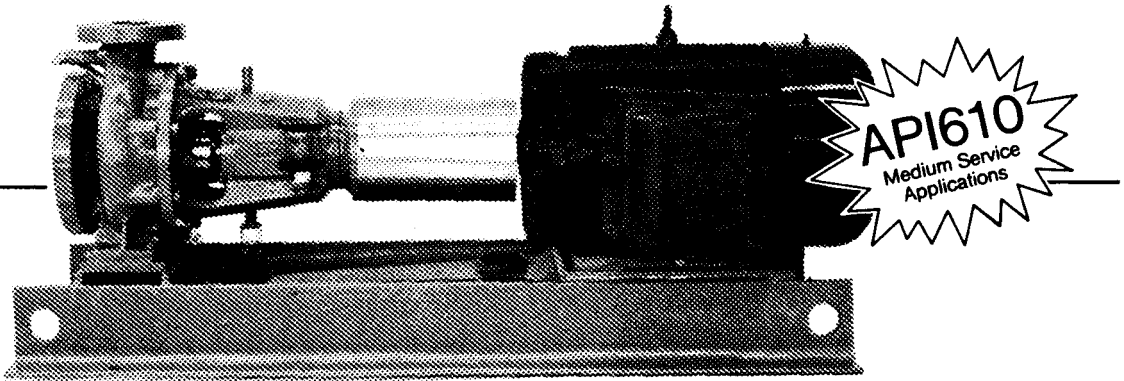




HT PROCESS

Hydro -Titan™ Process Pumps



PUMP TYPE

The TKL Hydro-Titan™ Process back pull-out pump is a horizontal end suction, vertical top discharge, single stage, foot mounted centrifugal process pump with major features to API 610, medium service applications.

These pumps are of robust construction, pumping a variety of fluids and the back pull-out facility enables the rotating elements to be withdrawn without disturbing the suction and delivery piping, and by using a standard spacer-type coupling, the prime-mover does not require removal.

The TKL Hydro-Titan Process pump is designed for continuous pumping duty to meet the API 610 requirements for light to medium duty service in the petroleum, petrochemical and industrial services.

PUMP RANGE

Flow Rate	to 250 L/s
Total Head	to 140 m
Working Pressure	to 1600 kPa
Temperature	to 150°C
Power Range	0.5 to 200 kW
Sizes	50 to 250 mm

PUMP FEATURES

CASING: Is of Carbon Steel to ASTM A216 Grade WCB. Mounting feet are incorporated in the casing casting. Case to cover seal, consists of a confined 316 Stainless Steel Spiral Wound Gasket. Carbon Steel cases are designed to withstand a hydrostatic test pressure of 24 bar (2400 kPa) (350 PSIG). Hydrostatic test on casing will be carried out. Case studs are of high tensile steel to BS 4439 Gr. 8.5. Casings are self venting and fitted with drain plugs - bosses are provided for case connections.

FLANGES: Dimensions are to ANSI-B 16.5 (BS 1560) - 300 LB R.F. with serrated finish.

PUMP COVER: Supplied in same material as the casing, incorporates the water seal and stuffing box.

STUFFING BOX: Incorporated in pump cover, and is fitted with soft packing and a lantern ring to allow fluid from pressure side of casing to lubricate and seal the gland assembly. Gland studs are AISI 4140 steel. Provision is also made to permit external water to be fed into the stuffing box. Mechanical seals are available as an option.

IMPELLER: Available in Grey Cast iron to ASTM A48 CL 30, Carbon Steel to ASTM A 216 Grade WCB and 12% chrome steel to ASTM A 743 Grade CA6NM. The impeller is keyed to the shaft and locked with a stainless steel enclosed nut and integral washer. All impellers are electronically, hydraulically, and dynamically balanced and hand finished in water ways.

CASE & COVER SEAL RINGS: Are standard and are available in Cast Iron to ASTM A 48 CL 30 or hardened 12% Chrome Steel to ASTM A743 Grade CA6NM.

SHAFT: Standard shaft is of AISI 431 stainless steel and is of large diameter and short length to reduce shaft deflection. The hook type shaft sleeve extends beyond the seal chamber and is of 12% chrome steel to ASTM A276 Type 410. The shaft sleeve is sealed to the shaft with a sleeve gasket.

PACKING: Stuffing boxes are packed with 5 rings of moulded graphited packing. There are two rings on the impeller side of lantern ring and three rings on gland side.



LANTERN RING: A Cast Iron lantern ring is located in line with internal water circulation hole, and is split for ease of removal and replacement.

GLAND: Is of Carbon Steel in two halves, bolted together to enable the complete gland to be removed for easy access to stuffing box.

BEARINGS: The TKL Hydro-Titan Process pump is fitted with two identical deep groove ball bearings. There are only three bearing sizes for the whole range. Bearings are sized for long life and oil lubricated.

