



GENERAL OCEANICS INC.

INTELLIGENCE IN ENGINEERING AND MANUFACTURING

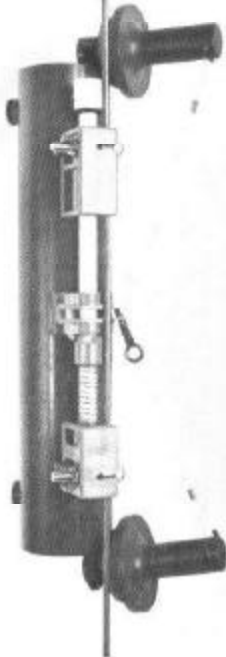
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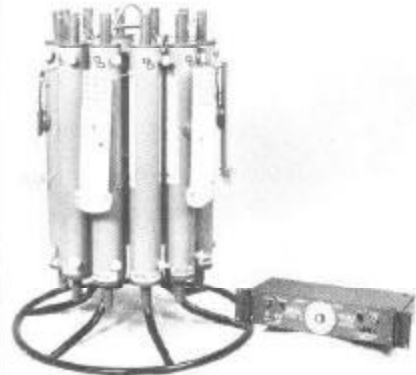
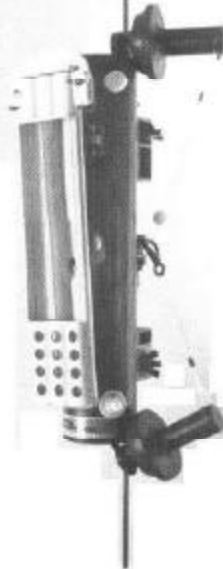
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NISKIN NON-METALLIC WATER SAMPLING BOTTLES Model 1010 Series



Model 1010

1.7-liter Niskin bottle without (left) and with (right) 3-thermometer reversing assembly.



Model 1015 series Rosette[®] with a 3-thermometer reversing assembly on every other of the 12 2.5-liter Niskin bottles (model 1010). Rack mountable deck command unit on right.

DESCRIPTION

Non-metallic free-flushing sampling bottles activated by GO Devil messenger (1000-MG) when individually or serially attached to hydrocable. Sequential closure by remote command with model 1015 Rosette[®] multibottle array, or with model AR1015 Acoustic Command Control option. (See data sheet 1015-12/85.)

SPECIFICATIONS

Mounting: Cable clamps on 1.2- to 12-liter bottles are for cable diameters up to and including 6.4mm (1/4"). Clamps on larger bottles are for diameters up to and including 8.0mm (5/16").

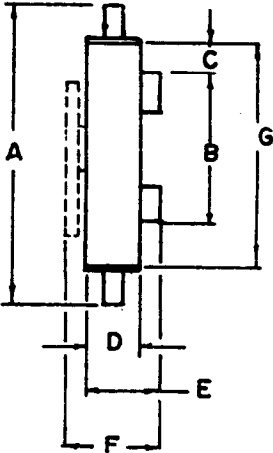
Material: Non-metallic construction of PVC tube section, end stoppers, handles and cable clamp blocks (aluminum on 30-liter bottle). Delrin stopcocks, air vent screws and push rod. Stainless steel cable clamps. End stopper closure band of latex tubing. Buna-N O-ring seals (other materials available). Nylon monofilament lanyards.

End Closure: Stopper with spherical section sealing surface held firmly against O-ring seal by internal latex tubing.

Drainage: Thumbscrew air vent at top. Stopcock at base: 4.7mm (.187") diameter, except for 20- and 30-liters bottles, which have a second, larger basal stopcock (9.52mm, .375mm) for rapid drainage.

Dimensions: See overleaf for dimensions and weights of 1.2-, 1.7-, 2.5-, 5-, 8-, 10-, 12-, 20-, 30-liter bottles.

Optional: Teflon coating, stainless steel springs with Teflon or epoxy coating.

