



*fluidity.*  
**nonstop**

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING



**Water Movement**

 **AXFLOW**



# *fluidity.* nonstop

IT'S ABOUT KEEPING YOUR PROCESSES RUNNING

## About AxFlow

Part of Axel Johnson AB with sales of over 7 billion euro and 20,000 employees worldwide, the AxFlow group is one of Europe's largest suppliers of process pumps with a presence in 28 European countries, South Africa, Australia and New Zealand.



AxFlow has developed *fluidity.nonstop* a concept through which we provide products and services that encompass all aspects connected with the smooth running of process pumps.

## AxFlow in the UK

In the UK, AxFlow has over 70 years history and operates from 5 locations across the country from which we supply a multitude of process pumps and a range of pump service and repair packages.



# Service in the UK

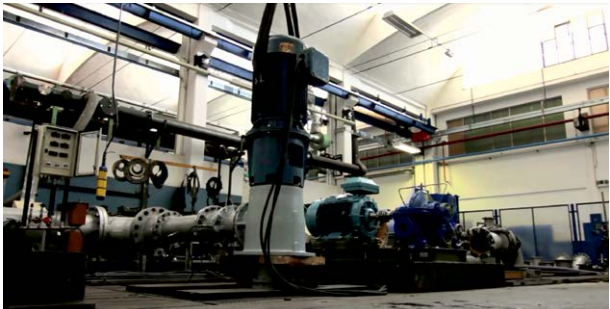
We have the ability to handle up to 20 tonnes, and test pumps in all of our service centres which make us able to work with the very largest of pumps.



Gruppo Aturia is the oldest pump manufacturer in Italy tracing it's routes back to 1889. The company has four manufacturing facilities in Italy and France. Aturia is a global pump supplier to the utilities, process, defence and oil/gas markets.



Gruppo Aturia are one of the leading manufacturers of large pumps and in particular vertical mixed flow, axial and radial flow pumps. They supplied all of the pumps to the Venice from flood protection scheme and the pumps used by the Sudanese government to redirect part of the Nile River.





Axial Flow



Centrifugal

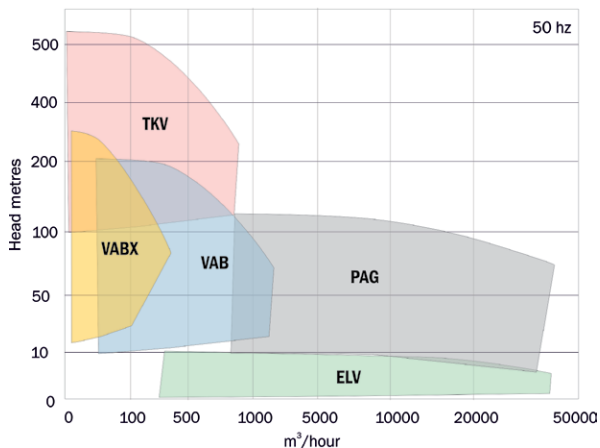


Mixed Flow

## Gruppo Aturia Semi-Submersible Pumps

Gruppo Aturia have been making vertical pumps since the 1890's and remain at the forefront of the industry. The Aturia range of vertical pumps includes semi-submersible cantilever pumps and submersible pumps and utilises centrifugal, mixed flow (turbine pumps) and axial flow pump technologies.

Applications for our Aturia vertical pumps include: Seawater lift pumps, borehole pumps, fire fighting pumps and drainage pumps.



### VAB - VABX

The VAB and VABX ranges are multi-stage mixed flow (turbine) pumps to API 610 VS1 and VS6 when barrel pumps.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Mixed Flow 25 bar Viscous 50 cP +90 °C 0 °C ATEX Certified API 610 VS1

### TKV

The TKV range are multi-stage radial flow (centrifugal) pumps to API 610 VS1 and also VS6 when barrel pumps.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Centrifugal 64 bar Viscous 50 cP +90 °C 0 °C ATEX Certified API 610 VS1

### PAG

PAG pumps are high flow mixed flow (turbine) pumps to API 610 VS1, VS2 and VS6 when barrel pumps.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Mixed Flow 25 bar Viscous 50 cP +90 °C 0 °C ATEX Certified API 610 VS1

