



Application

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A RECOVERY SYSTEM OF DUST FROM FILTER WAS INSTALLED IN A CEMENT PLANT

Manufacturing In Italy A Dense Phase Pneumatic Conveying Of Cement Dust At High Temperature



ROSADA ILS has acquired a new contract relating to the transfer of cement dust, coming from filters and destined to silo storage.

The project consisted of a dense phase pneumatic conveying, which doubled an existing pressure vessel. For both the machines has been reviewed engineering of the line, which stretched from the original was, so that the diameters of the pipes were increased and pipe sections, diverters and line pipes with bends and wear resistant

coatings on basalt and alumina ceramic supplied. When sizing and selecting the machinery and the design philosophy, it was necessary to consider the operating temperature of the dust that the pressure vessel would receive from a feeding machine, estimated at 200° C. This aspect was critical not only against wearings, which confirmed the choice of the

dense phase pneumatic conveying, at a reduced speed compared to the dilute phase systems, but also with respect to the reliability of the equipment itself over the year and for the purposes of maintenance the less onerous possible.

In addition to the components with wear-resistant coating, field instruments have been chosen suitable for such use with strong thermal stresses. Also, account was taken of the thermal stress in sizing of pressure components subject to PED regulation and for them an increase of thickness were then expected due to wear that is expected from the operation.

A spherical dome valve Dome-RILS with high temperature inflatable seal has been installed.

One of the most critical components of the system is the inlet valve, which is the machine that more suffers the transition of the material during operation. it was clear from the phase commercial it was necessary select a valve that would ensure the functioning in critical condition without the need for frequent maintenance and replacement. Especially had to guarantee the pressure seal as conveying batch cycles



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continued over time. To do this, on the pressure vessel a spherical dome valve [DOME-RILS](#) with high temperature inflatable seal has been installed. For this component a gasket of polymeric material for high temperature has been chosen, capable of maintaining reduced hysteresis during the repeated cycles of inflation and deflation. The dome has been made in carbon steel, on which a chrome surface was executed, in order to contain wear and promote the opening and closing under an amount of abrasive hot and tendentially packing material.

With regard to the pressure vessel, a tank in carbon steel

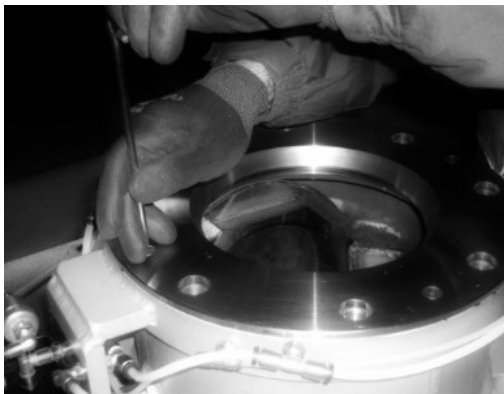
too, the model [F-PVS](#) has been chosen, whose bottom is equipped with a special fluidization which is added to the grafts tangential on the cone of discharge. This makes it easier particularly the initial starting of flow of the material at high temperature in the discharge below, without using excessive pressure which would also worsen the wear resistance of the collector itself.

The engineering is complemented by a local electropneumatic panel and a control panel that, by means of a field transmitter, allows the monitoring of the operating pressure.

IN LOMBARDY PNEUMATIC PRESSURE VESSEL AND SPHERICAL DOME VALVE

Quality And Value Added In The 0 Km Workshop

All the engineering phase, from to the specifications to layout, detail drawing from to the datasheet, lists user charges, manuals and quality control plans, were all done in house and in close and continuous contact with the customer.



The procurement activities started already during the design, in order to assess the quality of construction and speed of interaction between the company and suppliers. The result was an armature of supply at a very close range: practically the only Lombardy. He made one exception the supply of abrasion resistant lined components, for which it was considered appropriate to extend relationships abroad, whilst remaining within the EU. Except for the parts with wear resistant coating, the whole construction of the sub-components of the project was executed within less than 20 km



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from the headquarters, while in the very seat assembly operation took place and the development of the package from the mechanical, pneumatic and electrical automation point of view.

All the stages of work have affected by the beneficial effects of a regular monitoring on the territory, including a rapid expediting and logistics

that have helped improve the quality of the product without a hitch of time.

Finally it was possible to involve the customer and encourage him to take action each time that they felt the need, optimizing the relationship between the time of manufacture and the possibility of improving the final product.



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Rewarding Made In Italy



We firmly believe in the possibility of creating an Italian product in an industrial field where this tradition is gradually deteriorating.

A strategy that ROSADA ILS decided carry as a banner since its establishment.

First we believe in quality and reliability of our work, but we also believe in creating bonds that go beyond mere working relationship. If on one hand we try to build customer loyalty continually renewing the added value of our proposals, on the other we believe that the consolidation of our supplier-induced can itself become another value-added to offer to the market. Optimizing the production process that can be achieved by locating in the region that we believe has the potential than the summary reduction of price that normally it is pursuing, on the contrary, by means of the de-localization. The possibility of accurate control of the direct, personal, continuous in time relationship, so as to make not only the company but also the supplier safest and most propoitive about desired objectives in terms of product quality.

A strategy that ROSADA ILS decided carry as a banner since its establishment, with the conviction that it is the most effective way, especially satisfactory for growth. One strategy that we hope will be shared as soon as possible from the induced not only industrial but the entire system "nation".