		BOTTLE CAPACITY (liters)									
		1.2	1.7	2.5	5	8	10	12	20	30	
	A	inch	30	25.0	33.5	27.2	35.2	41.8	47.9	35.6	46.4
		mm	762	633	851	692	895	1060	1216	905	1178
	B	inch	13	13	13	13	13	13	13	13	13
		mm	330	330	330	330	330	330	330	330	330
	C	inch	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
		mm	63	63	63	63	63	63	63	63	63
	D	inch	2.4	3.5	3.5	5.6	5.6	5.6	5.6	8.6	8.6
		mm	61.0	89.0	89.0	142.0	142.0	142.0	142.0	218.0	218.0
	E	inch	4.4	5.5	5.5	7.6	7.6	7.6	7.6	10.7	10.7
		mm	111	139	139	192	192	192	192	273	273
	F	inch	6.9	8.0	8.0	10.1	10.1	10.1	10.1	13.3	13.3
		mm	176	204	204	257	257	257	257	338	338
	G	inch	28.5	18.0	26.5	18.0	26.0	32.5	39.0	25.2	36.0
		mm	724	457	673	457	660	826	991	641	914
	EMPTY WEIGHT	lb	4.5	5.5	6.5	8.0	10.0	12.5	13.5	25.0	28.0
		kg	2.0	2.5	3.0	3.6	4.5	5.7	6.1	11.4	12.7
	FULL* WEIGHT	lb	7.1	9.2	12.1	19.0	27.6	34.5	39.9	69.0	94.1
		kg	3.24	4.20	5.50	8.63	12.54	15.68	18.13	31.35	42.71
	END OPENING	inch	1.9	2.9						5.0	
		mm	48.3	74						127	

*Add 0.45 kg (1 lb) for reversing thermometer assembly.
Add 0.22 (0.5 lb) for each thermometer.

STANDARD ORDER

Standard order includes bottle, clamp bolts for attachment on cable (see overleaf) and mounting block to attach to Rosette® multibottle array. Specify bottle size. Order messenger additionally. Order thermometer-reversing assemblies additionally. Order teflon coating additionally. Latex tubing is the standard bottle-closing mechanism; stainless steel spring (teflon or polyester resin coating) is optional.

COMPONENTS AND ACCESSORIES

3- and 4-thermometer-reversing assemblies. See below.

Niskin model 1010 bottle repair kit containing end plug stopcock assembly, air vent screw, latex tubing, cable clamp, PVC cement, O-rings, 2 stainless steel clamps (not in 20- and 30-liter kits), brass snap, Nicropress clamps, misc. hardware. Specify bottle capacity when ordering kit.

Niskin model 1010 bottle O-ring kits. Specify bottle capacity.

Other parts and assemblies available additionally.

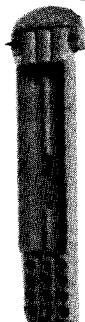
MAINTENANCE PROGRAM MRP-2

With this program, at nominal cost per bottle, equipment may be returned for factory maintenance as follows:

(1) Inspection & thorough cleaning of all parts, (2) Replacement of O-ring seals as required, (3) Replacement of latex tubing where required, (4) Replacement of end-stopper lanyards as needed, (5) Test of overall operation & watertightness, (6) Return of equipment to customer, shipping charges prepaid.

Customer will be notified of any need for repairs, along with an estimate for parts and labor costs.

Upon completion of maintenance and any repairs, normal warranty on parts and labor will be renewed for another year.



Model 1000-3 3 thermometer reversing assembly.

REVERSING THERMOMETER ASSEMBLY* MODELS 1000-3 and 1000-4

DESCRIPTION

Non-metallic (high-impact ABS plastic) 3-thermometer (model 1000-3) and 4-thermometer (model 1000-4) reversing assemblies are easily mounted on existing bottles, or can be factory installed on new bottles. The rack portion of the assembly is removable and interchangeable.

STANDARD ORDER

Standard order includes reversing assembly consisting of removable thermometer rack, reversing pulley-mount saddle sub-assembly, and anchor block for attachment of latex drive band. Specify 3- or 4-thermometer capacity. Specify bottle capacity for which reversing assembly is intended.

* Covered Under One or More of the Following U.S. and Foreign Patents: 232,922; 235,422; 245,483; 245,484; 245,485; 245,486; 245,487; 612,482; 3,044,811; 3,102,743; 3,155,174; 3,242,740; 3,339,417; 3,372,585; 3,412,498; 3,425,664; 3,489,012; 3,489,987; 3,537,062; 3,688,433; 3,729,855; 3,793,889; 3,815,422; 3,836,120; 3,869,913; 3,937,078; 3,955,412; 3,969,925; 3,970,156; 3,971,251; 3,986,635; 4,026,148; 4,037,477; 4,091,666; 4,091,676; 4,106,751; 4,295,675; 4,301,995; 4,302,974; 4,307,605; 4,347,751; 4,350,931; 4,417,718; 4,492,363; 4,545,243.