### ELV

ELV are single or two stage axial flow pumps to API 610 VS3 and VS6 barrel pumps.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



Axial Flow 25 bar Viscous 50 cP +90 °C 0 °C ATEX Certified API 610 VS1



Centrifugal

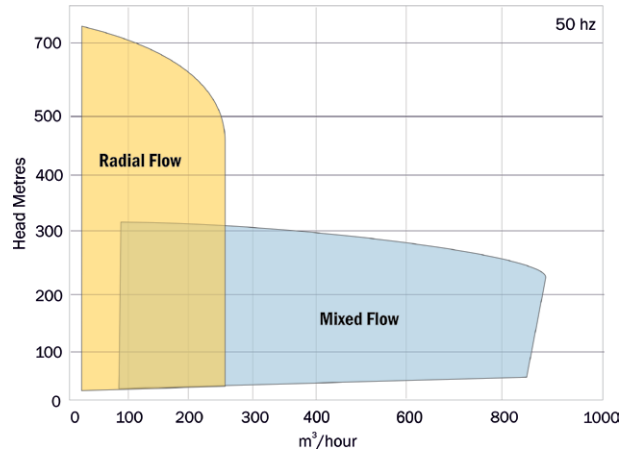


Mixed Flow

### Gruppo Aturia Submersible Pumps

An extremely comprehensive range of fully submersible pumps including both mixed and radial flow models. They are available in sizes from 6 to 14”.

- Designed with the minimum number of wearing components.
- Impellers are dynamically balanced and splined to the shaft.
- The shafts are driven by coaxial bearing bushes and protected by sleeves.
- All the pumps are provided with NRVs.



### Mixed Flow

Mixed flow submersible pumps can be fitted with standard Aturia 400v and 690v motors or purpose made MV and HV motors.

- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



### Radial Flow

Radial flow (centrifugal) models are available in sizes from 6” to 12” for low flow high head applications.

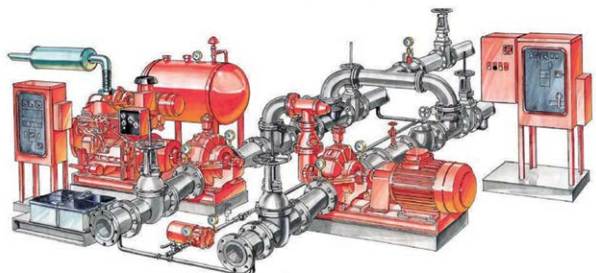
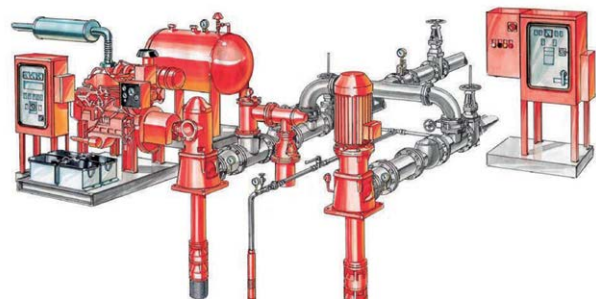
- Cast Iron
- Carb Steel
- St Steel
- Bronze
- Duplex
- S Duplex



### Fire Fighting Systems

Audoli & Bertola” is a division of Gruppo Aturia and operates exclusively in the fire fighting field as supplier of water fire fighting packages in compliance with the European Standards (EN 12845 e EN 12259-12) and the American Standards (NFPA 20).

Audoli & Bertola is the only Italian pumps manufacturer to have obtained from “Factory Mutual” the approval for its vertical turbine pumps and split case pumps for a range of capacities from 500 USGPM to 3500 USGPM, at 50 ÷ 60 Hz and Diesel Driven. ATEX: Packages and Pumps for Atex Classified area are available for Electrical Pump and Diesel Engine Driven Pump Fire-Fighting services.



