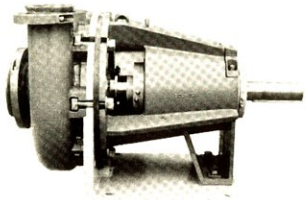
Sykes Pumps

Specification 150/100 ED
Specification 150/100 E

Orion-Hard Iron Pumps.



Features

* Efficiency of a clean water pump
* Unique wear adjustment of back and front impeller running clearances
* Large impeller gives lower internal velocities
* Back or front pull out facility for ease of inspection
* Simplicity of maintenance
* High head
* Cartridge bearing assembly
* Robust construction
* Centrifugal dry gland seal
* Min. hardness 550 BHN
* British design and manufacture
* Hard iron pumps are also available in sizes from 75mm-300mm with various duties.

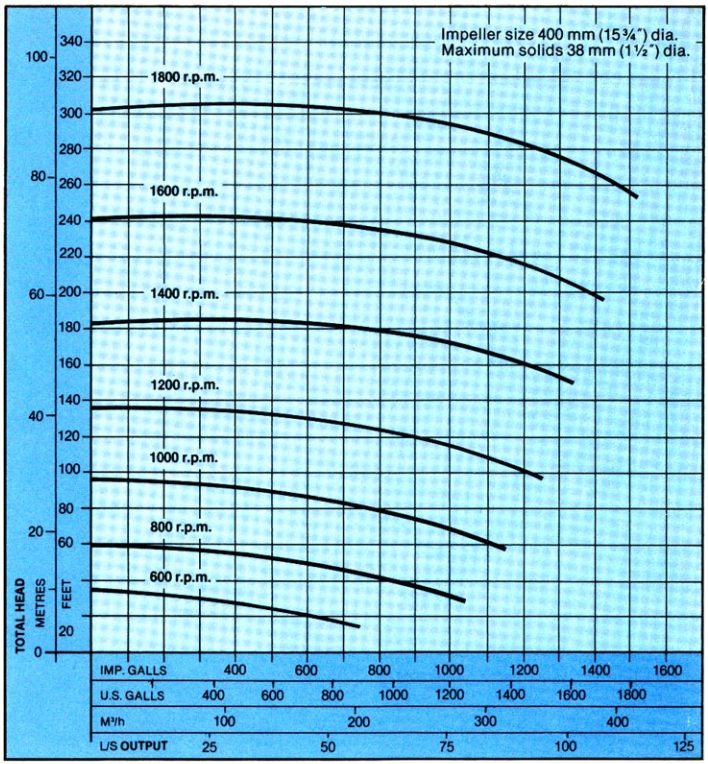
General Duties

Orion Sykes Hard Iron Slurry Pumps are specially designed for those applications where high efficiency is required when handling abrasive and highly concentrated slurries.
The 6″ x 4″ configuration (150mm suction, 100mm discharge) can be belt or direct driven, and can be fitted with Sykes automatic priming equipment if required. The pump will pass solids up to 38mm in diameter. Two versions are available, 150/100 ED and 150/100 E capable of transmitting 80 and 200 hp respectively.

Applications

Abrasive slurries containing solids up to 38mm dia. e.g.
Coal • Sand • Gravel • Bottom Ash • Flyash • Cement • Slimes • Tailings • Chemicals • Mill Scale • Sugar Juice • Magnetite • Ferrosilicon • Bauxite • Drilling Mud • China Clay • Milk of Lime • Scrubber Dust • Gypsum • Phosphate • Potash • Effluent • Bentonite • Opencast waste.

Head/Capacity Curve



Orion-Hard Iron Pumps.

Impeller: Five vane closed type. Ni-hard 2, to 550 BHN.

Volute: High quality Ni-hard 2. Split loose suction and discharge flanges.

Bearings and shaft: Over sized taper roller bearings, heavy shaft to absorb side load from belt drive. Bearings are grease lubricated and protected by labyrinth arrangement.

Seal: Hydro-dynamic centrifugal type with soft packing stuffing box.

Materials of Construction

Casing	Ni-hard type 2. Min.
Impeller	hardness 550 BHN (other
Back Liner	materials available)

Base plate: Steel.

Bearing Frame: S.G. Iron (BS.2789:1973 Grade 410/12).

Shaft: BS.970 EN8.

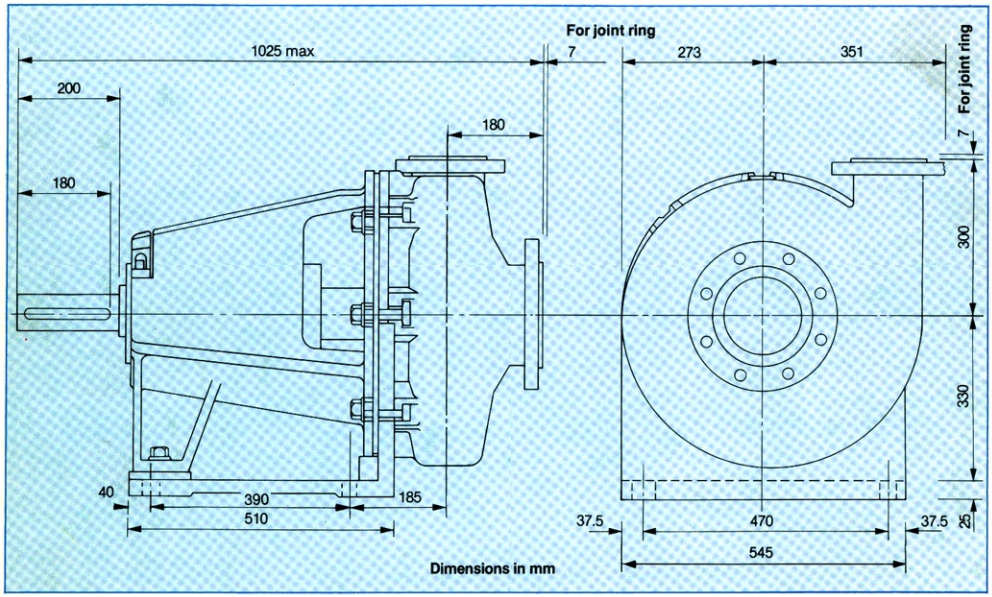
Expeller: Chrome Iron.

Expeller Plate: Cast Iron, natural abrasion resistant rubber covered.

Shaft sleeve: Hardened stainless steel (BS.970 EN 56C).

Flanges: S.G. Iron (BS.2789: 1973 Grade 410/12).

Packing: P.T.F.E. impregnated asbestos.



As we continually strive to improve our products, we reserve the right to amend specifications, dimensions and particulars contained in this publication without prior notice.

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