



## **Bidachem S.p.A., Forno San Giovanni / Italy**

Bidachem chooses InterApp's application know-how and its products.





## Bidachem S.p.A. in Italy specialises in the manufacture of Active Pharmaceutical Ingredients (APIs) and intermediates for the pharmaceutical industry.

Pharmaceutical synthesis at the Bidachem facility produces vapours that need to be treated in a thermal regeneration combustor. The presence of organic chlorinates necessitated the adoption of various design factors, including an in-column oxidised gas cleaning system. The combustor had to be able to withstand the condensed acids caused by the presence of HCl and be able to cope with combustion fume temperatures that could drop below dew point.

Bidachem needed to find the best products available for this demanding environment.

Total organic carbon emissions are regulated by CE directives. The entry and exit points of the columns were therefore fitted with InterApp Bianca DN 600 butterfly valves with PTFE liner and PFA coated discs. The valves have to intercept what is an almost completely leak-tight system and are operated by InterApp's pneumatic Actuator IA Motion, running in a 2-minute cycle.

At other sensitive points, InterApp Desponia valves were installed to intercept process flow, all in the transitional phases of ignition and shutdown as well as for emergencies and safety procedures. The valves are exposed to chemical, physical and thermal stress due to the presence of aggressive contaminants in the process gases.

Working in close collaboration with Bidachem and Babcock-Wanson, InterApp's specialists defined the ideal material specifications required to withstand these extreme conditions.

InterApp's engineers then developed a solution that included an interception valve in the fractioning column, which is the most delicate point of the whole thermal regeneration combustor.



InterApp is a subsidiary of the international AVK Group and develops, produces and distributes valves and valve systems. As a customer-focused technology and project management company, InterApp supplies the most innovative fluid technology solutions for the most sophisticated applications and industry sectors in the world.

Copyright © InterApp AG, 2014  
All rights reserved.



---

## InterApp AG

Grundstrasse 24 — CH-6343 Rotkreuz

Tel. — +41 41 798 22 33

Fax — +41 41 798 22 34

info@ch.interapp.net

---

## InterApp Ges.m.b.H

Kolpingstrasse 19 — A-1230 Vienna

Tel. — +43 1 616 2371-0

Fax — +43 1 616 2371-99

info@at.interapp.net

---

## InterApp Italiana S.r.l.

Via Gramsci 29 — I-20016 Pero (MI)

Tel. — +39 02 33 93 71

Fax — +39 02 33 93 7200

info@it.interapp.net

---

## InterApp GmbH

Schillerstrasse 50 — D-42489 Wülfrath

Tel. — +49 2058 890 92 50

Fax — +49 2058 890 92 55

info@de.interapp.net