

Hansen Technologies Corporation Design Specifications

Hansen Technologies Corporation manufactures refrigeration valves and controls for the commercial and industrial refrigeration markets. They are suitable for a wide range of refrigerants including: R717 (ammonia), R22, R134a, R507a, R410, R744 (Co2) and other Hansen approved refrigerants. Hansen refrigeration valves and controls conform to one or more of the following codes and standards:

- ASME B31.5-202022, Refrigeration Piping and Heat Transfer Components
- ANSI/ASHRAE Standard 15-2022, Safety Standard for Refrigeration Systems
- ANSI/IIAR 3-2022, Ammonia Refrigeration Valves
- ASME Boiler and Pressure Vessel Code, 2023, Section VIII Division 1, Rules for Construction of Pressure Vessels
- ASME Boiler and Pressure Vessel Code, 2023, Section XIII, Rules for Overpressure Protection
- Directive 2014/68/EC of the European Parliament and of the Council of 15 May 2014 on the harmonization of the laws of the Member States relating to the making available on the market of pressure equipment (known as PED)
- CSA Standard B51-2019, Boiler, Pressure Vessel, and Pressure Piping Code

Hansen standard electrical controls are designed for indoor, non-hazardous locations. Hansen products are compliant for RoHS and WEEE directives of the European Union. Specific controls meet national codes as follows:

- Hansen solenoid coils meet NEMA 3R (IP32) (rainproof) and NEMA 4 (splash proof) requirements. The solenoid coils are CSA (C/US) Certified to CAN\CSA C22.2 No. 139 and UL 429, and are CE Approved.
- HLL float switch is CSA (C/US) Certified to CAN \CSA C22.2 No. 24 and UL 353, and are CE Approved
- VLT Level Probe transmitter meets type/class 2U ANSI/ISA S50.1. Enclosure is NEMA 4 (IP65).
- Vari-Level Liquid Level controls are CSA (C/US) Certified

CSA Certification Mark with **(C/US)** indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical for Canada and United States.



Current product listings for CSA Certification can be found at:
<https://www.csagroup.org/testing-certification/product-listing/>

HANSEN TECHNOLOGIES CORPORATION

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