

# Design Codes and Specifications

## Listing of most often used design and material specifications in the pipeline and petrochemical industry applicable to Weamco equipment

(Other materials available such as Carbon Steel, Low Temperature Carbon Steel, 304SS, 316SS and 5% Chrome Moly)

| Design and/or Material  | Specification                    |
|---|----------------------------------|
| Pipe  | ASME, ASTM, API                  |
| Flanges   | ASME, ASTM, MSS                  |
| Weld fitting  | ASME, ASTM, MSS                  |
| O-lets and forged steel fittings                                  | ASME, ASTM, MSS                  |
| Elliptical heads  | ASME, ASTM                       |
| Pressure vessel plate   | ASME                             |
| Spectacle blinds and paddle blinds/spacers                        | ASME, ASTM, API                  |
| Studs and nuts  | ASME, ASTM                       |
| Structural plate and shapes                                       | ASME, ASTM                       |
| Pipeline federal safety regulations, DOT                          | Part 191, 192, 195 Title 49      |
| Volumetric field measures   | NIST 105-3                       |
| Proving systems, pipe provers,<br>Tank provers and field measures | MPMS API Chapter 4               |
| Metering systems  | MPMS API Chapter 5 & 6           |
| Calibration calculation<br>of prover volumes (water draw)         | API Chapter 12, Section 2 Part 4 |
| Liquid pipelines  | ASME B31.4                       |
| Gas transmission pipelines  | ASME B31.8                       |
| Process/plant piping  | ASME B31.3                       |
| Unfired pressure vessels  | ASME Section VIII, Div. 1        |