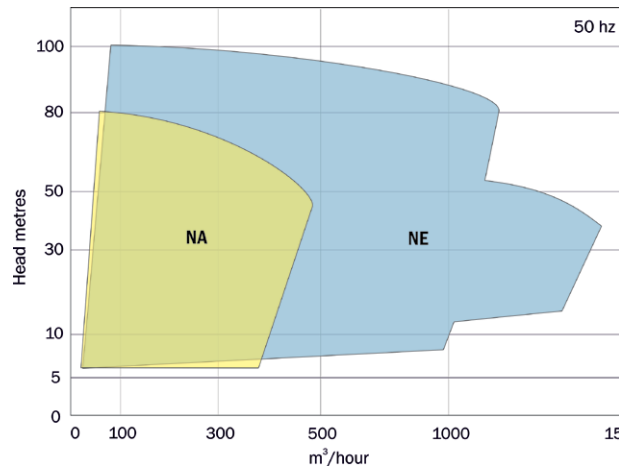
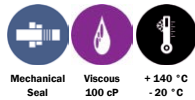


## Centrifugal

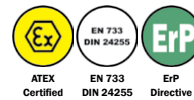
### NA and NE

The NA and NE ranges are long coupled pumps to DIN24255-EN733-UNI 7467. They have oversized shafts with oil lubricated ball bearings along with balanced impellers. The NE range offers ATEX approval.

Cast Iron  
Bronze  
St Steel



- Many sizes ex-stock.
- High efficiency & low NPSHr.
- CI with optional SS and Bronze impellers.
- Available with a range of seals.



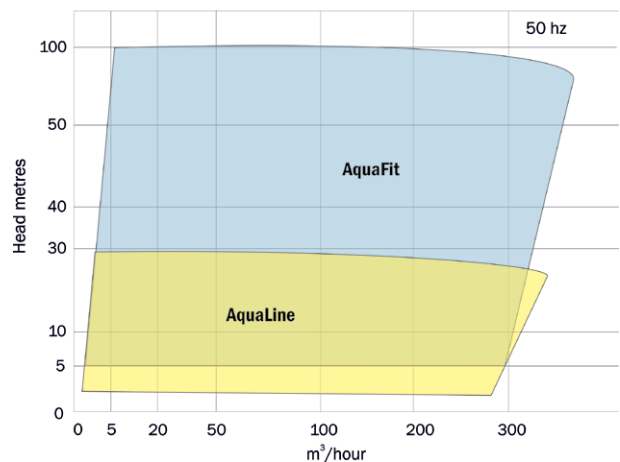
### AquaRange

The AquaRange of mono block pumps is made up of :

- **AquaFit** single stage end-suction pumps to DIN 24255.
- **AquaLine** inline vertical pumps available as either a single or double construction.

All pumps meet the required efficiencies of the **ErP** Directive.

Cast Iron  
Bronze  
St Steel



- Dynamically balanced impellers.
- Cast iron, bronze or stainless steel impellers.
- Low NPSH requirements.
- High quality castings.
- Compact construction.
- Designed and manufactured to ISO 9001.
- Short delivery times.
- A choice of connection types.



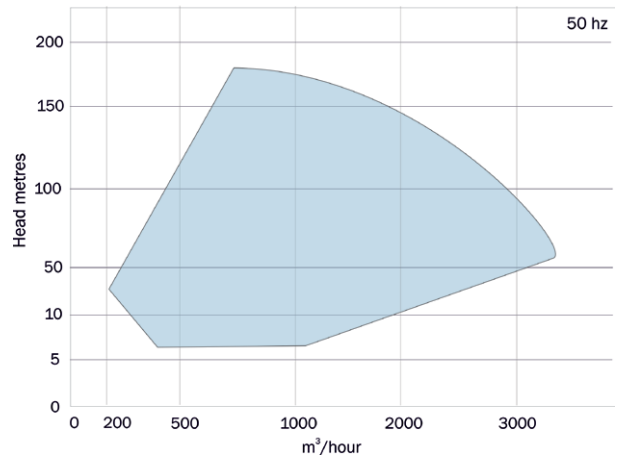
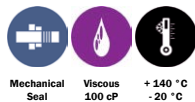
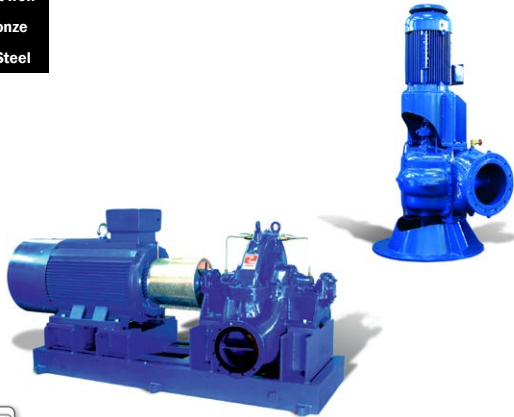


## Centrifugal

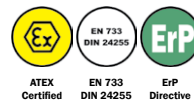
### PD

Robust split case, double suction pumps available in either horizontal or vertical configurations. The position of inlet and outlet nozzles (in the lower half case of PD horizontal pumps or in the rear half case of PDV vertical pumps) allows inspection and repair without removing the pump from its position.

