

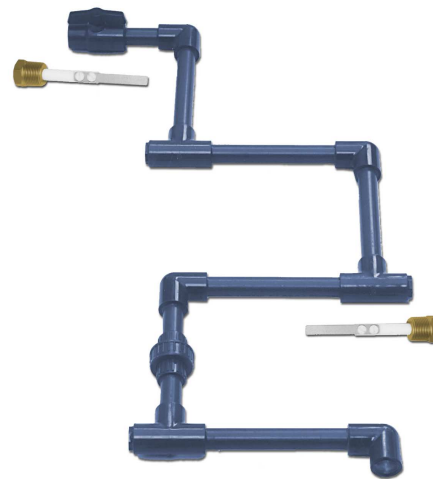
Corrosion Testing Supplies for the Water Treating Industry

Metal Samples, an active member of **AWT** (Association of Water Technologies), provides the water treatment industry with a wide assortment of corrosion test supplies. We specialize in expeditious order processing of test coupons made according to your needs for material, size, shape, and finish. Coupons can be stenciled with alloy and sequence numbers for proper identification, and then preweighed and measured to help assure the integrity of your test data.

Bypass Piping Systems

We can provide you with conventional or custom-designed bypass systems for on-line corrosion monitoring. Commonly used in the industrial water treatment industry to determine the corrosive properties of potable or cooling water, these systems are available in PVC, carbon and stainless steels, and other materials.

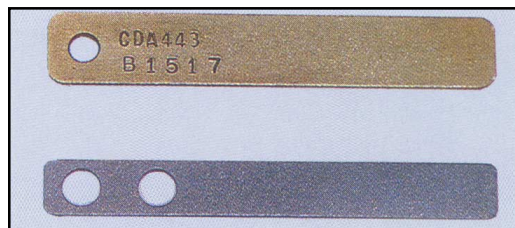
Bypass systems are easily installed to your existing piping. Normally, all you need is a 1" NPT male fitting to which the bypass is attached. Standard bypass systems come equipped with 4 pipe plug assemblies, 4 pre-weighed mild steel coupons, and a 5-gpm flow control valve.



Standard Water Treating Coupons

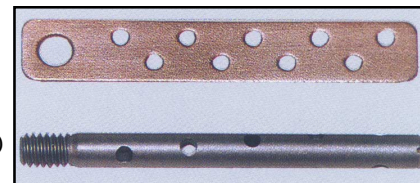
Flat Coupons

P/N	Size	Hole	Hole Location	Area Sq. In.
CO100	1/2" x 3" x 1/16"	3/16"	1/4" fr. end	3.38
CO101	1" x 2" x 1/16"	3/16"	1/4" fr. end	4.32
CO102	1/2" x 3" x 1/16"	9/64"	1/8" fr. end	3.41
CO103	1/2" x 3" x 1/16"	1/4"	1/4" fr. end	3.34
CO104	1/2" x 3" x 1/16"	(2) 1/4"	1/2" fr. ea. end	3.24
CO105	1/2" x 3" x 1/16"	3/16"	1/2" fr. end.	3.38
CO106	1/2" x 3" x 1/16"	1/4"	1/2" fr. end.	3.34
CO115	1/2" x 3" x 1/16"	1/4"	1/4" fr. end	
CO117	3/8" x 3" x 1/16"	9/64"	1/8" fr. end	2.64
CO118	1/2" x 3" x 1/16"	(2) 1/4"	1/4" & 3/4" end	3.24
CO120	3/8" x 3" x 1/16"	(2) 1/4"	1/4" & 3/4" end	2.48



Scale coupons (or deposition coupons) provide a qualitative measure of relative deposition rates in industrial water and manufacturing process systems.

P/N CO115 (flat)

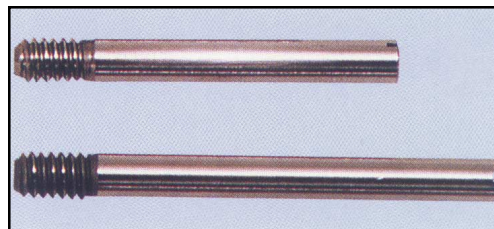


P/N ES209 (cylindrical)

Standard water treating coupons listed above are made from C1010 material. For additional alloys see [Alloys Available](#).

Cylindrical Coupons

P/N	Size	Thread	Slot	Area Sq. In.
ES200	1/4" \varnothing x 2 1/2"	1/4"-20 x 3/8"	1/16"	1.96
ES201	1/4" \varnothing x 2"	1/4"-20 x 3/8"	1/16"	1.57
ES202	1/4" \varnothing x 3"	1/4"-20 x 3/8"	1/16"	2.45
ES204	1/4" \varnothing x 1 1/2"	1/4"-20 x 3/8"	1/16"	1.18



Standard Water Treating Coupon Holders (Pipe Plug Assemblies)

Pipe Plug Assemblies for Flat Coupons

P/N	Carbon Steel or PVC Plug	3" (Std.) Stem	Used with Coupon No.
RC12E3100036	3/4" NPT	Nylon	CO102, CO117
RC13E3100036	1" NPT	Nylon	CO102, CO117
RC13Q3100036	3/4" NPT	Teflon®	CO102, CO117
RC13Q3100066	1" NPT	Teflon®	CO102, CO117
RC12E3010036	3/4" NPT	Nylon	CO100, CO103, CO115
RC13E3010036	1" NPT	Nylon	CO100, CO103, CO115
RC12Q3010030	3/4" NPT	Teflon®	CO100, CO103, CO115
RC13Q3010026	1" NPT	Teflon®	CO100, CO103, CO115
RC12E3030036	3/4" NPT	Nylon	CO118, CO120
RC13E3030036	1" NPT	Nylon	CO118, CO120
RC12Q3030036	3/4" NPT	Teflon®	CO118, CO120
RC13Q3030035	1" NPT	Teflon®	CO118, CO120
RC12EC090036	3/4" NPT	Nylon	CO105, CO106
RC13E3090036	1" NPT	Nylon	CO105, CO106
RC12Q3090036	3/4" NPT	Teflon®	CO105, CO106
RC13Q3090036	1" NPT	Teflon®	CO105, CO106
RC11E3010036	1/2" NPT	Nylon	CO100, CO103, CO115

Pipe Plug Assemblies for Cylindrical Coupons

P/N	NPT	Used with Coupon P/N
RC16Q3040000	2"	ES200, ES201, ES202, ES204, ES205
RC12Q3040000	3/4"	ES200, ES201, ES202, ES204, ES205
RC13Q3040000	1"	ES200, ES201, ES202, ES204, ES205
RC11Q3040000	1/2"	ES200, ES201, ES202, ES204, ES205



Post Exposure Coupon Analysis



Metal Samples offers post exposure coupon analysis. Our trained technicians will determine weight loss analysis and mils per year (MPY) corrosion rates of your exposed test samples. We are in strict adherence to procedures established by ASTM for cleaning and analyzing the coupons. When using this service, ensure that initial coupon weights, exposure dates, and locations are recorded for each sample. This information can be recorded on the front of our VCI coupon storage bags.

Coupon Storage Bags

Vapor corrosion inhibitor (VCI) bags are excellent for storage of ferrous and non-ferrous coupons. With VCI bags, coupons can be protected from corrosion for up to one year when stored under the proper environment conditions. Pertinent test data regarding pre- and post- coupon exposure can be recorded in the appropriate spaces on the front of the bag. Ask for P/N 5001 when ordering these bags.

