

DE LAVAL STEAM TURBINE COMPANY

MAIN OFFICES AND WORKS: TRENTON, N. J.

SALES OFFICES

ATLANTA
BOSTON
CHARLOTTE
CHICAGO

CLEVELAND
DULUTH
HAVANA
HELENA

HONOLULU
HOUSTON
KANSAS CITY

LOS ANGELES
MONTREAL
NEW YORK

NEW ORLEANS
PHILADELPHIA
PITTSBURGH

PORTLAND, ORE.
ST. PAUL
SALT LAKE CITY
SAN FRANCISCO

SEATTLE
SPOKANE
TORONTO
VANCOUVER

PRODUCTS:

Steam Turbines; Centrifugal Pumps; Centrifugal Blowers and Compressors; Double Helical Speed Reducing Gears; Worm Reduction Gears; Water Turbines; Flexible Couplings, and special centrifugal machinery.

STEAM TURBINES:

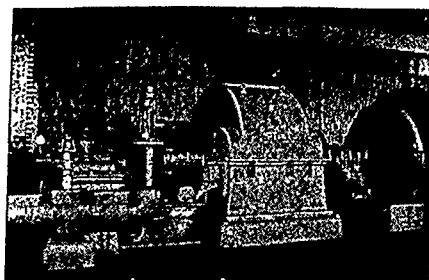
De Laval turbines are built for all steam conditions, such as high pressure, condensing and non-condensing, back pressure, bleeder and mixed flow service. They are also adapted to driving machines at all speeds, either directly connected or through the DE LAVAL DOUBLE HELICAL SPEED REDUCING GEAR.

De Laval Velocity Stage Turbines have been designed to operate on high pressure, high temperature steam. The steam chest and governor valve bodies are incorporated in the casing cover, eliminating joints and keeping high temperatures away from the bearings, so that water cooling is unnecessary. De Laval velocity stage turbines built in all sizes up to 1200 hp.

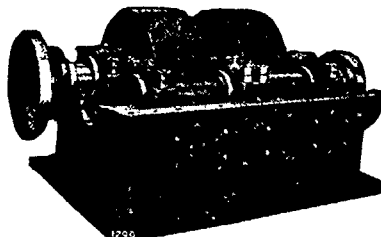
De Laval Pressure Stage Turbines, built in capacities up to 15,000 hp., give the highest obtainable efficiencies. The compound geared turbine realizes the highest efficiencies with high pressure superheated steam and high vacuum and is unexcelled for driving direct current generators, centrifugal pumps, ship propellers, etc.

CENTRIFUGAL PUMPS:

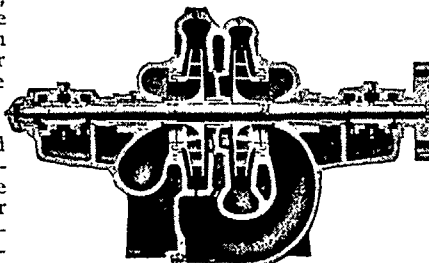
De Laval Centrifugal Pumps are characterized by conservative speeds, high class materials, construction on a limit-gage interchangeable basis, guaranteed efficiency and capacity and a comprehensive system of testing. The low starting torque, self-limiting power characteristic and high efficiency of De Laval centrifugal pumps adapt them to be driven by electric motors, including self-starting synchronous motors.



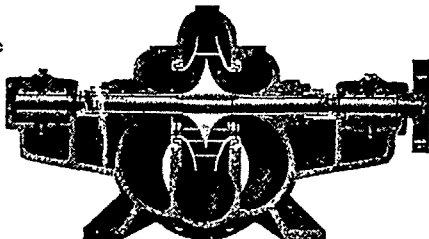
One of 9 Geared Turbine Driven D. C. Generating Units Supplied to the Detroit Edison Company, 4000 Kw. Each, Use Steam at 375 Lbs. and 700° F.



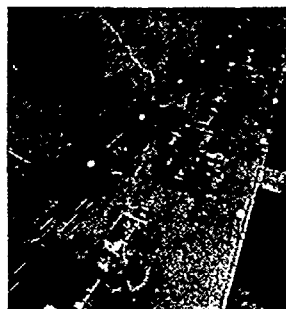
Double Helical Speed Reducing Gear



Back to Back Multistage Centrifugal Pump



Single Stage Pump



Four Geared Steam Turbine Driven Centrifugal Pumping Units 75,000,000 Gal. per Day Each Against 150 Ft. Head

(See page 324 for additional products of this Company)

The De Laval Labyrinth Wearing Rings assist materially in maintaining the original efficiency of De Laval pumps and do not require small clearance in order to prevent excessive leakage. Their life is much longer than that of flat rings.

