CHUAN KOK
CREATING OPPORTUNITIES

ANTI CORROSION CLAMPS

Literature

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Introduction:

Figure 1 Twin Series ACT Stauff Clamps

Latest Anti-Corrosion Technology pipe clamps by Stauff are developed according to DIN 3015 standards. Similar to standard pipe clamps, the main usage of ACT clamps is providing structural support by reducing vibration and noise throughout systems.

The ACT clamps are most suitable for systems stationed under harsh conditions such as sub-sea, top-side, oil rigs etc. It can prevent pitting corrosion on stainless steel pipes and tubing. With the integrated anti-corrosion elastomer strips, the accumulation of seawater between clamshell and pipe can be avoided. Several tests, such as salt-spray tests according to ASTM B117 and long-term field tests have been conducted for approval.

Specification:

Stauff ACT clamps are designed based on Stauff Clamps following DIN 3015, Standard Series and Twin Series. It covers most of the metric and imperial pipe size from diameter of 6MM to 42MM (from 1/4" to 1 1/2"). ACT clamps are efficient in preventing crevice corrosion on stainless steel pipework under sea environment, which makes it suitable for offshore oil and gas exploration and processing.

Figure 2 Standard Series ACT Stauff Clamps

ACT clamps offer time reduction in installation progress and cost savings in the long term due to extended service intervals. Available in Standard Series and Twin Series, the material of clamp body is made of flame-retardant PPV0 plastic, which is tested and V0 classified according to UL 94.

The anti-corrosion elastomer strips and drainage channels inside the clamp body avoid the accumulation of seawater between the clamp body and tube. The clamp body also has high UV stability to provide better resistance against rain, seawater and oil.

Material:

Figure 3 ACT Stauff Clamp Body

The ACT clamp body is made of flame-retardant PPV0 plastic and is suitable for continuous exposure to temperatures from -25°C to +80°C. Most accessories compatible for ACT clamps are usually available in stainless steel V4A including cover plate, weld plate and hexagon head bolts.

Configuration:

Different type of assembly will be as follow:

- Cover plate (DP), single weld plate and hexagon head bolts
- Safety locking plate and stacking bolts
- Cover plate (DP), channel rail adaptors and hexagon head bolts
- Cover plate (DP), hammerhead bolts and self-locking nuts
- Cover plate (GD), single weld plate and hexagon head bolts
- Cover plate (GD), hammerhead bolts and self-locking nuts

Different types of assembly are available to suit different installation versions. Recommended to mark the location for alignment of weld plate during weld plates installation. Next, push in the bottom half of the clamp, install tubing, mount the top half of the clamp together with cover plate and bolts. To avoid damaging the clamp body, welding the weld plates before mounting the clamp body is recommended.

Recommended distance between clamps:

Pipe O.D. - MM	Distance (M)
6.0 - 12.7	1.0
12.7 - 22.0	1.2
22.0 - 32.0	1.5
32.0 - 38.0	2.0
38.0 - 42.0	2.7

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