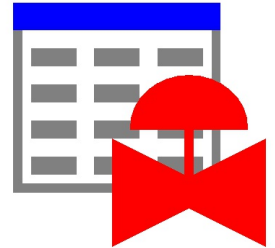


StationManager™

Product Description

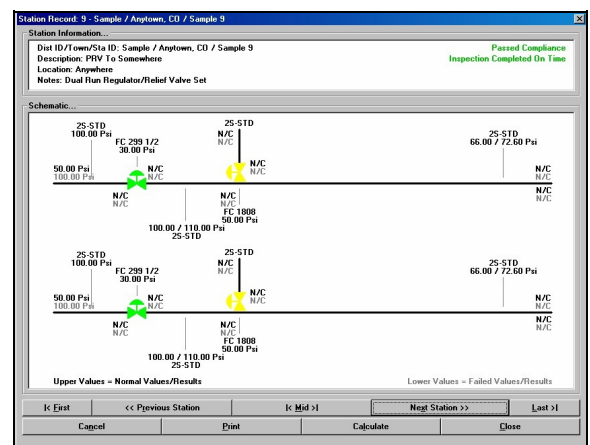
StationManager™ is a database application that allows the management of various regulator station styles through an easy-to-use spreadsheet, data form, and schematic style interfaces. In the works for several years, the product represents a collaboration between B3PE and several operating utilities. It is intended to provide database and analytical tools to support both information management and compliance calculation needs of organizations who must comply with US Department of Transportation requirements.



The Database

StationManager provides a predefined database that includes over 150 data fields and over 100 analytical results fields. The data fields include general, hydraulic, compliance, operational settings, inspection, and equipment items. The data fields allow tracking of station location, description, identification, status, dates, hydraulic configuration, MAOPs, installed equipment specifications, inspection results, pressure settings, and digital images of the station. The results fields include detailed pressure, pressure drop, capacity, and velocity values, for each component of the station.

The StationManager data scheme looks at a "station" as a set of stages and runs. A station can consist of up to two runs, with up to two stages per run. Each stage can consist of an upstream piping section, an upstream device (regulator), an intermediate/interstage piping section, a downstream device (regulator or relief valve), a downstream piping section, and a stack piping section. The stages can be configured as regulator only, relief valve only, regulator-relief valve, regulator-regulator (upstream monitor, downstream monitor, or upstream working monitor), dual regulator-single relief, and single regulator-dual relief valve. Any combination of supported manufacturer, make, and model can be included in the stage configurations. Each run can consist of any combination of supported stage configurations. The piping sections can contain a combination of both pipe segments and fittings.



The station data is complimented by a set of Property Tables that contain information on Pipe, Fitting, Regulator, and Relief Valve properties. The standard tables include a substantial list of makes, models, and sizes which can be modified or enhanced by the User.

The Data Interface

The primary access to the StationManager database is through a spreadsheet-style report interface. Station records are added, deleted, moved, and manipulated using the Station Data Report interface. However, data values can be entered or revised using either the row and column format report, a "fill-in-the-blank" Data Entry Form, or a "point-and-click" graphical Schematic Data Interface.

Data entry is enhanced by numerous drop-down and pop-up selection lists and screens. Pop-up tooltips assist the User with the required data entry.

A screenshot of the StationManager software interface showing a data table. The window title is "Station Record: 6 - Sample, Anytown, CO, Sample 6". The table has the following columns: Station Record, District Identification, City/Town, State, Legal Description, Station Identification, Station Description, and Location. The table contains 10 rows of data. Below the table are tabs for "General", "Hydraulic", "Normal Results", "Failed Results", "Compliance", "Inspection", "Settings", "Equipment", and "Logans".

The tab-delimited report and data screens group the data into functional classifications. The Station Data Report screen provides a toolbar of useful record and manipulation functions.

Using the Station Data Report screen, data can be sorted or selected for viewing. Selection sets can be created based on User-defined criteria. For example, only the stations associated with a particular operating district or only stations containing a particular regulator or relief valve type could be selected and displayed.

The dimensional units, the number format, and the fields that are displayed can all be User specified.

An "audit" screen is provided to allow view-only access to select data. This feature is intended to allow a non-User to view station compliance values while denying the ability to change the data.

Data can be printed in a spreadsheet-style report or a document-style data sheet. A printable inspection form assists in field data collection.

The screenshot shows a software window titled "Station Record: 1 - Sample, Anytown, CO, Sample 1". It has a tabbed interface with tabs for "General", "Run 1 Stage 1", "Compliance", "Inspection", and "Images". The "General" tab is active, showing a form with the following fields:
Location Information:
District Identification: Sample
City/Town: Anytown State: CO
Legal Description: Sec Ring Two
Station Identification: Sample 1
Area/Description: PRV To Somewhere
Location: Anywhere
X Coordinate: 22.3450 Y Coordinate: 44.5670 Degrees L/L
Configuration:
Operating Status: In Service Capacity:
Number Of Runs: 1 Minimum Required: 1.00 Mcfh
Stages Per Run: 1 Maximum Required: 10.00 Mcfh
Buttons: <Back, Next>
Bottom toolbar: < First, << Previous Station, < Mid >, Next Station >>, Last >, Cancel, Print, Calculate, Close

The Calculation Engine

The StationManager calculation engine was derived from our popular GASCalc software. The StationManager engine has been enhanced to provide a more compliance-oriented set of calculations compared to the more design-oriented methods of GASCalc. The station configuration is defined by the hydraulic data entered in the database. The database allows for a very detailed station definition; however, the actual definition can be as detailed or as general as the User desires. Individual pipe sections, fittings, and valves can be included in the configuration - or the entire section can be generalized as a single pipe segment or completely eliminated. Once the configuration is defined, the detailed pressure and flows at both normal and failed conditions can be calculated. The calculation routine will flag conditions that are out of code compliance or outside User-defined limits.

StationManager supports nearly twenty industry-standard pipe flow equations and ten regulator/relief valve equations. This combination of equation and configuration support allows StationManager to support nearly every conceivable station configuration found in the distribution, transmission, or gathering sectors of the industry.

Utilities

StationManager provides a number of utility functions for manipulating data values, sharing data, and importing and exporting data to other software applications. A mass update routine is provided, which allows the User to change data for records meeting certain search criteria. A routine is provided for creating a "sub" database from a selected set of records. Data entry is enhanced by a set of User-defined default data. A full set of file-handling routines is provided for copying, appending, merging, and "zipping" data files.

Import/Export Routines

A very robust set of import and export routines are provided for sharing data with other applications. Routines are provided for reading data from GasValve™, GASCalc™, dBase™, Access™, and Excel™ data files. Routines are also provided for writing data to several of these formats. This allows not only two-way sharing of the data but allows the User to take advantage of the more general reporting, analytical, and manipulation features of these outside applications.

StationManager will run on any device configured to run Windows 7 through Windows 11. Affordably priced and easy to learn and use - visit our website for more information or to download a *free* demonstration copy of the StationManager software.

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