PRODUCT DATASHEET

Pressurisation, Purge and Command-Gas Panel

Regulated gas panel for pressurisation and purge





DETAIL – GAUGE PANEL

OVERVIEW

The Tech Inc. Pressurisation, Purge and Command-Gas Panel regulates and switches high-pressure helium and nitrogen for three duties at launch pads and engine test stands: pressurising propellant tanks to drive the propellant out, purging lines clean, and supplying the command gas that operates pneumatic valves. The TI-PCP takes gas from storage at up to 400 bar and delivers each circuit at its own controlled pressure, with remote operation from the control room.

MODELS AND CONFIGURATIONS

- **TI-PCP** – pressurisation, purge and command-gas panel.
- **Pressurisation panel** – tank pressurisation circuits only, to client specification.
- **Purge and command-gas panel** – purge and valve-actuation circuits, to client specification.

TYPICAL DESIGN DATA

Inlet pressure	Up to 400 bar, or to client specification
Gases	Helium or nitrogen
Outlet pressures	Set for each circuit, to client specification
Circuits	Number of pressurisation, purge and command-gas circuits to client specification
Valves	Solenoid-operated for remote control, with manual isolation for maintenance
Tubing and fittings	Cleaned for high-pressure gas service, to client specification
Controls	PLC or hard-wired interface to the control system, to client specification

APPLICATIONS

Propellant tank pressurisation, purge of propellant and engine lines, command gas to pneumatic valves, and gas supply panels at launch pads and engine test stands.

KEY ADVANTAGES

- **Three duties, one panel** – pressurisation, purge and command gas on one engineered frame
- **Remote operation** – solenoid valves and transmitters let operators work from the control room
- **Overpressure protection** – relief on every regulated circuit
- **Tested before dispatch** – pressure, leak and function tested in the factory
- **Fits the control system** – signals and interlocks engineered to the pad or test-stand PLC

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

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