

Centrifugal Pumps for Water Engineering

WATER



**Marelli
Pumps**

C³ : CREDIBILITY, CONFIDENCE, COST-EFFECTIVE SOLUTIONS

Marelli Pumps is an independent private company located at Illescas (Toledo), with more than 40 years of experience in the technology applied to the design, manufacture and service of centrifugal pumps for the markets of applied engineering and under specification. Marelli participates in projects all around the world where the criteria of reliability, technology and technical support are decisive for the election of a manufacturer of pumping systems made to size.



DESALINATION

Marelli Pumps has developed the most complete range of pumps used in desalination systems.

From the sea water taking with great flow and low or medium pressures to the high pressures pumps, Marelli offers a wide range of performance with flows of 20.000 m³/h and pressures of 1080 meters of water column.



Pump Types

- Single stage horizontal axial split case pump (**PDH**)
- Multistage horizontal radially split pump (**TKI/TKO**)
- Multistage horizontal split case (**DVMX**)
- Double suction vertical pump (**FQ**)
- Mixed flow single stage and multistage vertical pump (**FG**)
- Normalized DIN 24256 (**ND**)

DESIGN CRITERIA

For this application, the important part of the developments is orientated to ensure the continuous operation of the plant with high efficiency. The election and use of the materials such as duplex and super duplex, ensure high levels of reliability and operation, suitable for this application.



Supply, SANITATION AND WATER TREATMENT

The technology in water treatment and its use by societies more developed every day, have caused an increase in the levels of technology required in all the equipments.

Thus, Marelli pumps matching such approach to this kind of specialized clients, has created ranges of centrifugal pumps with tailored solutions.

For this market Marelli designs and manufactures pumps up to 42.000 m³/h and pressures up to 500 meters of water column.

Pump Types

- Single stage horizontal axial split case pump **(PDH)**
- Double stage horizontal split case pump **(PDHH)**
- Multistage horizontal radially split pump **(TKN/TKI)**
- Double suction vertical pump **(FQ)**



- Double suction vertical pump with mixed flow stages **(FQX)**
- Mixed flow single stage and multistage vertical pump **(FG)**
- Normalized DIN 24256 **(ND)**
- Normalized DIN 24255 **(NEI)**



DESIGN CRITERIA

The improvements introduced within the design of this type of pumps are orientated to increase the life of pumps, defining double mechanical seals in the application of loaded waters and package in those cases that greater maintenance is required.

The materials for these applications are based on the GG25 casting, being the analysis of pumped water what marks the use of one or another material, up to AISI 904L. with the most strict uses.

IRRIGATION AND TRANSPORT

Marelli has developed technical solutions with easy installation and low maintenance to ensure the lowest costs of the useful Life Cycle Costs (LCC) of the pumps. This design permits the final client to have a preventive maintenance programs with a low investment and high performance in the station without failure.

Marelli gives the solution PDVH (vertical split case pump), which permits to have a lower cost in the civil engineering, because it is a compact mechanic solution and it builds a more reliable equipment not having to use the coupling motor.

With a capacity of design up to 15.000 m³/h and pressures up to 400 meters of water column, Marelli gives solutions coherent design with the applications for this market.



Pump Types

- Single stage vertical split case pump **(PDHV)**
- Single stage horizontal split case pump **(PDH)**
- Double stage horizontal split case pump **(PDHH)**
- Multistage horizontal radially split pump **(TKN)**
- Double suction vertical pump **(FQ)**

- Double suction vertical pump with mixed flow stages **(FQX)**
- Mixed flow single stage and multistage vertical pump **(FG/FV)**
- Normalized DIN 24256 **(ND)**
- Normalized DIN 24255 **(NEI)**

DESIGN CRITERIA

In irrigation and transport, pumps that working in a discontinuous regime have a high maintenance are valued, being simple machines with a low maintenance costs. The pumps are designed with a heavy duty endurance criterion and mechanic simplicity, installing in most of the cases gland packing more than mechanical seals to increase the MTBF and to soften MTBR.

