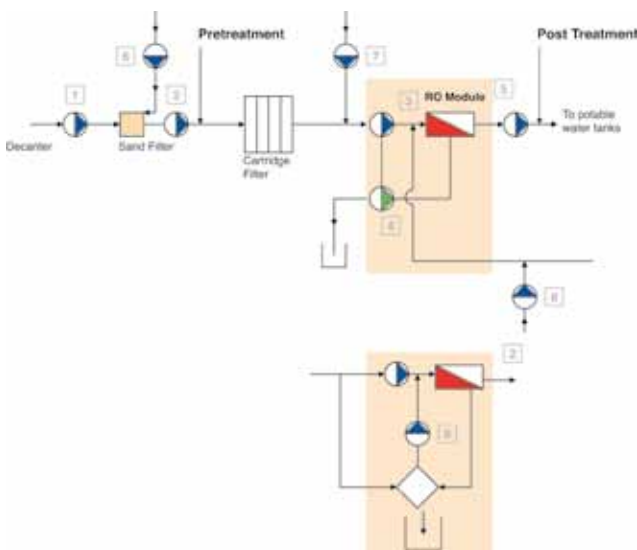
The need for high-quality water significantly increased during the second half of the last century. An important problem is about to be solved at a near-affordable cost. The cost of desalinated water is decreasing.

Pure, high-quality drinking water is essential for day-to-day living, food production, better industry, agricultural use and a better standard of living. Water can no longer be considered as a natural self-renewable, low-cost resource, easily accessible to all.

Desalination of sea (or brackish) water has been practiced regularly for over 50 years and is a well-established means of water supply in many countries. It is now feasible,

technically and economically, to produce large quantities of water of excellent quality from desalination. Membrane processes, mainly Reverse Osmosis (RO), are currently the fastest growing techniques in water desalination. Reverse Osmosis uses dynamic pressure to overcome the osmotic pressure of the salt solution. With RO, salty water is subjected to high pressure and forced through a membrane, which results in the retention of the salt ions.

The selection of pumps must consider the specific operational aspects of the plant design; depending on the principle of pressure recovery selected (either via Pelton turbine or isobaric chamber), different pump needs arise. The performance and selection of optimum pumping equipment is paramount to reaching the best possible reliability and lowest operating cost in RO desalination plants. Sulzer Pumps is a full range supplier to RO plants. We offer a range from small end suction single stage pumps to large multistage pumps and innovative products.



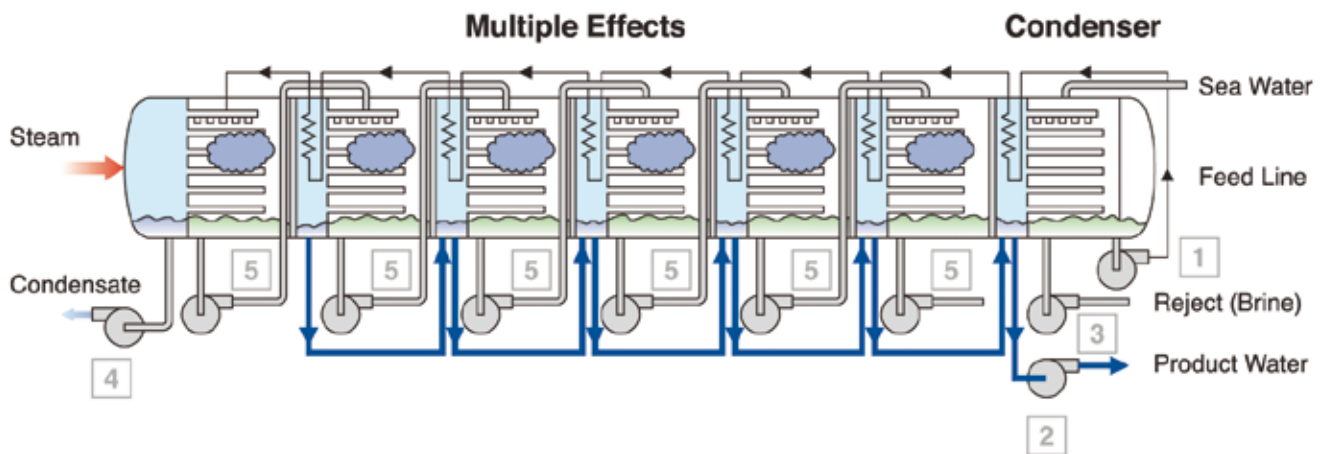
- 1 Sea water intake / Inter feed pump
- 2 CF feed pump / LP booster pump
- 3 RO high pressure feed pump
- 4 Energy recovery turbine (Pelton)
- 5 Product water pump
- 6 Filter backwash pump
- 7 Flushing pump
- 8 Chemical cleaning pump
- 9 HP circulation pump







Multi-Effect-Distillation Plant



- 1 Seawater Pump**
Feeds with condensate from condenser to the first effect
- 2 Product Water Pump**
Transfers distillate water from last effect to storage, post treatment and distribution
- 3 Brine Pump**
Removes brine from condenser and multiple effects
- 4 Condensate Pump**
Removes condensate from steam that is recovered in first effect
- 5 Intermediate Feed Pump**
Boosts the distillate water from previous to next effect



Sulzer Pumps Customer Support Services Performance Through People

If pumps and rotating equipment are critical to your operations, you seek specific qualities when selecting external service support:

- s ! SERVICE PARTNER YOU CAN TRUST
- s 2ELIABILITY
- s 2ESPONSIVENESS
- s 2APID TURN AROUND
- s)NNOVATIVE 3OLUTIONS

Our service professionals deliver these qualities and more to customers from all industry sectors around the globe.

With services ranging from spare parts to trouble shooting, we can maintain your rotating equipment and improve your processes.

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