BEARING HOUSING: Is of cast iron, flanged to suit casing and cover, and incorporates larger openings for access to gland and stuffing box. A constant level oiler is fitted.

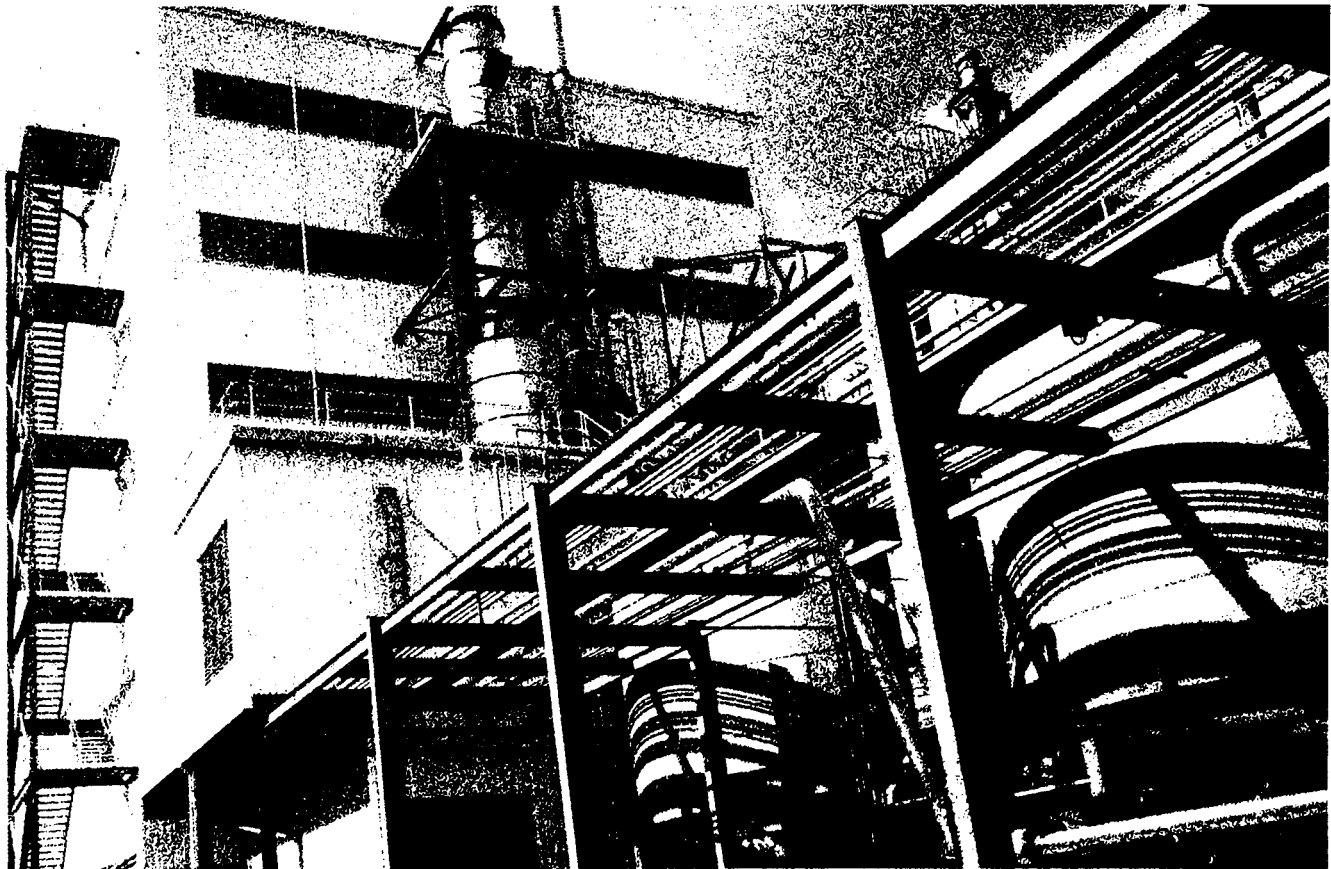
BEARING COVERS: Are of cast iron and fitted with bronze deflectors to exclude dust and water from the bearings. Covers are held in place by high tensile capscrews.

ACCESSORIES

SPACER COUPLINGS: The TKL Multi-Flexpin spacer coupling is available in sizes to suit the full range of TKL Hydro-Titan Process pumps. It is designed around tapered rubber bushes which smooth out torsional vibrations and by using this coupling, rotating elements may be removed without disturbing casing and pipework or electric motor and wiring.

COUPLING GUARD: Is rolled from aluminium sheet and completely encloses coupling for ultimate safety.

BASEPLATES: Are available to suit the full range of pumps. They are of cast iron with machined pads to take pump and driver, and incorporate drain pan construction leading to a tapped drain hole for gland leakage. They also feature a grout hole and large openings for use of lifting bars during installation.



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