

## PRODUCT DATA SHEET: HS4D Two Step Solenoid Valve

### INTRODUCTION

Hansen Technologies introduces the HS4D Two Step Solenoid Valve. The HS4D is based on the same strength, reliability, design principles and craftsmanship as the standard Hansen HS4A Solenoid Valve—with added versatility.

The two step solenoid design provides three positions for the valve: fully closed, partially open (10-15% stroke), and fully open. These valves are normally closed and will revert to the closed position in the event of a power failure. The valve can be opened via the manual opening stem for pump-out during maintenance. Similar to the standard HS4A, the HS4D is superior in its ability to overcome dirt and sticky oil during opening, as well as function in an oil-free “dry” system.

### APPLICATIONS

The Hansen HS4D is a reliable, flange-bodied valve which can be used anywhere a traditional refrigerant solenoid valve is employed. The partially open position can help minimize liquid velocity shock (liquid hammer). When used as a liquid feed valve, partial opening of the HS4D can gradually introduce flow before switching to the fully open position. Additionally, the two step solenoid valve can be used to gradually slow liquid flow prior to fully closing the valve to minimize hydraulic shock.

If used as a hot gas defrost valve, the partially open position allows gradual equalization of hot gas during defrost before fully opening the valve.

### ADVANTAGES

The versatile, simple, and serviceable design of the Hansen HS4D provides cost savings. When used as a hot gas valve, the Hansen HS4D eliminates the need and cost of a separate soft gas valve and associated piping. As a liquid feed valve, the partially open position can help minimize liquid velocity shock (liquid hammer).



2" HS4D with Pilot Light and Din Plug

### FEATURES

- Two step solenoid design allows for closed, partially open and fully open valve positions
- Valve can be used to dampen on closing and opening to help minimize shock to piping and other system components
- Eliminates the need for a soft gas valve and associated piping when used in hot gas valve applications
- Tolerant of dry systems
- Teflon main and pilot seats
- Encapsulated Hansen standard coil
- Heavy duty, pilot operation
- 300 psi MOPD (20 bar)
- Available close-coupled strainer/check valve
- Non-asbestos gaskets
- Optional wireless pilot lights are available
- Flange-to-flange drop in for standard HS4A

For more information, visit:

[WWW.HANTECH.COM](http://WWW.HANTECH.COM)