

IV. STUDY OF PIPELINE ADDITIONS: THE API 510 ANALYTICAL METHODS

According Design Approach 2 of API Standard 510, 5th edition 2007, any economic simulation is required to evaluate and control pipelines in piping systems of reciprocating compressors. The pipelines represent extensions or additions of the primary pipelines in the piping system as well as modifications proposed to reduce pipelines for other expanders. The original system layout will be checked with respect to pipelines. All operating cases that are characterized by steady-state operating conditions will be checked, these transient cases (e.g., start-ups) are excluded. Different gas properties and operating cases are considered. Valve unloading cases are considered as operating cases. Measures are proposed to reduce pressure pipelines, e.g., installation of valves, changes in piping length or diameter. Shaking flows are used in the analysis with valve steady.

General Information for Pipeline Study

The exact gas data means gas composition and gas properties like mobility of sound, density, pressure, temperature flow for vehicle compressor in going to use to simulated for the pipeline simulation. Also the economic advantages of piping and compressors are used for the pipeline simulation.

Table 4-1. Case Properties. Report Data for Pipeline Simulation.

Case	Case	Flow	Temp	Temp	Temp	Temp	Temp	Temp
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5

Characterization and Interpretation of Analyzed Results

The study of the gas pipelines is carried out with the digital simulation program PULSIM which has been developed by the IPN-IFPDE Institute in Ghent (Belgium). A system of pipes in fluid of several complicated parts and elements which must be simplified the calculations. For example reduction of a cylinder crossing between valves and connecting flanges, bend, orifices, nozzles, separators, dampers, etc. The data of the gas might also change during operation. In order to take these uncertainties into account, we make several calculations at different capacities of sound. The range of variation is ± 0.2 % used in the model in steps of 2%. The results are presented in tables.

Characteristic Results

The main characteristics of API 510 are as follows:

1. API 510, section 7.34.4.2.5.2.2.2.1.1 for systems representing an absolute flow pressure between 3.3 bar and 3.500 bar (500-5000 kPa), the gas properties, pipelines flow of each individual pipelines compressor will be limited to their calculated by the API section 7.3.

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