



SBE 43 Configurations

Family	.	Housing	Connector	Membrane	Plenum
43	.	1 – 600 m (plastic)	1 – XSG	1 – 0.5 mil (profiling)	1
		2 – 7000 m (titanium)	2 – MCBH	2 – 1.0 mil (moored)	

Example: 43.1211 is an SBE 43 with 600 m housing, MCBH connector, and 0.5-mil membrane for profiling applications. See table below for description of each selection:

PART #	DESCRIPTION	NOTES
43	<p>DISSOLVED OXYGEN SENSOR - Sea-Bird polarographic membrane sensor for pumped CTD applications, 0-5 volt temperature-compensated oxygen signal. Includes plenum & complete documentation.</p>	 <p>SBE 43 can be ordered in several ways:</p> <ul style="list-style-type: none"> • By itself; consult Sea-Bird to order interface cable or mount kit separately, if needed. • As an option in SBE 9plus, 16plus V2, 16plus-IM V2, 19plus V2, or 25plus listing, complete with sensor, CTD interface cable, & mount kit. <p>For sensor with frequency output, compatible with SBE 52-MP Moored Profiler CTD or Glider Payload CTD, see SBE 43F below. Another version of 43F is an integral part of SBE 37 MicroCAT (SIP-IDO).</p>

SBE 43 Housing Selections — MUST SELECT ONE

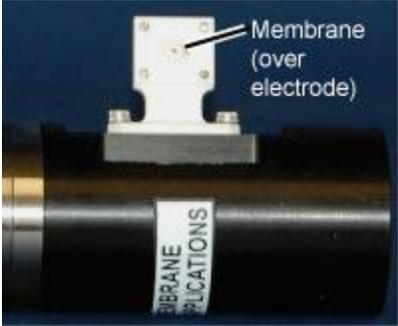
43.1xx1	600 m plastic housing	<p>SBE 43 is available in plastic (600 m) or titanium (7000 m) housing.</p> 
43.2xx1	7000 m titanium housing	

SBE 43 Connector Selections — MUST SELECT ONE

43.x1x1	XSG connector	<p>Wet-pluggable connectors may be mated in wet conditions. Their pins do not need to be dried before mating. By design, water on connector pins is forced out as connector is mated. However, they must not be mated or un-mated while submerged. Wet-pluggable connectors have a non-conducting guide pin to assist pin alignment & require less force to mate, making them easier to mate reliably under dark or cold conditions, compared to XSG/AG connectors. Like XSG/AG connectors, wet-pluggables need proper lubrication & require care during use to avoid trapping water in sockets.</p>
43.x2x1	Wet-pluggable (MCBH) connector	

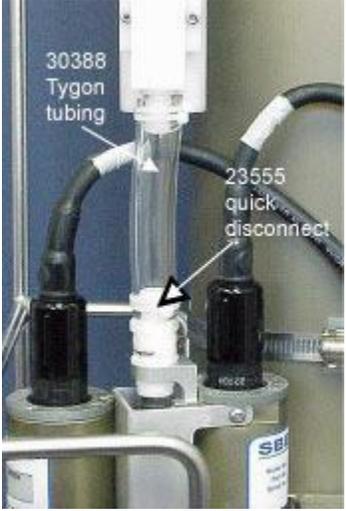
		 <p data-bbox="1182 468 1243 495">XSG</p> <p data-bbox="816 512 1268 583">connector shown; photo of MCBH connector not available</p>
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SBE 43 Membrane Selections — MUST SELECT ONE

<p data-bbox="217 854 318 882">43.xx11</p>	<p data-bbox="386 854 756 1062">0.5-mil membrane, Profiling configuration (fast response membrane, includes dynamic response characterization)</p>	 <p data-bbox="1068 877 1187 957">Membrane (over electrode)</p> <p data-bbox="1222 1161 1276 1188">See</p> <p data-bbox="816 1203 1325 1274">Application Note 64 for information on response times for each membrane.</p>
<p data-bbox="217 1186 318 1213">43.xx21</p>	<p data-bbox="386 1186 756 1478">1.0-mil membrane, Mooring configuration (slower response rugged membrane for enhanced long term stability, dynamic response characterization omitted)</p>	

SBE 43 Spares & Accessories

171491	SBE 43 interface cable, AG/RMG connectors (9plus), 0.7 m (DN 32496)	<p>These interface cables are compatible with SBE 9plus, 19plus, 19plus V2, 25, or 25plus if connecting just SBE 43 to bulkhead connector. If connecting 2 sensors to 1 bulkhead connector, a Y-cable is required in place of one of these straight cables.</p> <p>Note: 172447 and 172448 are also used for integrating SBE 43 with SBE 16plus, 16plus-IM, 16plus V2, or 16plus-IM V2. However, for moored applications, Sea-Bird usually recommends SBE 63 Optical Dissolved Oxygen Sensor instead of SBE 43.</p>
172447	SBE 43 interface cable, AG/RMG connectors (19plus/19plus V2/25/25plus), 1.1 m (DN 32496)	
172218	SBE 43 interface cable, Wet-pluggable connectors (9plus), 0.7 m (DN 32654)	
172448	SBE 43 interface cable, Wet-pluggable connectors (19plus/19plus V2/25/25plus), 1.1 m (DN 32654)	
801617	SBE 43 Plenum Assembly, Version 2, Black Acetal	
50126	SBE 43 mount kit for SeaCATs	<p>For mounting SBE 43 to SBE 16, 16plus, 16plus-IM, 16plus V2, 16plus-IM V2, 19, 19plus, or 19plus V2 SeaCAT.</p>

