

TMXFLOW[®]
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Product Catalogue

**TCX
CENTRIFUGAL
SANITARY PUMP**



Key Uses

The TCX Centrifugal Pump is designed for hygienic and efficient transfer of low-viscosity fluids in processes where cleanliness, corrosion resistance, and operational reliability are essential. Manufactured from high-grade stainless steel such as 304 or 316L, and capable of handling a wide range of operating temperatures and flow rates, it ensures stable performance while maintaining product integrity. Its sanitary structure and smooth internal surfaces make it particularly suitable for integration into CIP/SIP systems and other hygienic processing lines.

The TCX Centrifugal Pump is widely used across industries including food and dairy processing (milk, cream, liquid foods), beverage production (juices, soft drinks, fermented liquids), pharmaceutical and biotechnology manufacturing (sterile fluid handling), as well as cosmetics and personal care production (lotions, liquid soaps, and similar products), where hygienic design and gentle fluid handling are critical.

Design and Features

Stainless Steel Casing: Constructed from cold-formed stainless steel for strength and hygienic performance.

Impeller Options: Open or closed impellers made via precision stainless steel casting.

Adjustable Legs: Stainless steel feet for stable and flexible installation.

Sanitary Design: Built in compliance with 3A hygienic standards.

Motor Specifications: IEC/NEMA B34 motors, IP55 protection, Class F insulation, suitable for 50/60 Hz.

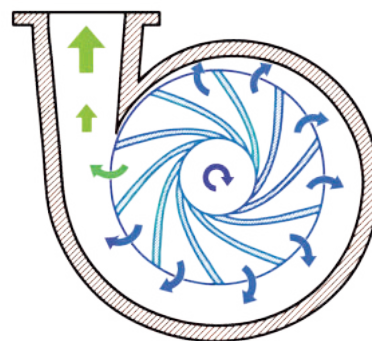
Materials

Pump Head Housing: AISI 304 / 316L
Gaskets: EPDM or FPM
Shafts: Stainless Steel
Mechanical Seal: Single / Double M.S.
Surface Finish: Ra<0,4 - Ra<0,8 µm
Connection Standard: DIN, SMS
Connection Option: Thread, clamp, flange
Base Plate: Stainless Steel
Coupling Guard: Stainless Steel



Operating

The impeller, mounted on the pump shaft, rotates within the casing and imparts energy to the fluid in the form of velocity and pressure, generating flow through centrifugal force. The pump is designed for one-directional operation and is not suitable for reverse running. The correct rotation direction is clockwise when viewed from the rear side of the motor.