Cast Iron  
Bronze  
St Steel



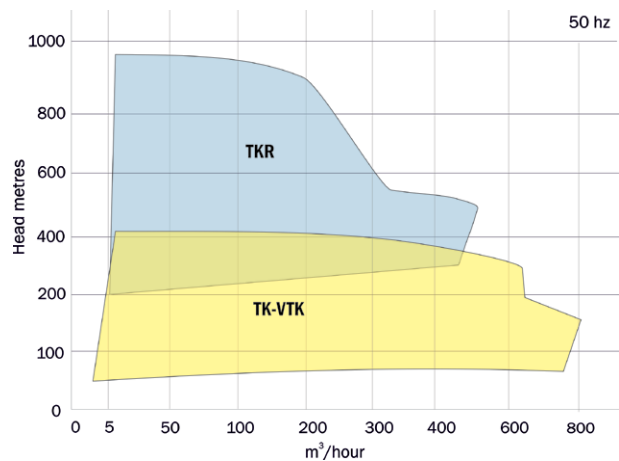
- Replaceable shaft sleeves.
- Pump body in CI optional steel or ductile iron.
- Impellers CI optional DI and SS.
- Grease or oil lubricated roller bearings.
- Gland packing or a range of mechanical seals.
- Many models available to API 610.



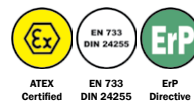
### TK-VTK-TKR

A comprehensive range of horizontal and vertical multi-stage boiler feed pumps designed to ISO 9908 and ISO 9906 deg 2. All models can conform to the latest ErP directive requirements.

St Steel  
Carb Steel  
Cast Iron



- Oversized shaft.
- Double, oil lubricated ball bearings.
- Dynamically balanced impellers.
- High efficiency & low NPSHr.
- CI with optional SS and Bronze impellers.
- Available with a range of seals.





## We Get Your Pump Working To Your Needs

The long term performance and operating costs of a pump can be significantly affected by how well it's been installed.

Can you be certain that the pump is doing the job you asked it to do? If it isn't, then you might not get what you're expecting or the pump might not last as long as you'd envisaged.

Our installation and commissioning services can ensure that the pumps are working properly and according to the process needs.



### WHAT WE OFFER

Our pump installation and commissioning services can be as comprehensive or as simple as you want.

- Comprehensive pre delivery inspection
- Pre-delivery performance and run tests
- Delivery to site
- Accurate alignment of pump sets by means of laser equipment
- Correct pump start-up
- On site performance verification
- Clarification of the actual duty
- Initial logging of pump characteristics such as noise, power consumption and vibration
- Optimised pump set-up
- On site training of maintenance operatives

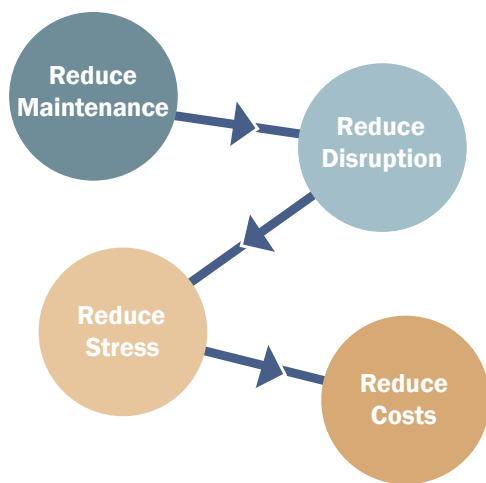




## Reduce Your Cost With Good Pump Monitoring

Monitoring your pumps is absolutely essential if you want to reduce expensive pump repairs and avoid unexpected pump failures. But, in addition to this, monitoring your pumps will prolong their life, help identify problems somewhere else in your system and reduce your power consumption by keeping them at their optimum efficiency.