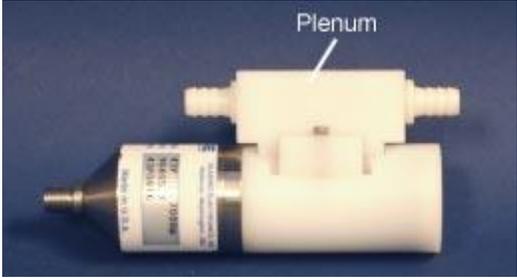
<p>50109</p>	<p>SBE 43 mount kit for SBE 9plus</p>	
<p>50355</p>	<p>SBE 43 mount kit for SBE 25/25plus (hose clamp)</p>	
<p>90087</p>	<p>Universal plumbing kit (includes pump air release valve, Y-fitting, and tubing) — Application note 64-1</p>	<p>Application Note 64-1 details installation of plumbing for SBE 43 & pump on CTD.</p>
<p>30388</p>	<p>Tygon tubing, 1/2" ID x 3/4" OD, 2 m — main plumbing</p>	 <p>30388 is main plumbing, attaches to pump, conductivity sensor, 1/2" nylon hose barb Y-fitting, etc. (photo shows 30388 tubing with SBE 9plus).</p>

31450	Tygon tubing, 1/2" ID X 3/4" OD, 2 m, Black — main plumbing, minimizes light exposure	31450 can be used in place of 30388 plumbing tubing to minimize exposure to light, improving resistance to bio-fouling for moored applications. Sea-Bird uses this black tubing on all moored instruments (SBE 16plus/ 16plus V2 and 16plus-IM/ 16plus-IM V2 CTDs). Customers may field retrofit plumbing on existing systems.
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Family	Model	.	Housing	Connector	Membrane	Plenum
43	F	.	1 – 600 m (plastic)	1 – IE55	1 – 0.5 mil (profiling)	2 - Curved; for SBE 41, 41CP, 52MP
			2 – 7000 m (titanium)			3 - Flat; for Glider Payload CTD (GPCTD)

Example: 43F.1112 is an SBE 43F with 600 m housing, IE55 connector, 0.5-mil membrane for profiling applications, and curved plenum. See table below for description of each selection:

PART #	DESCRIPTION	NOTES
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<p>43F</p>	<p>Dissolved Oxygen Sensor - Sea-Bird polarographic membrane sensor (fast response) for SBE Integrated CTD-DO profilers or OEM applications (Not compatible with SBE 9plus, 25/25plus, 19/19plus/19plusV2 or 16/16plus/16plusV2. Requires OEM circuit board - 41147). Temperature-compensated oxygen signal is a frequency output. IE55 3-pin connector. Includes plenum and complete documentation. (Order application specific interface cable separately - consult factory).</p>	<p>SBE 43F can be integrated with SBE 52-MP Moored Profiler CTD or Glider Payload CTD.</p> <p>Another version of 43F is an integral part of SBE 37 MicroCAT (SIP-IDO).</p> <p>For sensor with 0 - 5 volt output, compatible with most Sea-Bird CTDs, see SBE 43 above.</p> <p>Shown with 7000 m titanium housing</p> 
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SBE 43F Housing Selections — MUST SELECT ONE

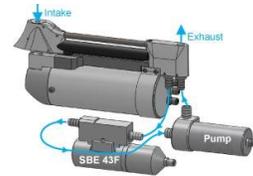
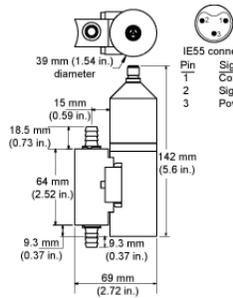
<p>43F.111x</p>	<p>600 m plastic housing</p>	
<p>43F.211x</p>	<p>7000 m titanium housing</p>	

SBE 43F DO Plenum Selections — MUST SELECT ONE

43F.x112

**Plenum for use with
SBE 41, 41CP, 52MP**

**Plenum for SBE 43F for use with SBE 41,
41CP, or 52-MP has a curved surface to allow
for easy clamping to conductivity cell guard.**



**SBE 43F with
curved plenum
(43F.x112)**

**SBE 43F with flat
plenum (43F.x113) for
integration with
Glider Payload CTD**