Operating Limits

Maximum flow: 80 m³/h

Head: 70 H/M

Temperature: -20°C to 140°C

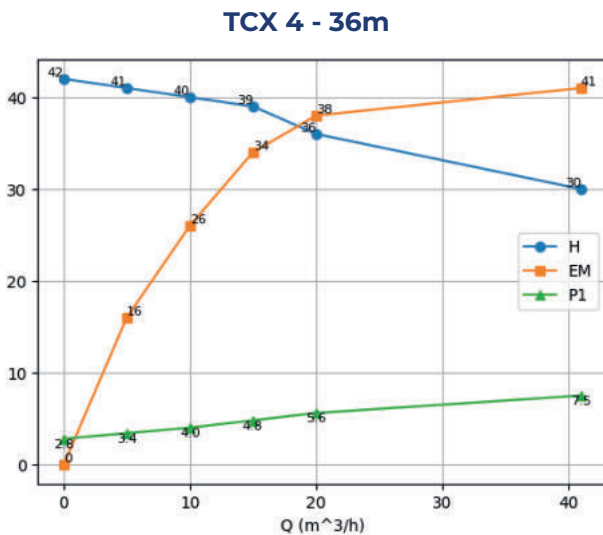
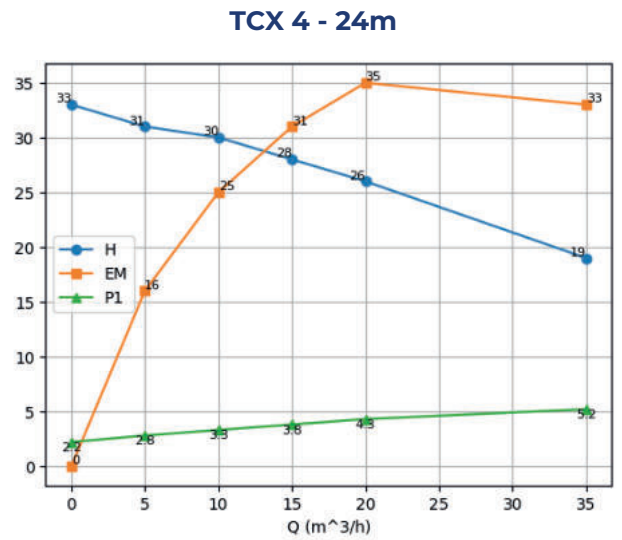
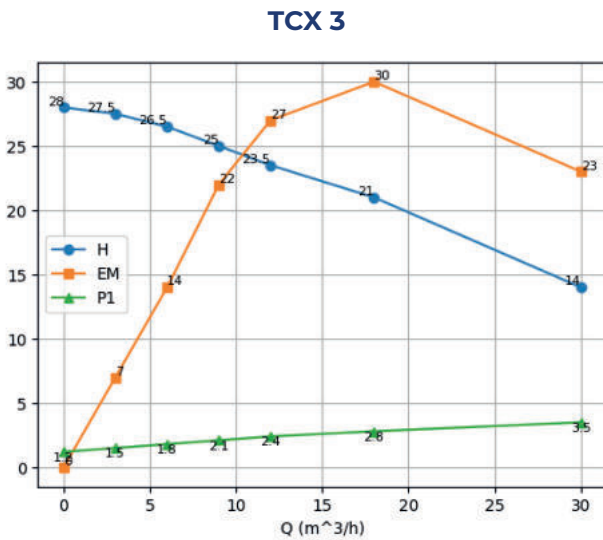
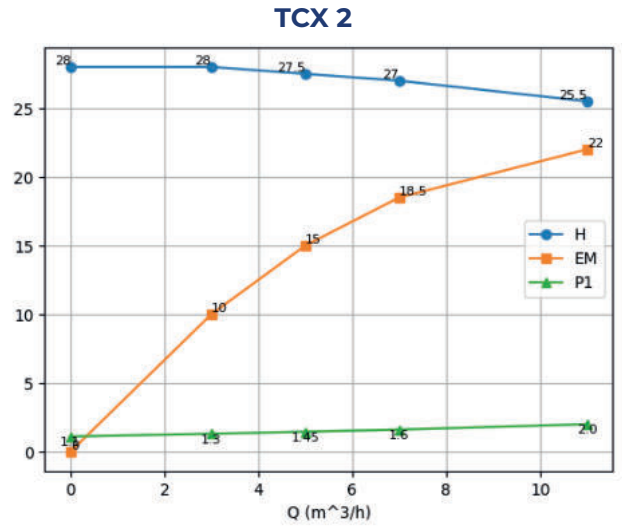
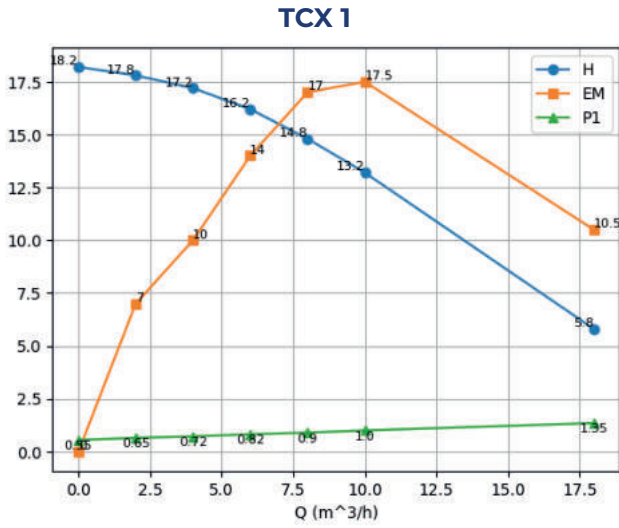
Power: : 0,75 - 22 kw

Operating Data

Model	Motor Power (kw)	Flow Rate (m ³ /h)	Head (m)	Imported Pipe Diameter D1 (mm)	Outlet Diameter D2 (mm)
TCX 1	0,75	3	18	38	32
TCX 2	1,5	5	24	51	38
TCX 3	2,2	10 5	24 32	51	38
TCX 4	4,0	20 15	24 36	51	51
TCX 5	5,5	30 20	24 36	63	51
TCX 6	7,5	40 30	24 36	63	51
TCX 7	11	50 20	25 55	76	63
TCX 8	15	60 30	30 55	76	63
TCX 9	22	80 40	50 70	89	76

TCX CENTRIFUGAL SANITARY PUMP

Performance Graph



APPLICATION AREAS & INDUSTRY SOLUTIONS

FOOD INDUSTRY



The TCX Centrifugal Sanitary Pump is engineered to meet strict hygiene requirements in food processing applications.

It ensures safe and contamination-free transfer of various food products such as sauces, syrups, edible oils, and processed liquids.

Its hygienic design and CIP (Clean-in-Place) compatibility enable efficient cleaning and reliable operation.

DAIRY & BEVERAGE INDUSTRY



The pump is ideal for handling dairy and beverage products such as milk, cream, yogurt, juice, and beer.

