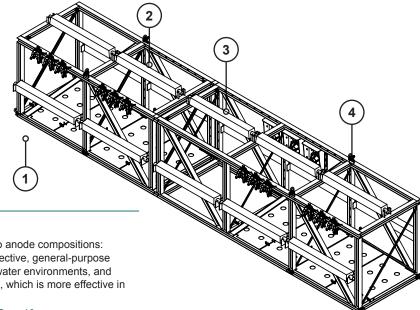
DEEPWATER

RETROPOD™XL

General

RetroPod LP is a retrofit sacrificial anode system designed to maximize current output with reduced installation time. The optimized shape increases stability, reduces mutual interference between anodes and increases ease of handling offshore.

Note: This configuration is not recommended for use in water depths less than 35 ft [10.7 m].



Anode composition / electrical properties

Description RetroPod LP is available with two anode compositions:

Deep10 alloy, designed as an effective, general-purpose offshore alloy for use in tropical water environments, and Deep7 alloy with low iron content, which is more effective in

cold, deep water.

Composition (%) Deep7 Deep10 Iron (Fe) 0.07 max. 0.10 max. Silicon (Si) 0.10 max 0 10 max Copper (Cu) 0.003 max. 0.006 max. 4.75 - 5.25 3.00 - 6.00 Zinc (Zn) 0.015 - 0.025 0.010 - 0.020 Indium (In) Titanium (Ti) 0.025 max. 0.025 max. Cadmium (Cd) Part of others Part of others Others (each) 0.02 max. 0.02 max. Aluminium (AI) Remainder Remainder

Open circuit potential (sw) (-) 1.08 V vs Ag/AgCl (-) 1.08 V vs Ag/AgCl Closed circuit potential (sw)(1) (-) 1.05 V vs Ag/AgCl (-) 1.05 V vs Ag/AgCl Seawater capacity @ 25°C (2) 1100 AHr/lb [2420 AHr/kg] 1100 AHr/lb [2420 AHr/kg]

Seawater capacity @ 5°C 1100 AHr/lb [2420 AHr/kg] Variable

Seabed Mud Capacity @ 25°C 950 AHr/lb [2090 AHr/kg] 950 AHr/lb [2090 AHr/kg]

Seabed Mud Capacity @ 5°C 950 AHr/lb [2090 AHr/kg] Variable (3)

1. Recommended number to use when designing CP systems.

Recommended number to use when designing CP systems for offshore pipelines using bracelet or sub-bottom anode systems.

3. Activation can be a problem with chemistries at extremes of specification in cold water.

Overall weights and dimensions*

(When using 325 lb anodes)

Dimensions (W x D x H) 282" x 50" x 78"

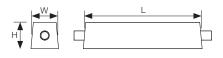
[7163 x 1270 x 1982 mm]

Weight (Air) 4225 lb [1920 kg] Weight (Water) 3347 lb [1518 kg]

*Excluding RetroClamp and connection cable

Anodes (Item 4)

Deepwater currently offers 325 lb anodes on the RetroPod LP.



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 Net weight
 325 lb [148 kg]

 Gross weight
 410 lb [186 kg]

 Dimensions (L x W x H)
 96" x 5.5" x 5.9" [2438 x 140 x 150 mm]

 Core
 2" Sch 80 pipe

Quantity 4

Frame (Item 1)

Steel grade ASTM A53 [ASTM A106]

ASTM A36 [EN 10025 S355]

Steel Structural Welding Code – AWS D1/

D1.1M:2006 [EEMUA 158]

Lifting 1.125" [28.5 mm] Padeye

(Item 2)

Connection details

RetroPod LP 2 x Ø 1/2" [M12] Stud-welded to frame

(Item 3)

Structure RetroClamp (See RetroClamp technical

datasheet). Quantity as per requirements,

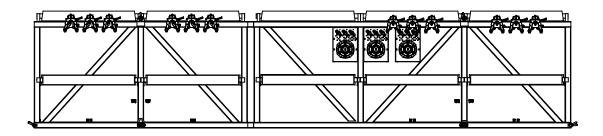
typically 1 per RetroPod.

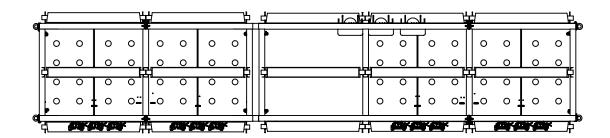
Cable 4/0 AWG [~107 mm2], EPDM insulated,

heavy-duty flexible cable 2 per RetroClamp 5/8" wire rope clips

Deepwater Corrosion Services Inc.

DEEPWATER





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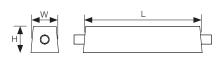
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Welding All welding conducted in accordance with

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