We have personnel with years of pump knowledge who are also fully qualified to use the latest vibration measuring equipment.



### WHAT WE OFFER

- Scheduled site visits to measure vibration levels
- Permanent 24/7 vibration monitoring
- Bearing oil analysis
- Thermal imaging
- Planned maintenance schedule
- On site training of maintenance operatives
- Analysis of your liquids with our in-house rheology measuring equipment

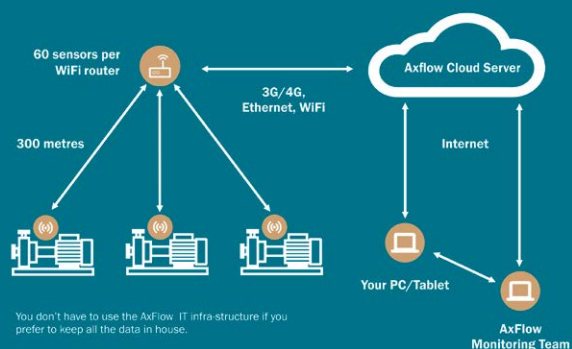
### On-site Vibration Measurement

- AxFlow offer onsite vibration monitoring throughout the uk.
- No capital outlay
- Vibration and shock pulse method analysis
- The easiest way to perform multipoint measurements
- Best way to identify hidden pump problems



### Remote 24/7 Monitoring

- State-of-the-art remote wireless monitoring
- Vibration and temperature monitoring
- Email and/or SMS alerts.
- Detailed and historical data
- Automated alerts
- Lowest long term cost
- Allows correlation between pump performance and process conditions.





## Our Service Centres Across The Country

At some point during their life all pumps require maintaining or repairing.

At AxFlow we have Service Centres spread across the country equipped with an impressive array of engineering equipment and test facilities.

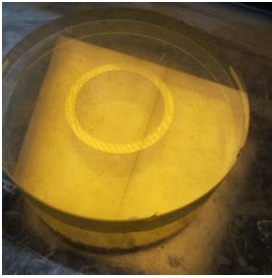


### WHAT WE OFFER

All of our repair and maintenance work is fully documented as would be expected of a company such as AxFlow.

- Machining in-house
- Belzona coating
- Dynamic balancing
- Mechanical seal overhaul
- Metal spraying and fusion welded coatings
- Laser alignment
- Hydrostatic pressure testing
- Motor rewinding
- Hygienic pump repair
- The ability to re-engineer a wide range of pump components
- On site training of maintenance operatives





### Dynamic Balancing

Vibration caused by wear of impellers can be a big factor in early pump failures. AxFlow can balance rotating assemblies up to 1.5 tonnes to ISO 1940 G1. As a minimum standard, we balance to G2.5 (maximum 2.5mm/s).



### Laser Alignment

Using the latest Laser Alignment instrument and software we can align your pump and motor with greater accuracy than the coupling manufacturers recommendation to ensure correct coupling alignment to maximise bearing and mechanical seal life.



### Re-engineered Components

With many manufacturers having ceased production replacement parts may have become impossible to get, as a result we have become experts in the re-casting and machining of obsolete pump components.



### Mechanical Seal Refurbishment

We are specialists in the refurbishment of mechanical seals from chemical/ food pumps to chemical reactors and mixers. We can handle sizes from 25 to 330 mm shaft size. Consequently, we have extensive lapping and ceramic/ carbide face manufacturing facilities.



### Belzona Coating

Using the Belzona range of polymeric and elastomeric coatings we can offer a solution to most problems from repair of a badly worn component, to prevention of erosion/corrosion of a new part. Coatings can be applied on site or off site depending on the size of job and access restrictions.



### In-House Machining

We boast an impressive array of engineering equipment spread across our 5 Service Centres. This allows us to react quickly and ensure the quality of our work is maintained.

### In-House Paint Plant

We have invested in our own paint plants that allow us to ensure the quality of our paint finish and the ability to offer a range of specialised finishes.



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*fluidity.nonstop*® is our promise and our commitment to offer service, product quality, performance and expertise the like of which has not been seen before. We are Europe's leading source of pumps and pump expertise for the process industry and we intend to maintain that position by working fluidly, and ceaselessly, to bring you the best.