Its smooth stainless steel construction minimizes bacterial growth while maintaining product integrity. It provides stable and efficient fluid transfer throughout production and filling processes.

APPLICATION AREAS & INDUSTRY SOLUTIONS

COSMETICS & PERSONAL CARE PRODUCTS



The TCX Centrifugal Sanitary Pump is specifically designed to meet the high hygiene and quality standards required in cosmetics and personal care production. It ensures smooth, efficient, and contamination-free transfer of products such as creams, lotions, gels, shampoos, and liquid soaps.

With stable flow performance and gentle handling of fluids, the TCX pump protects sensitive formulations, preserving texture, viscosity, and product integrity throughout the manufacturing process.

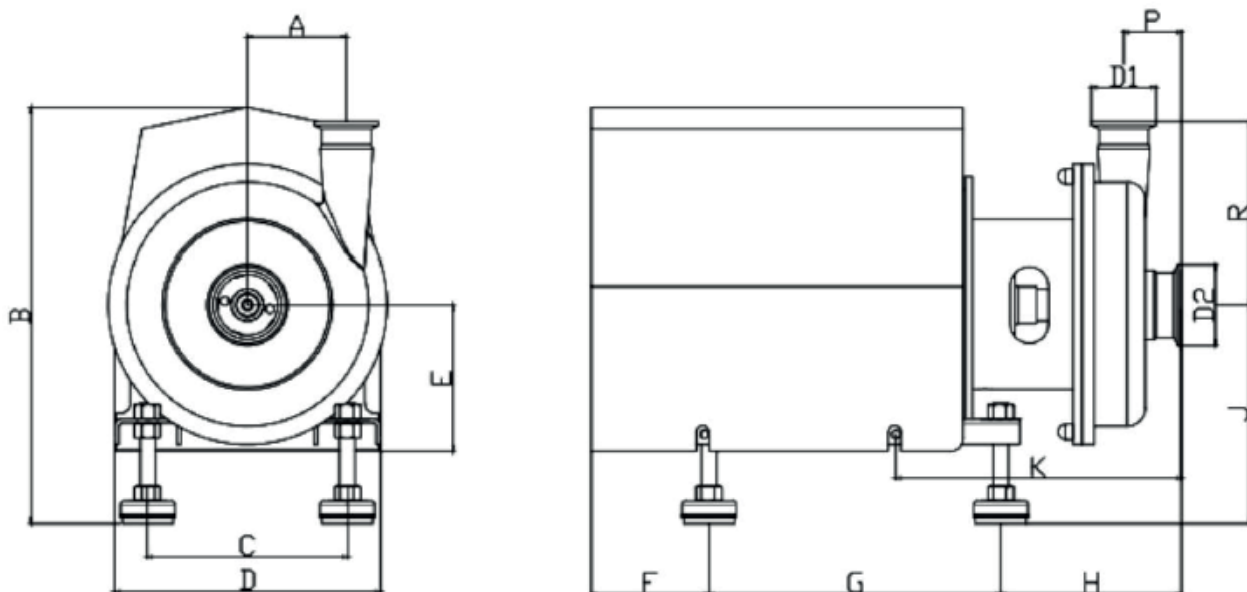
PHARMACEUTICAL & FINE CHEMICALS INDUSTRY



The TCX Centrifugal Sanitary Pump is engineered to meet the stringent hygiene and precision requirements of pharmaceutical and fine chemical industries. It ensures safe, sterile, and contamination-free transfer of sensitive fluids such as purified water, solvents, active pharmaceutical ingredients (API), and high-purity chemicals.

Made from high-grade stainless steel (316L), the pump offers excellent corrosion resistance and hygienic design with minimal dead zones and full drainability.

DIMENSIONS



TCX Series Size Parameters

MODEL	A	B	C	D	E	F	G	H	K	J	R	P	KG
TCX 1	67	321	142	210	118	89	230	169	220	169	124	41.5	21.5
TCX 2	78	327	158	210	115	93	230	142	225	169	147	45.5	28
TCX 3	78	342	158	210	115	108	255	144	227	172	143.5	45.5	31
TCX 4	93	439	192	260	141	128	290	180	261	217	163	58	63
TCX 5	102	472	230	310	157	135	335	200	288	229	168	54	89
TCX 6	102	472	230	310	157	135	335	200	288	229	168	54	93
TCX 7	100	575	254	370	185	160	400	260	348	280	188	66.5	145
TCX 8	100	575	254	370	185	160	400	263	348	280	188	69.5	165
TCX 9	128	575	254	370	185	160	460	237	322	280	183	47	190

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To contact TMXFLOW:
You can find up-to-date contact information for all countries on our website.

For more detailed information, please visit www.tmxflow.com