

PEDS™ - Process Engineering Data Sheets

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The author has designed and specified many pieces of equipment and has used data sheets in one form or another to record information. These data sheets would be passed on to other disciplines, issued to vendors and clients and could be used to form part of the permanent record for the purchased equipment. The quality of the data sheets varied considerably from handwritten, typed, CAD versions, word processed forms, spreadsheet forms, poor photocopies to type set forms.

This publication is a collection of several hundred Process Engineering Data Sheets (PEDS™) covering equipment used in the chemical, power, material handling, etc. industries. The primary function of a data sheet is to communicate process and mechanical information for a piece of equipment or system. They are used in conjunction with other specifications, drawings, standards, etc to define equipment or systems for quotation or purchase.

Data sheets should present the process and mechanical data in a logical and concise manner so they can be easily filled out and read. This is important to avoid errors that can lead to equipment being supplied that does not satisfy the process, mechanical or electrical requirements of the service. This can result in safety hazards and added costs associated with correcting problems.

All the PEDS™ have a similar layout and look, so standard information such as site, motor driver and location data are presented identically on all data sheets. The user will quickly learn what information is required and can complete the entire data sheet quickly and efficiently while minimizing the chance of errors.

The PEDS™ have been organized in sections according to the type of equipment – Heat Transfer Equipment, Pumps, Compressors/Fans/Blowers, Separation Equipment, Mixing Equipment, Refrigeration Equipment, Steam Equipment, Vessels and Tanks, Drivers & Accessories, Towers & Columns, Relief Devices, Site Data, Instrumentation, Electrical, Piping/Valves/Fittings, Bulk Solids Handling, Water Treatment, Filters, Weighing Equipment, Fired Heater/Furnaces, Stacks & Flares, and more.

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