

"CSCR / SSCR" Series

CORROSION COUPON RACKS

Specification WRTNCPNCSCR

Written: November 2023



1.0 DESCRIPTION

1.1 CORROSION COUPON RACK: Shall be manufactured by AquaPhoenix or approved equal and consist of a steel piping assembly, brass inlet & outlet isolation valves, rotationally molded back panel with integral awning and shelf, poly back panel, injection molded threaded sample points and steel linked safety chain.

2.0 MATERIALS

2.1 PIPE SIZE & MATERIAL: Corrosion coupon rack shall be made from 3/4" pipe, fittings, valves and fittings. Fittings, such as elbows, tee's, couplings, are standard CL150 black iron. Nipples are Sch40 black seamless pipe. Piping shall be supported at each end of all piping runs, to minimize piping vibrations.

- ☐ "07" 3/4" pipe, fittings, valves and holders (standard)
- ☐ "10" 1" pipe, fittings, valves and holders

2.2 PAINT: Carbon steel piping assemblies shall be painted and primed with external corrosion resisting Alkyd enamel paint.

- ☐ "CSCS" Carbon steel piping assemblies (standard)
- ☐ "SSCS" Stainless steel piping assemblies are not coated.

2.3 COUPON HOLDER(s): Shall be constructed of injection molded PVDF to maintain consistency and rated to 200°F @ 83PSI or 120F @ 150PSI. Coupon holder shall have directional arrow indicating sample orientation. Sample set screw shall be Polycarbonate so as not to cause dissimilar metal corrosion.

- ☐ Optional "HT" carbon steel coupon holders are available, Rated 200PSI @ 200F

2.4 PIPE SUPPORTS: Pipe supports shall be galvanized steel with stainless steel hardware, plastic pipe support should not be accepted due to heat transfer through piping assembly.

2.5 MOUNTING SYSTEM: Mounting rack shall be heavy duty rotational molded sample station with integral awning, shelf, backboard and factory supplied mounting clips. Awning is to deter direct elements and shelf is designed to catch spills/system water during analysis and discard appropriately to floor drain or to wastewater storage for processing through drain port supplied.

2.6 SAFETY CHAIN: Threaded, plug style, sample holder(s) shall be bound and connected to mounting system with 10" galvanized steel chain and be of ample strength to ensure operator safety.

2.7 ISOLATION VALVES: Full port isolation valves shall be supplied on inlet & outlet of corrosion coupon rack. "CS" models re supplied with brass valves and "SS" models are supplied with stainless steel valves.

2.8 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum standard operating of 120PSI @ 150F (Optional "HT" coupon holders are rated 200F @ 200P)

2.9 OPTIONAL FEATURES: Select from the following (not limited to)

- ☐ Code "SVB" Sample Valve, Brass
- ☐ Code "YSB" Y-Strainer, Brass
- ☐ Code "FCB05" Flow Control Valve, Brass, 5GPM
- ☐ Code "FCS05" Flow Control Valve, Stainless Steel, 5GPM

3.0 WARRANTY

AquaPhoenix's Coupon Racks are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship which develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.