



valveIT[®]

Via Caduti di Reggio Emilia 27, 40033
Casalecchio di Reno (BO)
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ABU QIR CASE STUDY



PRO AT FLUID CONTROL





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The **Abu Qir Fertilizer Complex** consists of:

- No. 1 Ammonia Plant 1000 & No. 1 Urea Plant 1550 mtpd & No. 1 Urea Drilling Plant
 - No. 1 Ammonia Plant 1000 mtpd, No. 1 Nitric Acid Plant 1800 mtpd & No. 1 Ammonium Nitrate Granulation Plant 2400 mtpd
 - No. 1 Ammonia Plant 1200 mtpd, No. 1 Urea Plant 1750 mtpd & No. 1 Granulation Plant 2000 mtpd
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The client asked for **valveIT support** concerning problems occurred on the **hard rubber lined pipes** used for abrasive fluids. In details, damages referred to:

- Adhesion of the hard rubber on the pipes
 - Arising of several bubbles between the rubber lining and the pipe body
 - Conductivity of the rubber lined surface & failure of the spark test
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valveIT Intervention:

- Removing of the previous lined material with pyrolysis process, pipe heating & air flushing. Subsequent internal & external sandblasting of the pipe
- Application of a special chemical glue for adhesion purpose
- Application through adhesion of the new rubber
- Autoclaving process for vulcanization purpose

