

Rosette system

Clean rosette components:

12 x 12 L Go Flo bottles with modified air vents and sampling taps.

Air vents are : Swagelok "Male connector, O-ring seal, straight thread" PN NY-600-1-OR \$5.80 each. Use a Teflon nut for the air vent caps, Swagelok (part number T-602-1) much easier to connect/disconnect.

Sample valves are: Teflon plug valves Cole Parmer: PN A-06392-31 \$77.00 each
We also paid to have the slots and wire clamps on the Go Flo bottle opened out so that they could accommodate 0.38 Kevlar. This was done so that in an emergency (failure of entire ctd system) the Go Flo bottles could be hung on the Kevlar and tripped by messenger. The normal slots, and cable clamps on the back of the bottles are too small to fit on the 4 conductor Kevlar. You would only do this in an emergency since clamping the bottles to the Kevlar might well destroy the conductors in the cable.

GO Frame and mount stand, powder coated by a separate vendor.

GO epoxy paint on original frame came off easily, powder coating is fairly expensive, but is holding up well (300 plus deployments). Seabird might be able to provide a frame to fit GO bottles.

Recovery hooks: We have made our own and had them powder coated, then covered with garden hose and electrical tape.

SBE 911 and SB 43 oxygen sensor, Wet labs FL 1 fluorometer, deck box modem etc.

Have worked well, SBE 911 is ctd system of choice for large hydrography programs, i.e. others have expertise you can rely on, and maybe spares.

Kevlar cable, 0.38" 4 conductor twisted pair #18 AWG. You only need two conductors, we chose 4 paired in case we had a break in one conductor, we could still work. Breaking strain maybe overkill, but worth it given the cost of the package relative to the cost of the cable. You need the termination done and it would be wise to get a spare termination kit and instructions for use.

Nylatron block and read out.

You need this non-metal block to avoid getting metal particles embedded in the Kevlar. Whether you need the overpriced readout or not depends on how you are going to keep an eye on the wireout. If your winch has an independent wire out readout you do not need this. But you do need some kind of read out so you can compare the pressure reading you get from the ctd package with the wire out--tells you if there is a problem with towing the package.