



Exploration & Production

## GENERAL SPECIFICATION

### HVAC

#### GS EP HVA 218

**Coalescer Filter(s)**

|      |         |                                   |
|------|---------|-----------------------------------|
|      |         |                                   |
|      |         |                                   |
| 01   | 10/2009 | Updating of "Reference documents" |
| 00   | 10/2005 | First issue                       |
| Rev. | Date    | Notes                             |



## Contents

|                                                                   |          |
|-------------------------------------------------------------------|----------|
| <b>1. Scope .....</b>                                             | <b>3</b> |
| <b>2. Reference documents.....</b>                                | <b>3</b> |
| <b>3. Definitions.....</b>                                        | <b>4</b> |
| <b>4. Operation .....</b>                                         | <b>5</b> |
| <b>5. Installation .....</b>                                      | <b>5</b> |
| <b>6. Construction .....</b>                                      | <b>5</b> |
| 6.1 Installation Frame .....                                      | 5        |
| 6.2 Water separator vanes .....                                   | 6        |
| 6.3 Mechanical coalescing Filter.....                             | 6        |
| <b>7. Performances .....</b>                                      | <b>7</b> |
| 7.1 Performances for Water Separator vanes (Stainless steel)..... | 7        |
| 7.2 Performances for G4 mechanical coalescing filter .....        | 11       |

## 1. Scope

The purpose of this document is to define the minimum requirements for design, construction and supply of coalescer filter(s).

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                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------|
| <a href="#">EN 779</a>     | Particulate air filters for general ventilation - Determination of the filtration performance |
| <a href="#">EN 10204</a>   | Metallic materials - Types of inspection documents                                            |
| <a href="#">ISO 9606-1</a> | Qualification test of welders - Fusion welding - Part 1: Steels                               |
| <a href="#">ISO 9606-2</a> | Qualification test of welders - Fusion welding - Part 2: Aluminium and aluminium alloys       |

## 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 | Basis of design                                                                  |
| GS EP HVA 801 | Terminology, definitions, abbreviations                                          |

## 3. Definitions

**Frame:** Installation frame of the coalescer filter that is bolted to cover the bulkhead opening.

**Vane:** A metallic sheet especially profiled to extract water from the air passing through the coalescer filter.

**Height:** vertical dimension of the bulkhead opening into which the coalescer filter is to be installed.

**Width:** horizontal dimension of the bulkhead opening into which the coalescer filter is to be installed.