De Laval Boiler Feed Units are designed, manufactured and tested completely in one plant and under the supervision of one staff of engineers and are sold and guaranteed by one organization. Special designs for modern high pressures, with solid diaphragms separate from casing, avoiding internal leakage.

The De Laval Type F Pumps are made from high grade materials on a limit-gage basis and all parts are interchangeable. They are recommended for contractor's, agricultural and industrial uses as most reliable small pumps. Cap. from 1 in. pipe, 10 ft. hd., 5 g. p. m. up.

CENTRIFUGAL BLOWERS AND COMPRESSORS:

De Laval Centrifugal blowers and compressors are built single stage and multistage, and for motor or turbine drive, for all pressures up to 100 lbs. per sq. in.

FLEXIBLE COUPLINGS:

De Laval rubber bushing flexible couplings have been developed and standardized by over twenty years' use in connection with high speed and moderate speed machinery and are manufactured on an interchangeable basis by modern limit-gage methods. Stocked 1½-12 in.; others to order.

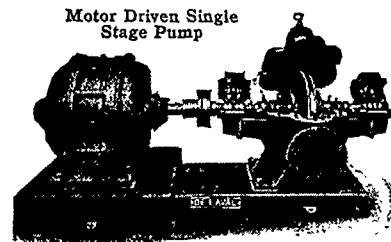
WATER TURBINES:

Small and medium capacities. For driving auxiliaries in water works pumping stations they are more economical than electric motors or small steam turbines. From 1 to 200 hp.

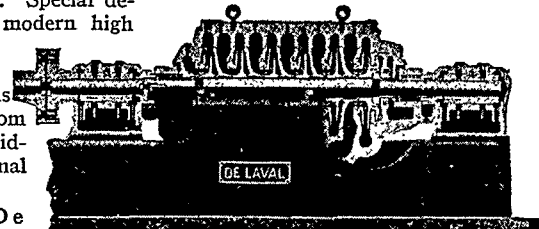
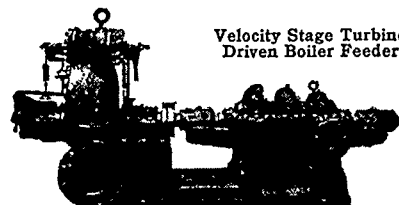
GUARANTEES:

All De Laval apparatus is built on a limit gage, interchangeable basis. Finished repair parts are supplied, made to accurate dimensions, so that they can be installed in the machine without requiring to be fitted. The performance of every machine is guaranteed, both as to capacity and efficiency, and a complete test is carried out before shipment.

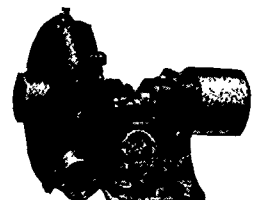
Motor Driven Single Stage Pump



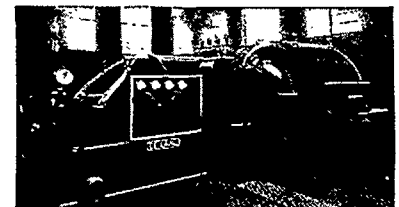
Velocity Stage Turbine Driven Boiler Feeder



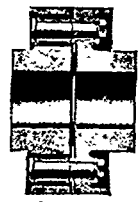
High Pressure Boiler Feed Pump, Has Solid (not split) Diaphragms, Is Hydraulically Balanced and Runs at Moderate Speed



Type F Centrifugal Pump Arranged for Belt Drive



Turbine Driven Blast Furnace Blower, 60,000 Cu. Ft. per Min. Against 30 Lbs. per Sq. In.



Flexible Coupling

Mechanical Catalog

Consisting of uniformly presented and illustrated catalog
information, conveniently classified, describing the
products of manufacturers of mechanical equipment

with

DIRECTORY OF MANUFACTURERS
OF INDUSTRIAL EQUIPMENT,
MATERIALS AND SUPPLIES

A specialized, classified and cross-indexed list
with names and addresses inserted free of charge

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