



Exploration & Production

GENERAL SPECIFICATION

HVAC

GS EP HVA 221

Pressure Relief Dampers

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00	10/2005	First issue
Rev.	Date	Notes

Owner: DEV/TEC

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1. Scope

The purpose of this document is to define the minimum requirements for design, construction and supply of pressure relief dampers.

The words and expressions in capital characters are defined inside the general specification **GS EP HVA 801**.

When other words require a definition only for using within that document, the definition is given in a paragraph of that document and the defined word is marked in small and *italic* letters.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Equipment and installations must be in accordance with (in order of precedence):

1. The country local regulations where equipment and/or installations shall be operated
2. Total General Specifications as listed in **GS EP HVA 000**
3. The International Standards
4. The French Regulation (when Country local regulation does not exist).

Notes:

- In case of discrepancy between documents the more stringent requirements shall apply.
- The HVAC VENDOR or CONTRACTOR may propose proven improvements to the reference documents but shall obtain written approval of the COMPANY prior to implementation.
- An International Standard is a good "engineering practice" which shall be recognised and taken into consideration by VENDOR, SUPPLIER, MANUFACTURER and/or CONTRACTOR. If required, the translation of the standards must be included into HVAC scope.
- The latest revision of Standards, codes, regulations and the published errata if any must be used and applied by VENDOR, SUPPLIER, MANUFACTURER and CONTRACTOR.

Standards

Reference	Title
EN 1751	Ventilation for buildings. Air terminal devices. Aerodynamic testing of dampers and valves
EN 10204	Metallic materials - Types of inspection documents
EN 50262	Metric cable glands for electrical installations



Reference	Title
ISO 15607	Specification and qualification of welding procedures for metallic materials - General rules
ISO 15614 (Parts 2; 8)	Specification and qualification of welding procedures for metallic materials - Welding procedure tests - (Parts 2; 8)

Professional Documents

Reference	Title
SMACNA	Sheet Metal and Air Conditioning CONTRACTORS' National Association

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
SI	International System of Units

Total General Specifications

Reference	Title
GS EP COR 350	External protection of offshore and coastal structures and equipment by painting
GS EP HVA 000	List of HVAC Specifications
GS EP HVA 100	HVAC Basis of design
GS EP HVA 801	Terminology, Definitions, Abbreviations

3. Definitions

Frame: part of the damper that is used as a duct to drive air from the upstream ducting to the downstream ducting.

Height: vertical dimension (horizontal duct) or more important dimension (vertical ducting) measured inside the section of the damper, where air is passing.

Width: horizontal dimension (horizontal duct) or smaller dimension (vertical ducting) measured inside the section of the damper, where air is passing.

4. Operation

Pressure relief dampers shall be used to control the overpressure in room or duct network. Dampers shall meet international standards for rectangular and round ducts.

The Opening pressure shall be adjusted by changing the position and/or the number of counterweight(s), the opening pressure range shall be between 30 Pa and 300 Pa. When the pressure in the ductwork drops below the adjusted pressure, the blades shall close and seal the duct to prevent backflow and leakage. The final adjustment of counterweights will be carried out during commissioning. The counterweights shall be part of the supply. The position of the counterweights shall be either on left hand side or right hand side, as per request.

