

## Success Story

## Astramatic Fibracolor

### **CEPEX supplies ASTRAMATIC with 865 valves for the works on the Fibracolor water Regeneration and Recycling Plant (RRP)**

Industrial water recycling is essential for a sustainable management of the environment and its natural resources. Therefore CEPEX designs its products as an integral element of this sustainable management and has implemented various policies aimed at reducing the environmental impact of its products, installations and industrial processes. CEPEX is continuously developing new ways of minimizing product residues, reducing its emission of greenhouse gasses and preventing any contamination resulting from its activities.

#### **THE CLIENT**

Astramatic is an engineering and consulting company with more than 30 years of experience, Astramatic designs, builds, manufactures and maintains industrial process water treatment plants adapted to all needs and situations. Astramatic know-how and efficiency are the keys for water potabilisation (drinking water) and the tertiary waste water treatment for its reusing after neutralisation. The conception and construction of water treatment plants on a turnkey program basis enables Astramatic to be a specialist with a high capacity to adjust its competence to any customer's wishes or necessities and to fulfill the needed conditions matching any requirement or law specifications. Astramatic's projects add value to its client's operations and are fully customized to the client's needs.

#### **THE PROJECT**

In the middle of 2007 work started on the Fibracolor's RRP, an important Spanish textile tinting company, in which Astramatic had decided to install PVC valves and accessories from the CEPEX range of products. The goal is to use this treatment plant for tertiary waste water treatment of EDAR, a reversed osmosis purifying plant for waste water in Tordera (Barcelona, Spain). The water treatment is divided in 4 different phases; main pumping, filtering, ultra filtering and reversed osmosis. The RRP will recycle the water, that currently is pumped into the water exhausts used by Fibracolor's other industrial facilities, treating it to the 4-phase treatment and preparing it for reuse, thereby reducing Fibracolor's overall water consumption. Thanks to the RRP a more sustainable water management is achieved.

With each 4-phase treatment process, 600m<sup>3</sup>/h of water can be recycled and the plant is projected to be fully operational by the summer of 2008. When finished it will be the first industrial RRP in Spain and the second one in Europe using an integral 4-phase recycling process. Moreover, the whole installation is operated by PLCs (control centers) that, using touch screens, can control the movements of all water conduits and valves.

#### THE CLIENT:

Astramatic

#### THE PROJECT:

Fibracolor water Regeneration and Recycling Plant (RRP) in Tordera (Barcelona, Spain)

**THE CEPEX SOLUTION: PVC valves and fittings, especially the D315 (12") butterfly valves industrial series**

PVC is used for all conduits, tubes and valves due to its high resistency against ware and tear, temprature fluctuations and corrosion. Metal corrodes easily, is much heavier than PVC and is non-recyclable besides the fact that metal tubes or conduits leave traces in the liquids they transport rendering them useless. PVC tubes and valves do not leave any trace whatsoever in the liquids they transport.

The D315 (12") butterfly valves installed belong to the new range of butterfly valves specially thought for industrial applications. The new valve has been heavy duty constructed to support the most severe conditions and to avoid corrosion problems. It is high impact resistant and UV stabilized and its lightness makes it easy to install and offers reduced handling, labour, freight and installation costs. Cepex Industrial Series butterfly valves are available from D63mm (2") up to D315mm (12") (one of the few valves available in plastic with these features), in PN10 (150 p.s.i.) with gear box, electric and pneumatic actuation options. This butterfly valve is a perfect choice with respect to plants of the chemical industry, wastewater technology, water treatment facilities and in drinking water supply systems.

Fibracolor's RRP has installed a total of 242 ball valves, 24 check valves, 288 knife gate valves and 311 butterfly valves, from which 32 are D315 industrial series.

THE CEPEX SOLUTION:

- 311 butterfly valves (from which 32 are D315 industrial series)
- 242 ball valves
- 24 check valves
- 288 knife gate
- PVC fitting for fluid handling

