



Gruppo Aturia  
  
**TK, TKR, VTK**

## MULTISTAGE PUMP

## GRUPPO ATURIA

**Suction** DN 40 – 300  
**Discharge** DN 25 – 250  
**larger sizes on request**  
**Q** up to 840 m<sup>3</sup>/h  
**H** up to 630 m  
**p** up to 64 bar  
**T** max. 130 °C  
**Ambient T** max. 40 °C  
**Speed** 1500, 3000 rpm

**Type:** Horizontal or Vertical multistage, high-pressure centrifugal pump

**Liquid type:** Clean water

**Application:** Boiler feed pump, other high pressure applications

**Materials:**

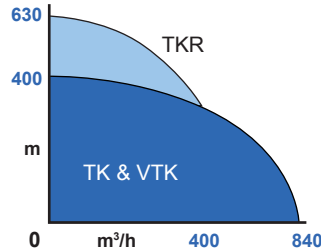
**Casing** TK & VTK: Cast Iron GG25  
 TKR: Nodular Cast Iron  
 all option: Stainless Steel

**Impeller:** Cast Iron GG25, Stainless Steel, Bronze

**Sealing:** Gland Packing, Mechanical Seal, High Temperature Mech.Seal

**Impeller Design:** Radial Impeller

**Motor:** up to 700 kW  
 larger on request



Gruppo Aturia  
  
**VAB, VABX, TKV, PAG**

## TURBINE PUMP

## GRUPPO ATURIA

**Column Ø** DN 90 – 360  
**Discharge** DN 80 – 300  
**Q** up to 2200 m<sup>3</sup>/h  
**H** up to 400 m  
**Ambient T** max. 60 °C  
**Speed** 1500, 3000 rpm  
**larger on request (PAG)**

**Type:** Vertical Turbine Pump

**Liquid type:** Soiled water

**Application:** Deep well, water intake, irrigation, drainage, flood prevention

**Materials:**

**Motor Support:** Cast Iron

**Pump Stage:** Cast Iron

**Impeller:** Cast Iron

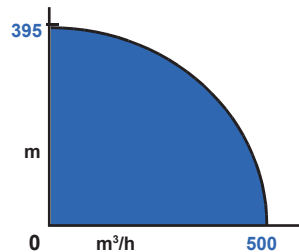
**Axis Line:** Steel

note: other materials on request

**Impeller Design:** Radial Impeller

**Motor:** up to 560 kW

larger on request



Gruppo Aturia  
  
**NA**

## SINGLE STAGE PUMP

## GRUPPO ATURIA

**Construction:**

- NA Pumps, centrifugal single stage horizontal, are designed according to DIN 24255 standards, in order to have maximum interchangeability between components.
- The impeller is dynamically and hydraulically balanced.
- The shaft is duly oversized to guarantee required stiffness and it is supported by grease lubricated sturdy ball bearings.
- Mechanical seal.

**Materials:**

**Pump casing:** Cast Iron

**Impeller:** Cast Iron

**Casing cover:** Cast Iron

**Bearing housing:** Cast Iron

**Pump shaft:** Stainless Steel AISI420

**Mechanical Seal:**

Silicon Carbide/Silicon Carbide/NBR

**Characteristics:**

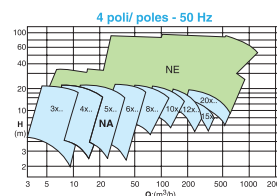
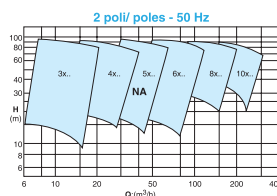
**Capacity** up to 600 m<sup>3</sup>/hr

**Dynamic head** up to 95 m

**Max. suction press.:** 4 bar

**Max. operating pressure:** 10 bar

**Working temp.** from -10 °C to +130 °C



## GRUPPO ATURIA

### Construction:

ND are single centrifugal pumps with hydraulically balanced impeller, volute casing with end suction and top radial delivery, shaft with mechanical seal. The impellers, developed to be highly efficient, guarantee the most economic service.

Standardisation of the common parts to a very high degree simplifies spare parts storage.

The UNI 2223/29 PN 16 pipe flanges are used for the standard construction; on request flanges according to ANSI 150 RF

### Field of application:

- Industry
- Petrochemical plants
- Chemical plants
- Hot pressurized water
- Transport
- Distribution
- Dowtherms
- Oil service
- Refinery
- Marine

## SINGLE STAGE PUMP

### Materials:

- All parts in contact with pumped liquid are in stainless steel AISI 316.
  - Bearing housing in cast iron.
  - Pump shaft in St. Steel AISI 316.
- On request we can supply pumps in different metallurgies relative to the pump liquid

### Characteristics:

- Delivery: up to 1400 m<sup>3</sup>/hr
- Total head: up to 140 m
- Max. work pressure: 20 bars
- Temperature: from -50 °C to +250 °C
- Max. speed: 3500 r.p.m.



ND



## GRUPPO ATURIA

### Construction:

The pump casing, split along the shaft axis, allows easy inspection and replacement of the rotating section. The position of inlet and outlet nozzles (in the lower half case of horizontal pumps or in the rear half case of vertical pumps) allows inspection and repair without removing the pump from its position.

### Materials:

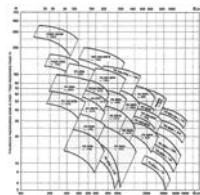
- Pump casing - cover: cast iron G25.
- Impellers: cast iron G25 or bronze BSZN5.
- Wear rings on pump casing: bronz or steel AISI 304.
- Shaft: steel C40.
- Shaft sleeves: steel AISI 420.
- Glands bushes: bronze.
- Packing ring: teflon rope.
- Gland: cast iron G25
- Bearings: high quality roller bearings.
- Bearing housing: cast iron G25
- Flexible coupling: cast iron with rubber inserts or with steel rods and rubber bushings. Dynamically balanced.

## SPLIT CASE PUMP

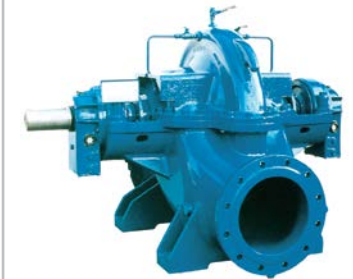
PD: Single stage, double suction, with horizontal shaft.

### Field of application:

- These pumps are used in civil, industrial and farming facilities, especially for
- aqueducts
  - irrigation
  - steel works
  - building yards
  - thermal power plants
  - sugar works
  - air conditioning
  - paper mills
  - fire fighting



PD



## GRUPPO ATURIA

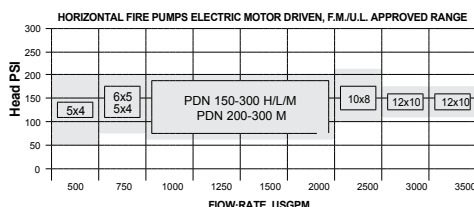
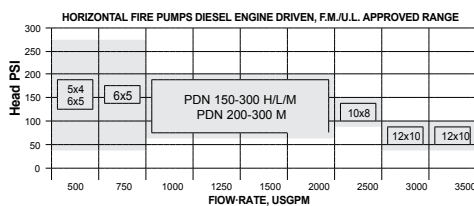
## FIRE FIGHTING SET

FM Approved  
EN 12845e

NFPA20 Approved  
EN 12259-12



### Horizontal Split case Range



### Vertical Turbine Pump Range