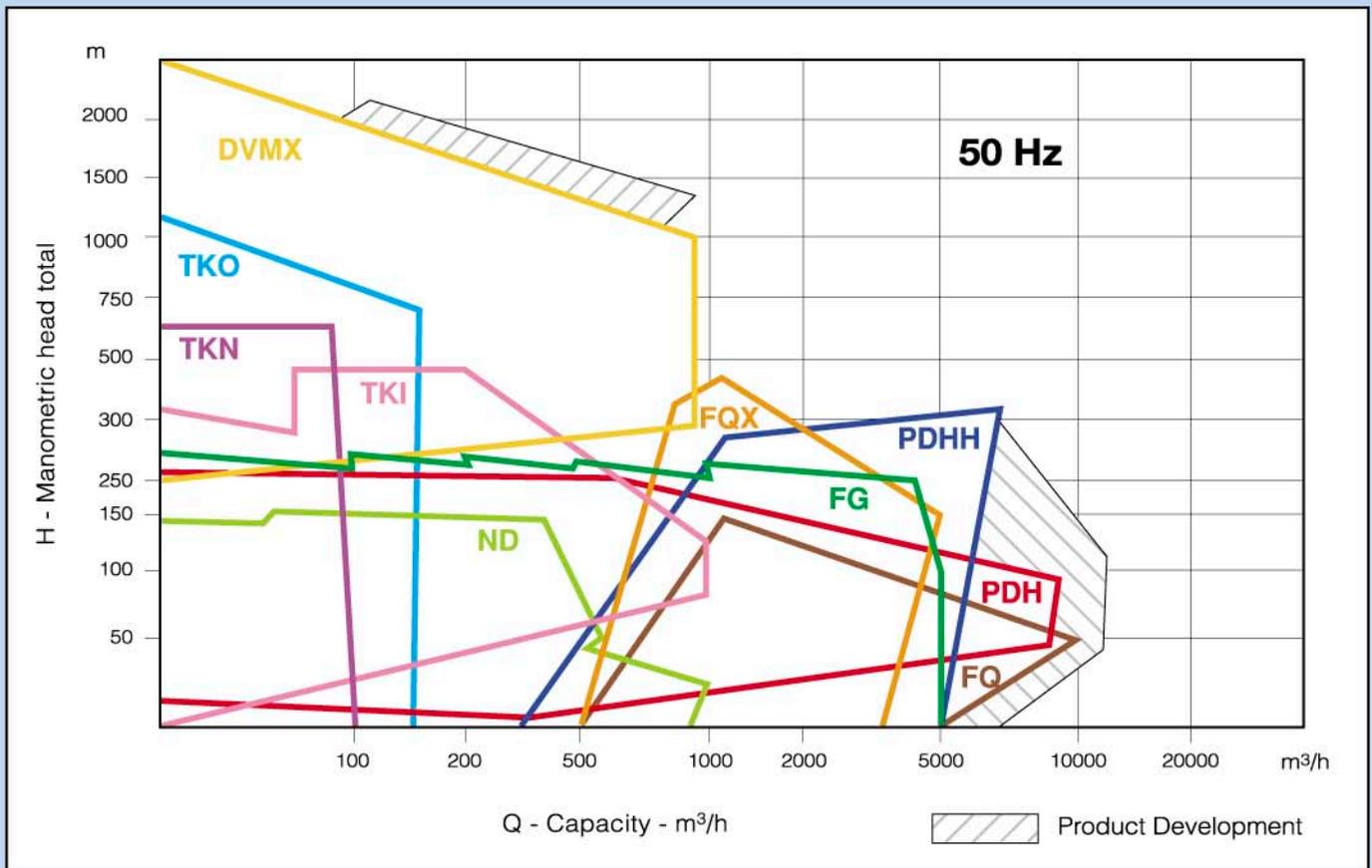


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MANUFACTURING, DESIGN AND PROJECTS CONSTRUCTED



PRODUCT COVERAGE



Bombas Ercole Marelli, S.R.L.

Ctra. Madrid-Toledo, Km. 30,8
45200-ILLESCAS (Toledo)

www.marellipumps.com

Tel.: +34 925 511 200

Fax: +34 925 511 600

marellipumps@marellipumps.com

Branch Offices:

Andalucía

Tel.: +34 954 574 361

Fax: +34 954 577 606

marelli.andalucia@marellipumps.com

Cataluña

Tel.: +34 932 327 261

Fax: +34 932 658 694

marelli.catalunya@marellipumps.com

Levante

Tel.: +34 965 228 648

Fax: +34 965 228 649

marelli.levante@marellipumps.com

Aragón

Tel.: +34 976 460 182

Fax: +34 976 460 181

marelli.aragon@marellipumps.com

Centro

Tel.: +34 925 511 042

Fax: +34 925 511 600

marelli.centro@marellipumps.com