

Pharma: Neutralization Batch P-243

Design of Small Batch-based Neutralization Plants for handling of various industrial waste with pH-adjustment to fit the regulations for discharge.

Design package contains off:

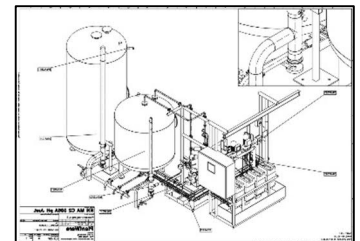
- PFD & PID
- 3D General Arrangement
- 2D Detail Arrangement
- Foundation – Concrete Design
- Vessel Design with Support for Agitators & Platform
- Mixing – Static & Agitators
- Acid and Lye System
- Pump Sizing & Selection
- Control Valve Sizing
- Emptying System
- Cleaning with CIP and Automatic Washing if applicable
- Structural Steel and Supports
- Platforms and Grating
- Access Stairs & Ladders
- Instrumentation
- MCC's and Electrical Supply
- Cabling – Power, Signal & IT
- Process Control System Specification & FDs with SCADA Specification, MES and Environmental Reporting.

For all areas manufacturing drawings will be created.

P-Engineering will use [AVEVA PDMS](#) as 3D software and [DXT-software](#) for pipe and vessel calculation.

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Pictures of a Neutralization Plant for Batch Operation. Performed as EPC and Installed and Commissioned at a Pharmaceutical Plant (DK).