PRODUCT DATASHEET

Pre-Engineered Gas-Distribution System

Source panels, distribution headers and point-of-use regulator stations

Product page





Close-up: source panel and point-of-use regulator station

OVERVIEW

The Tech Inc. Pre-Engineered Gas-Distribution System takes gas from the cylinder store to every instrument, analyser or bench that uses it. A source panel with changeover feeds a distribution header in stainless tube; isolation valve boxes split it by area, and point-of-use regulator stations set the pressure at each user.

TYPICAL DESIGN DATA

Inlet pressure	To about 300 bar at the source panel
Distribution pressure	Typically about 5 to 15 barg
Tube	316L bright-annealed or electropolished, orbital welds or compression fittings
Purity	Helium leak-tested; particle and moisture checks on request
Safety	Gas detection, excess-flow and emergency shut-off for hazardous gases
Design code	ASME B31.3

MODELS AND CAPACITIES

- **TI-GDS-SP** – source panel with changeover
- **TI-GDS-IB** – isolation valve box
- **TI-GDS-HY** – hydrogen package with detection and shut-off
- **TI-GDS-H** – distribution header per metre run
- **TI-GDS-POU** – point-of-use regulator station

Indicative module families; each system is laid out to the building or unit.

ORDERING CODE

Example **TI-GDS-POU-S-10**: **POU** module: SP, H, IB, POU, HY; **S** tube: S bright-annealed, E electropolished; **10** outlet pressure, barg.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** orbital welding throughout; gas detection and alarm panel; moisture and particle certification; cylinder store with racks; maintenance contract.

KEY ADVANTAGES

- **Standard modules** – same building blocks everywhere
- **Clean** – bright-annealed or electropolished tube
- **Safe** – detection and shut-off for hazardous gases
- **Documented** – as-built drawings and test records

How to cite: Pre-Engineered Gas-Distribution System (model TI-GDS; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/gas-distribution-system

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

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.