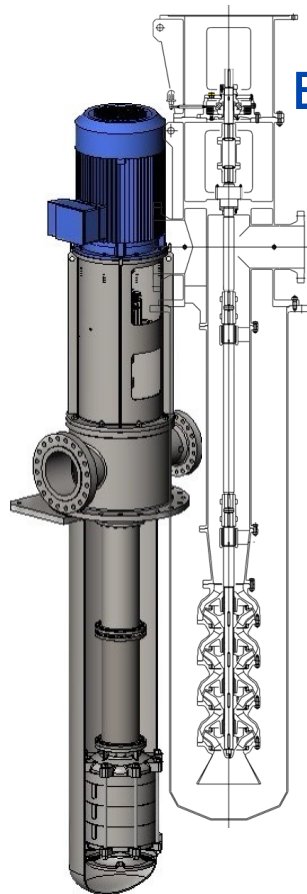


# BROCHURE OGV-B SERIES



**BIRAGHI POMPE 1906**

- *ITALIAN QUALITY*
- *SINCE 1906*

**OGV-B API 610-VS6 BARREL PUMPS**



2025



## OGV-B SERIES—BIRAGHI POMPE 1906

### OGV-B PROCESS PUMP

#### General Description

Type OGV-B are vertical, heavy duty process pumps.

Mixed-flow pumps that can operate at different rotating speeds to show their fully potential.

OGV-B are also available in full compliance with API 610 standards, latest edition.

#### FEATURES DESIGN—PUMP CASE

This modular-element design is optimised through hydraulic, structural, thermal and dynamic analysis to guarantee high product reliability.

A wide range of sizes, number of stages and material combinations complete the variety of the offered products also making customization possible upon customer request to produce pumps to satisfy specific requirements, incorporating different quantities of the main parts, without compromising the other constructional elements that are indispensable to obtaining effective compatibility with the specific technical needs of a very large range of services.

For this reason two further types of constructional characteristics have been developed: one involving the shapes of the pump's constructional parts, and the other involving the shapes to be given to the upper part of the pump and the suction side.

These shapes, when combined, allow us to obtain a series of solutions adaptable to the type of installation.

#### Rotation

Rotation is counterclockwise when viewed from the coupling end.

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### Bearings and Lubrication

The pump's axial thrust is absorbed by a rolling bearing, incorporated in the support inside the motor casing or the motor itself. If necessary, cooling can be provided also by water.

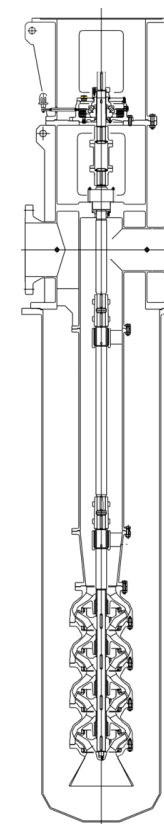
Column pipe is composed of a flanged pipe and contains a hub to house the bearings and can contain, co-axially, a protection pipe to allow lubrication with the pumped liquid or from an external source.

The first critical frequency of the transmission shaft is located above the pump speed.

### APPLICATION

- ⇒ Oil & Gas
- ⇒ Fluid transportation
- ⇒ Pipeline
- ⇒ Hydrocarbon booster
- ⇒ Condensate extraction

|                      |                            |
|----------------------|----------------------------|
| Capacity             | to 2000 m <sup>3</sup> /hr |
| Head                 | to 1000 m                  |
| Max working pressure | to 100 bar                 |
| Temperature          | to 150 C°                  |



