



HYDRA® EXPANSION JOINTS WITH EXTREMELY LOW ADJUSTMENT FORCES

Application

Fertiliser plant in Belarus

Technical data

- Material: 1.4306
- 13 different expansion joints
(lateral, relieved from pressure, angle balanced)
- From DN 300/PN 10 to DN 1200/PN 10
- Weight: up to 3.4 tons
- Temperature: up to 470°C
- Medium: Nitrous gases,
ammonium nitrate solution

Special features

- Low adjustment forces:
For this purpose, the bellows geometry was optimised so that they have extremely low spring ratings. Likewise, the anchorages were designed with PTFE bushes in order to minimise frictional resistance.
- Corrosion protection:
To achieve a high level of corrosion protection, a material with greater nickel content (> 9.5%) than normal (8.5%) was used.
- Design:
Design according to the guidelines of the new GOST TR TS Certificate of the Russian Customs Union.



PTFE bushes on the anchorages minimize friction and thus adjustment forces



Angle balanced expansion joint



DN 800, PN 16 and 3,200 mm high. Field of activity: Motion compensation in the nitrous gas pipeline



Prior to delivery, the expansion joints are also coated with a protective paint