PRODUCT DATASHEET

Surge-Relief Skid for Pipelines and Loading Lines

Fast-acting relief that protects pipelines and loading lines from surge

Product page





Close-up: surge-relief valves and nitrogen panel

OVERVIEW

The Tech Inc. Surge-Relief Skid for Pipelines and Loading Lines protects liquid pipelines and loading lines from the pressure surge that follows a fast valve closure or a pump trip. Fast-acting relief valves, gas-loaded or pilot-operated, open within milliseconds when pressure rises past the set point and send a slug of liquid to a surge tank or back to storage, then close smoothly as the pressure settles.

TYPICAL DESIGN DATA

Valve size	About 4 to 12 inch
Pressure class	ASME Class 150 to 600
Response	Opens within milliseconds of the set point
Codes and standards	ASME B31.3 or B31.4 piping; valves to the maker's certification
Loading	Nitrogen with regulator and accumulator, or pilot
Materials	Carbon steel; stainless trim
Sizing	From a surge (transient) analysis of the system

MODELS AND CAPACITIES

- **TI-SRK-4** – 4 inch relief valves
- **TI-SRK-6** – 6 inch
- **TI-SRK-8** – 8 inch
- **TI-SRK-12** – 12 inch

Indicative valve size.

ORDERING CODE

Example **TI-SRK-8-G-D**: **8** valve size, inch; **G** loading: G gas, P pilot; **D** arrangement: S single, D duty and standby.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: surge tank; duty and standby arrangement; remote alarm of valve opening; third-party inspection.

KEY ADVANTAGES

- **Fast** – opens within milliseconds
- **Redundant** – duty and standby valves
- **Stable** – smooth closing as pressure falls
- **Sized properly** – from a surge analysis

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**
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