

Safety Relief Devices

Safety Relief Devices (SRD) are key assets in any process facility that operates under pressure. Acting as a 'last resort', these fully mechanical devices are designed to operate if an over-pressure situation occurs. They safeguard the plant and help guarantee production, but, more importantly, protect the plant's most valuable asset, its workforce.

PCMS is relational database software that stores and analyzes test/repair based data and is used to evaluate performance of Safety Relief Devices including Relief, Control, Manual and Pilot Valves, Rupture Disks, and Tank Vents, and to schedule future tests.

Three main components of SRD event based performance evaluation are Pre-testing (Bench test prior to cleaning and repair), Valve Repair and Final QA testing. PCMS provides you with the environment to manage all your Safety Relief Assets.

As a result of its "User Driven" functionality and world class service PCMS is one of the most widely used condition management software systems in the world.



Safety Relief Devices - Managing Assets

Track design information, inspection history, and schedule future test dates easily and effectively with PCMS.

- Track SRD assets
- Track by Location or Asset
- Track protected equipment and associate valves
- Record Test/Repair and analyze results
- Record part conditions and recommendations for repair
- Establish test intervals based on past test results
- Pinpoint assets that need inspection
- Electronic interface to Valve Shops

SRD Reports & Forms

With PCMS you track and manage inspection and testing data in one system. PCMS provides standard reports that you can configure for you facility.

Need More! Use the Advanced Report Writer to tackle all your information needs, or ask PCMS staff to help develop a custom report.

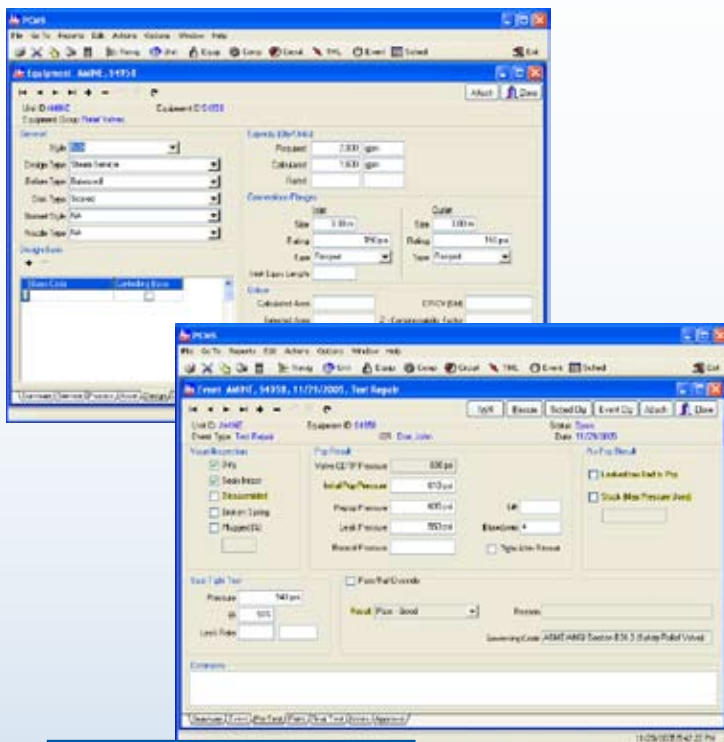
Standard Reports

- Relief Valve Test Repair Summary
- Test/Repair Schedule
- Parts Recommendation for Next Repair
- Valve Service History

Standard Forms

- Pilot Valves
- Relief Valves
- Tank Vents

It is common practice to move a Safety Relief Device throughout a plant during its life. The SRD may be sent to a shop for testing and repair, may be moved to another process/warehouse location or may be rotated with another valve in protecting a piece of equipment. PCMS can track the performance of all SRD's at a particular location or the performance of a particular SRD (asset) regardless of location.



Items highlighted in "Yellow" are used as part of Pass/Fail Calculations

Valve Shop Link - VSL

With the Valve Shop Link Module, PCMS users can export SRD asset data to and receive Test/Repair data from Valve Shops. Valve Shops can use the PCMS Valve Shop module to document test repairs, re-rates, replacements, etc, and electronically pass the information back to the process facility.

The Valve Shop Link allows you to electronically remove a SRD asset from a process location, ship to a valve shop for repair and return the valve to the same process location. You can do the same for re-rated valves, updating SRD asset data, all electronically.

From time to time a valve that is sent to a valve shop for repair ends up being scrapped and a replacement valve is supplied. PCMS Valve shop process handles this as well.

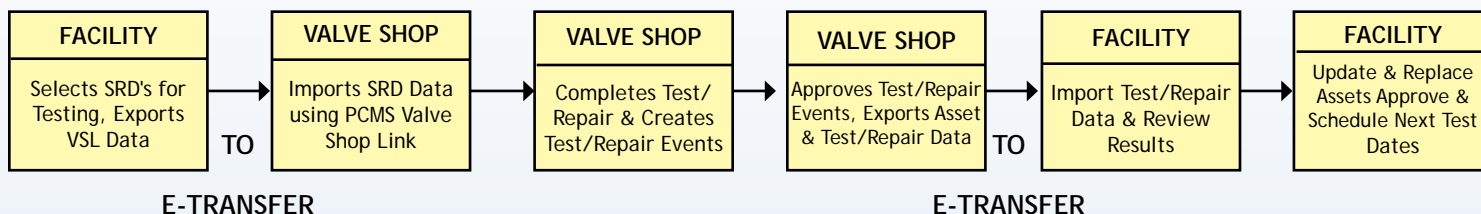
You can also move SRD assets to warehouse locations have the SRD tested/repared and return the assets to the warehouse location. Current and previous history information is also maintained. When events are approved, the event will drive scheduling for the next test/repair. Some other features include picklist maintenance to keep the valve shop and facility in sync. Previews of imported or exported events are included.

| Import | Event | Unit ID | Equipment ID | Asset No. | Date | Type | Status | Test Result |
|-------------------------------------|-------|---------|--------------|-----------|------------|-------------|----------|---------------|
| <input checked="" type="checkbox"/> | | STORAGE | A1001 | A7001 | 10/10/2005 | Test Repair | Approved | Pass - Good |
| <input checked="" type="checkbox"/> | | STORAGE | V1000 | V1000 | 10/07/2005 | Test Repair | Approved | Fail - Leaker |
| <input checked="" type="checkbox"/> | | STORAGE | V2000 | V2000 | 10/11/2005 | Test Repair | Approved | Fail - Stuck |

Imported Safety Relief Devices are listed with a count for the Valve Shop to review prior to import.

Valve Shop Benefits

- Reduce Data Entry
- Increase Accuracy
- Auto Update of Asset Data
- Auto Create T/R Events
- Shorten Turnaround
- Reduce Paperwork
- Store All Data in One Database
- Manage Customer Valves
- Schedule T/R for Customer
- Valuable Customer History



For additional information please contact PCMS, a member of MISTRAS Group's Software & Products division.

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PCMS meets SRD governing codes including:
ASME VIII Division 1, ASME VIII Division 2

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