

HP Retrievable Corrosion Coupon Holders

For use with the AXHP Access Systems

Corrosion Coupon Holders

CD-HP Series

Controlling corrosion is crucial for preserving the integrity of essential assets, as it can incur substantial costs if left un-checked. One of the simplest and effective methods to monitor corrosion within your facility is through the use of corrosion coupons. These coupons are inserted into the process system and periodically retrieved for weight loss and visual analysis.

The Corr-defense CDHP range of coupon holders are specifically designed to work seamlessly with our CDHP access systems, facilitating the hassle-free insertion and removal of corrosion coupons in pressurized piping systems, even up to 10,000 psi. These holders are integrated through permanently mounted access fittings, enabling the installation and replacement of coupons without the need to isolate process pressure, thereby averting costly shutdowns.



Standard coupon holders are crafted from 316SS material, with lengths tailored to suit the specific monitoring location.

Two primary styles of coupon holders are available: the 3" strip and flush disc. Strip coupon holders are ideal for monitoring at predetermined areas within the pipe, whereas flush disc coupon holders are well-suited for monitoring in line with the pipe wall. Additionally, we offer other coupon holder types, such as ladder coupons and multidisc, catering to specialized monitoring needs within multiphase lines.

Key Features

- Meet NACE MR0175 & MR0103 Standards
- Low-cost monitoring option
- Easy installation and maintenance
- Provides average weight loss data
- Physical specimen to identify corrosion mechanisms

Coupon Holder Sizing

Once you've determined the access fitting type and pipe dimensions, you can choose the style of holder and the desired location for the coupons. The following formulas can then be applied to position the coupons accurately within the line.

Refer to the formulas below to calculate the holder length. If the calculated length does not result in an even 0.25" increment, choose the next shortest length to the nearest 0.25".

Top of the Line Monitoring:

Coupon holder positions the effective length of coupon into pipe vessel. $(A + Pw + Wg) - 2.5"$

Where:

A = Length of Access fitting body

Pw = Pipe wall (wall thickness of pipe) Pd = Pipe diameter (outside diameter of pipe)

EI = Effective length of coupon (the portion of the coupon exposed to the environment, i.e. 3" coupon = 1-5/8", 6" coupon = 4-3/4") Wg = Weld gap (per weld procedures, 1/16" is normal per ANSI B31.1 1973)

Bottom of the Line Monitoring:

Coupon holder positions 1/2 of the coupon on either side of pipe centerline. $(A + 1/2Pd + Wg) - (2.5" + 1/2EI)$

Sample Part Numbering: