

PITOT TUBE PUMPS

High head at low flow, from one stage.

EHIK pitot tube pumps produce up to 1,050 m (3,445 ft) of head in a single rotating stage. Since 2004, we have focused on one product: the pitot tube pump.

FLOW

0.05–70 m³/h
0.2–308 US gpm

HEAD

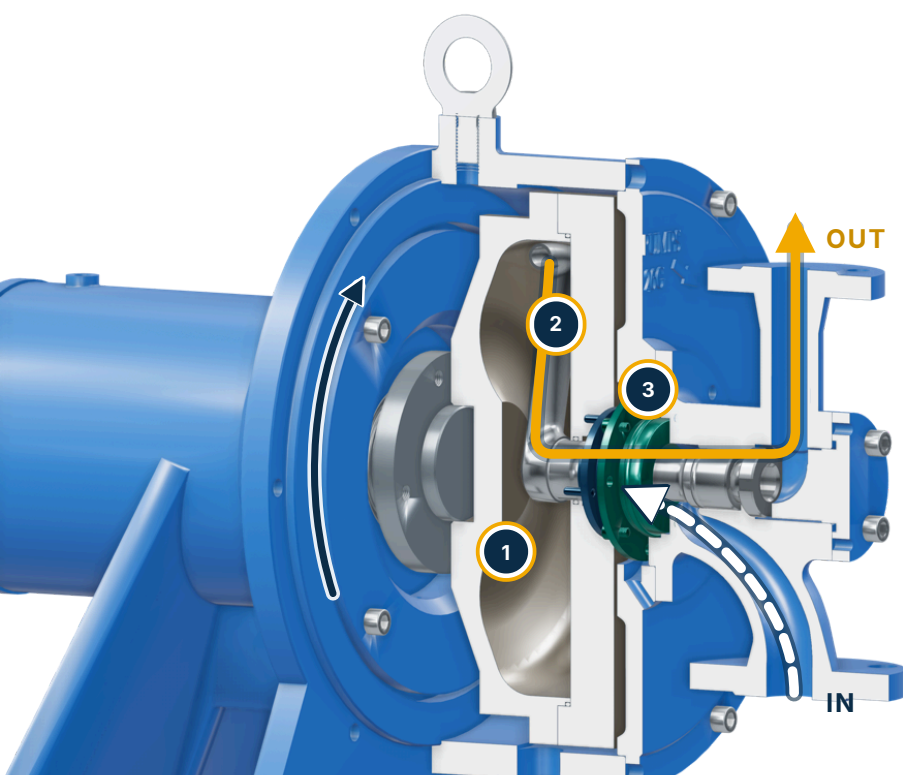
Up to 1,050 m
3,445 ft

TEMPERATURE

Up to 260 °C
500 °F

VISCOSITY

Up to 250 cSt
about 1,160 SSU



1 Rotor

Turns with the shaft at up to 6,300 rpm and spins the liquid.

2 Fixed pickup tube

Collects the spinning liquid and converts its speed into pressure.

3 Mechanical seal

At the inlet, so it sees only inlet pressure. No rotating seal on the high-pressure side.



Inlet



Outlet · high pressure



Watch the 3D animation

Scan or click to see how the pump works.

One stage, full head

No stacked impellers or diffusers. Few parts to wear, easy to maintain.

Handles some gas and solids

Pumps liquids that contain some gas or solid particles. As the gas content rises, flow and head fall gradually.

Stable at low flow

With a small continuous bypass, the pump can run at any flow, even with the outlet valve closed. No relief valve is needed.

Steady flow and pressure

Very little pulsation, noise and vibration. No pulsation damper is needed.

WHERE IT IS USED

Feedstock oil in carbon black plants · Paper machine showers · Gas-field water transfer and reinjection · High-pressure chemical process duties · Central cleaning systems

Seven series. Selected for your duty.

SERIES	MAX. FLOW	MAX. HEAD	MOTOR POWER
180	5.5 m ³ /h 24 US gpm	200 m 656 ft	1.5–4 kW 2–5 hp
260 / 260G	12 m ³ /h 53 US gpm	400 m 1,312 ft	4–15 kW 5–20 hp
280	30 m ³ /h 132 US gpm	430 m 1,411 ft	7.5–55 kW 10–74 hp
320	30 m ³ /h 132 US gpm	450 m 1,476 ft	11–55 kW 15–74 hp
390	56 m ³ /h 247 US gpm	800 m 2,625 ft	18.5–160 kW 25–215 hp
420	70 m ³ /h 308 US gpm	1,050 m 3,445 ft	22–110 kW 30–148 hp
450	20 m ³ /h 88 US gpm	500 m 1,640 ft	37–55 kW 50–74 hp



Pump set with a seal support and flush system

Performance is set by the pump speed (2,900–6,300 rpm) and the pickup tube. We select both for your duty and send you the performance curve. Special designs up to 1,500 m (4,921 ft) head or 100 m³/h (440 US gpm) are built to order.

Seals

Single or double cartridge mechanical seals. API seal arrangements and flush plans (such as Plan 52 or 53) on request.

Supply and bearings

Bare-shaft pump, pump set or close-coupled design. Bearings: grease (180, 260) or oil bath (280 to 450).

Materials

Wetted parts in carbon steel, ductile iron, 304 or 316 stainless steel, or duplex stainless steel, chosen for your liquid. Pickup tubes in 17-4PH stainless steel.

Connections

Flanges made to fit your existing piping, so a replacement pump connects directly.

To select a pump, send us:

- Liquid and temperature
- Flow range
- Inlet and outlet pressure
- Viscosity and density
- Gas or solids content
- NPSHa, if known

Quotation in 3 business days

Most models in stock. Items in stock ship after payment.

Test report with every pump

Warranty: 12 months after installation or 18 months after delivery

Send us your liquid, flow and pressure.

We reply within 1 business day.

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