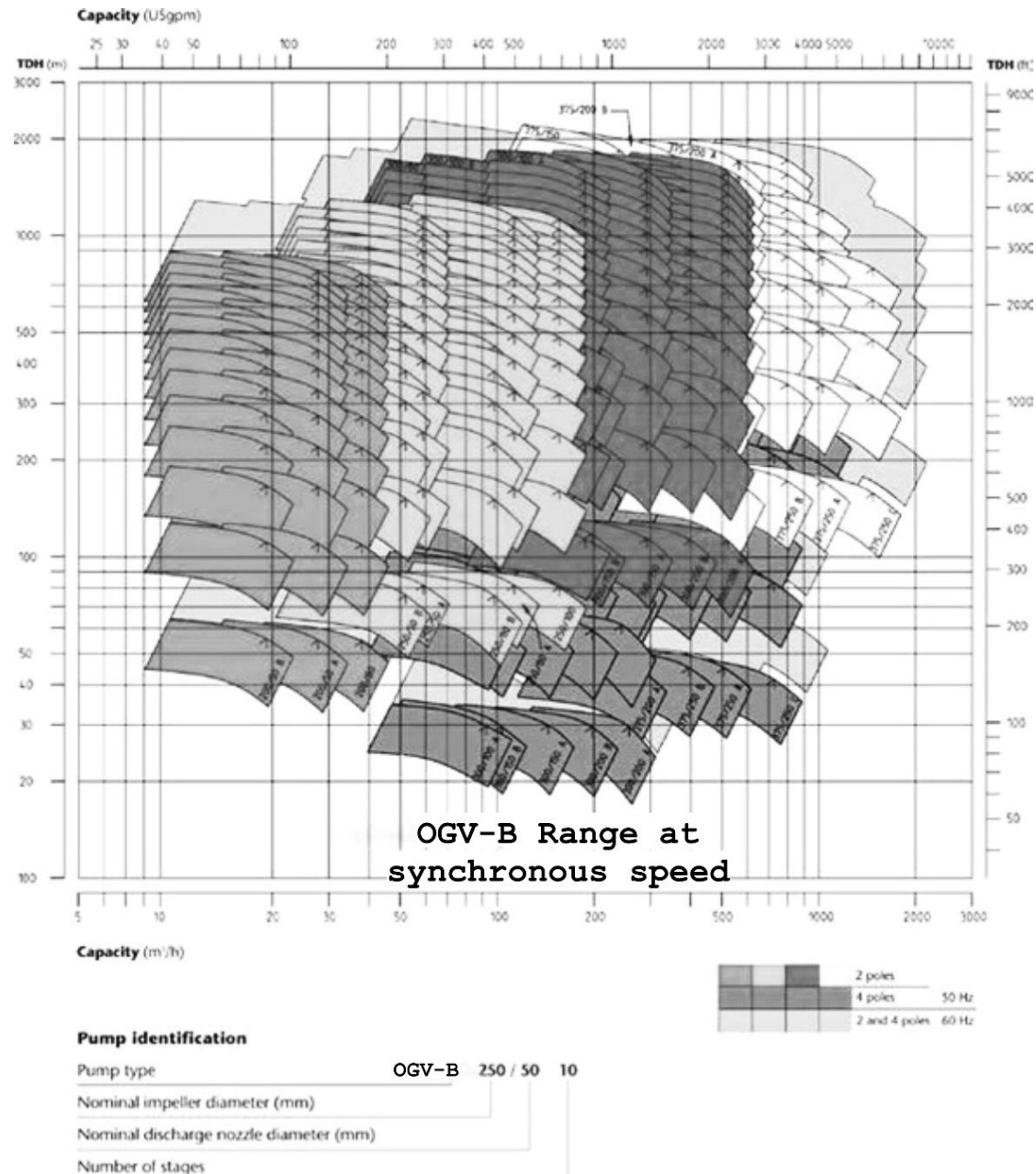
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The pumps designs can be provided with this standard options:

- ⇒ Air fan cooling system provided on bearing bracket and/or mechanical seal when required by hot temperature applications.
  - ⇒ Additional rigid coupling to facilitate mechanical seal maintenance activities.
    - ⇒ Inside drain line.
  - ⇒ Axial thrust tilting pad bearings for ultra high thrust operating condition.
    - ⇒ Anti reverse rotation device.
  - ⇒ Special bearing isolators at both bearing housing ends.
    - ⇒ Oil mist lubrication (pure or purge)
- ⇒ Labyrinths and deflectors at both bearing housing to maximise protection against dirt
  - ⇒ Number of stages rangeable from 1 to 14
- ⇒ Pump shaft in one or two pieces, fully machined to respect the more restrictive run-out API limits.
- ⇒ Air fan cooling system provided on bearing bracket and/or mechanical seal when required by hot temperature applications
- ⇒ Rotor axial thrust support ball angular contact type
- ⇒ Renewable bushings provided by a duplex oil lubricated bearing as a standard.
- ⇒ ded at all interstage casings



# OGV-B SERIES—BIRAGHI POMPE 1906



Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



*Biraghi*  
**POMPE1906**

Via della Giardina 11  
Monza (MB)  
20900:

Contacts:  
+39 02-89680866  
[info@biraghipompe1906.it](mailto:info@biraghipompe1906.it)

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