

## 命令模式

WATER [description] [spgr [,spgr2]] [/V: viscosity]

Sets the specific gravity of the water environment.

设定水域环境的比重

WATER OFF

Resets the water environment so it will match displacer parts in the next READ geometry file.

重置水环境，使其与下一个 READ 几何文件中的排水类部件匹配。

WATER

Displays the current water environment setting (screen only).

显示当前水域环境的设置（仅屏幕显示）

## 参数说明

description

An optional description of the water. May be up to 12 characters long; must be enclosed in quotation marks if more than one word. Certain initial characters are recognized by the program and automatically establish a default for specific gravity to be used in case the spgr parameter is omitted. These are:

水域环境的描述(可选)，最多有 12 个字符。如果多于 1 个单词，必须用引号引起。当比重参数被省略时，某些开头字母可以被程序识别，并自动赋予默认的比重。

Description	Default spgr (standard)
FRESH	1.000
SALT or SEA	1.025
描述	默认比重(standard)
FRESH	1.000
SALT or SEA	1.025

Two abbreviations are automatically expanded. These are:

它们两个可以缩写为如下：

Abbreviation	Expanded to
FW	FRESH WATER
SW	SEA WATER
缩写	展开
FW	FRESH
SW	SALT or SEA

### spgr

The specific gravity to be assigned to the contents. The standard specific gravity scale is used unless the USCG option is in effect (see the SPGR command). If this parameter is given it overrides any specific gravity associated with the description.

设定比重。除非选择了 USCG 模式（参看 SPGR 命令），标准的比重换算将被采用。如果比重被指定，它将替代任何相关描述的比重。

Note: If both description and spgr are given, they must be given in that order. Since description is only used to set the default specific gravity, its presence is not important when spgr is given to override the default.

注意：如果描述和比重都给定，他们必须按照顺序给定。由于描述仅用于设置默认比重，因此当给出 spgr 以覆盖默认值时，它的存在并不重要。

### spgr2

The specific gravity of the water in WDF-type tanks. If this parameter is not given, it is assumed to be the same as spgr.

WDF 类型舱室中液体的比重。如果这个参数不给定，默认和 spgr 比重相同。

### /V: viscosity

The dynamic viscosity of the water in millipascal-seconds. If not specified, default viscosity is interpolated on specific gravity using 1.0 mPa-s for fresh water and 1.1 mPa-s for sea water.

水的动态粘度，以毫帕秒为单位。如果未指定，则默认粘度在比重上插值，淡水为 1.0 mPa-s，海水为 1.1 mPa-s。

## Operation

### 操作

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When either description or spgr is given, the water environment outside the vessel is set accordingly.

当水的描述或比重给定时，船舶的水域环境将被设定。

On program startup, the water specific gravity is zero. If it is still zero when a geometry file is READ, then the specific gravity of the displacer parts is applied to the environment. However if a WATER or READ command had previously set the water specific gravity, then it is not altered by a new READ command.

程序启动时，水比重为零。如果在读取几何文件时仍为零，则排水类部件的比重将应用于环境。但是，如果 WATER 或 READ 命令先前设置了水比重，则新的 READ 命令不会更改它。

WATER OFF resets the water specific gravity to zero, so it may be set to match displacer parts in the next READ geometry file. Note WATER OFF requires the current vessel geometry be CLEARed first.

WATER OFF 将水比重重置为零，因此可以将其设置为匹配下一个 READ 几何文件中的排水类部件。注意 WATER OFF 要求首先清除当前舱室几何形状。

## Display Output

### 输出显示

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Display mode is activated when no parameters are given, in which case the current water description and specific gravity are displayed (on the screen only). The STATUS command shows the specific gravity of the water.

当不赋予参数时，当前水域环境的描述和密度将仅在屏幕中显示。STATUS 命令可在报告中显示当前水域环境的密度。

## Nondisplay Output:

### 无输出显示:

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none

无

## Examples

### 样例

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Changing the water environment to fresh water:

改变水域环境为淡水

**WATER FW**

Specifying an exact specific gravity:

指定水域环境的比重为 1.013.

**WATER 1.013**

Specifying that fresh water be used for WDF-type tanks:

指定淡水用于 WDF 型舱室:

**WATER 1.013, 1.000**

Specifying typical salt water specific gravity and viscosity at 10°C:

指定 10° C 下的典型盐水比重和粘度:

**WATER 1.027 /V:1.397**