



TURBINE PUMPS STM Series

STM regenerative turbine pumps are ideally suited for low flow / high head applications. All STM pumps are equipped with zero leakage magnetic couplings to meet the latest toxic emissions regulations. The absence of mechanical seals or packing glands eliminates costly pump maintenance, lost production time and process contamination.

STM turbine impellers are perfectly balanced with no residual axial load. Added reliability in even the most adverse operating conditions.

STM pumps are able to pump liquids containing up to 20% entrained gas, it is possible to feed two different liquids (or a liquid and a gas) simultaneously into the suction of the pump. The rotary motion of the impeller quickly and efficiently mixes the two substances together. The turbine impeller's strong stirring capability eliminates the need for using a static mixer or diffusion pipe. Dynamic design, can be throttled to a required duty point without by-passing. Heavy duty casing and impeller components, machined from wrought alloy bars. Rugged containment housing for added safety. Available in standard or API configurations.

FEATURES

- Single stage regenerative turbine pumps
- Performances and Dimensions: our standard PN 16
- Models: 1,5x6 up to 2,5x9
- Threaded nozzles, option Flanged
- Low Flow, High Head

MATERIALS

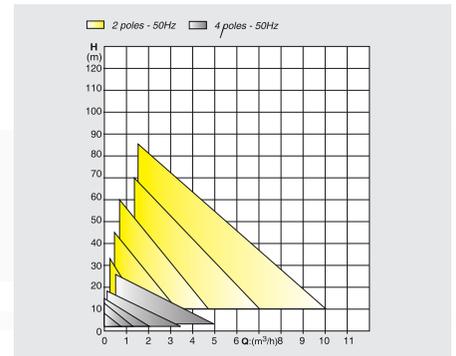
- Stainless Steel AISI 316L fully machined
- On request Incoloy 825 and Hastelloy C

APPLICATIONS

- Chemical plants
- Pharmaceutical
- Food processing
- Laboratories
- Transfer of solvents and alkalies
- Refrigerants

All pumps are manufactured in accordance with the current CE-Standard **** Explosion proof models according to ATEX directive, category II are also available. ****

Discharge nozzles	1/2" up to 1"	
Poles	2	4
Capacity [m ³ /h]	up to 10	up to 5
Head [m]	up to 80	up to 25
Max. Pressure (Bar)	16	
Max. Temper. (°C)	300	



ref	DESCRIPTION	MATERIAL
10	Rear Casing	AISI 316L
20	Ext. Magnet	Neodym./Steel
30	Int. Magnet	AISI 316L/CoSm
40	Impeller	AISI 316L
51	O-Ring (a+b)	Viton
61	Thrust Bearings	PTFEC or Graphite AISI 316L
62	Rear Ring	AISI 316L
70	Shaft	AISI 316L or SiC
75	Sleeve Bearings	PTFEC or Graphite
78	Bracket	Cast Iron
84	Front Ring	AISI 316L
85	Pump Head	AISI 316L

SECTIONAL DRAWING

