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Niskin-X External Spring Water Sampling Bottles *Model 1010X Series*



5-liter Niskin-X bottle without 3-thermometer reversing assembly.

Introduction

Now you can have the simplicity and reliability of a Niskin water sampler and have a completely unobstructed sample chamber. Stainless steel end plug closure springs are located externally to the sample chamber. Conversion kits are available for existing Niskin sample bottles.

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, or 1016 Rosette? multibottle array, or with model AR1015 Acoustic Command Control option.

Specifications

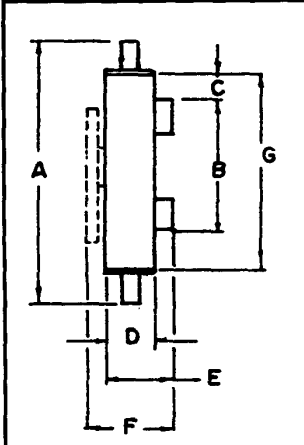
Mounting: Cable clamps on 1.2 to 12-liter bottles are for cable diameters up to and including 6.4mm (1/4"). Clamps on larger bottles are for diameters up to and including 8.0mm (5/16").

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 and external springs. 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 external stainless steel springs.

Drainage: Thumbscrew air vent at top. Stopcock at base: 4.7mm (.187") diameter, except for 20-30-liter 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, 30-liter bottles.

			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		

Optional: Teflon coating.

Add 0.45 kg (1 lb) for each reversing 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. Stainless steel external springs are the standard bottle-closing mechanism.

Components and accessories

3-thermometer-reversing assembly.

Niskin model 1010 bottle repair kit containing end plug, stopcock assembly, air vent screw, stainless steel springs, cable clamp, PVC cement, O-rings, 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 end-stopper lanyards as needed, (4) Test overall operation & water tightness, (5) Return of equipment to customer, shipping charges prepaid.

Reversing Thermometer Assembly

Model 1000-3

Description

Non-metallic (high-impact ABS plastic) 3-thermometer (model 1000-3) 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 bottle capacity for which reversing assembly is intended.



