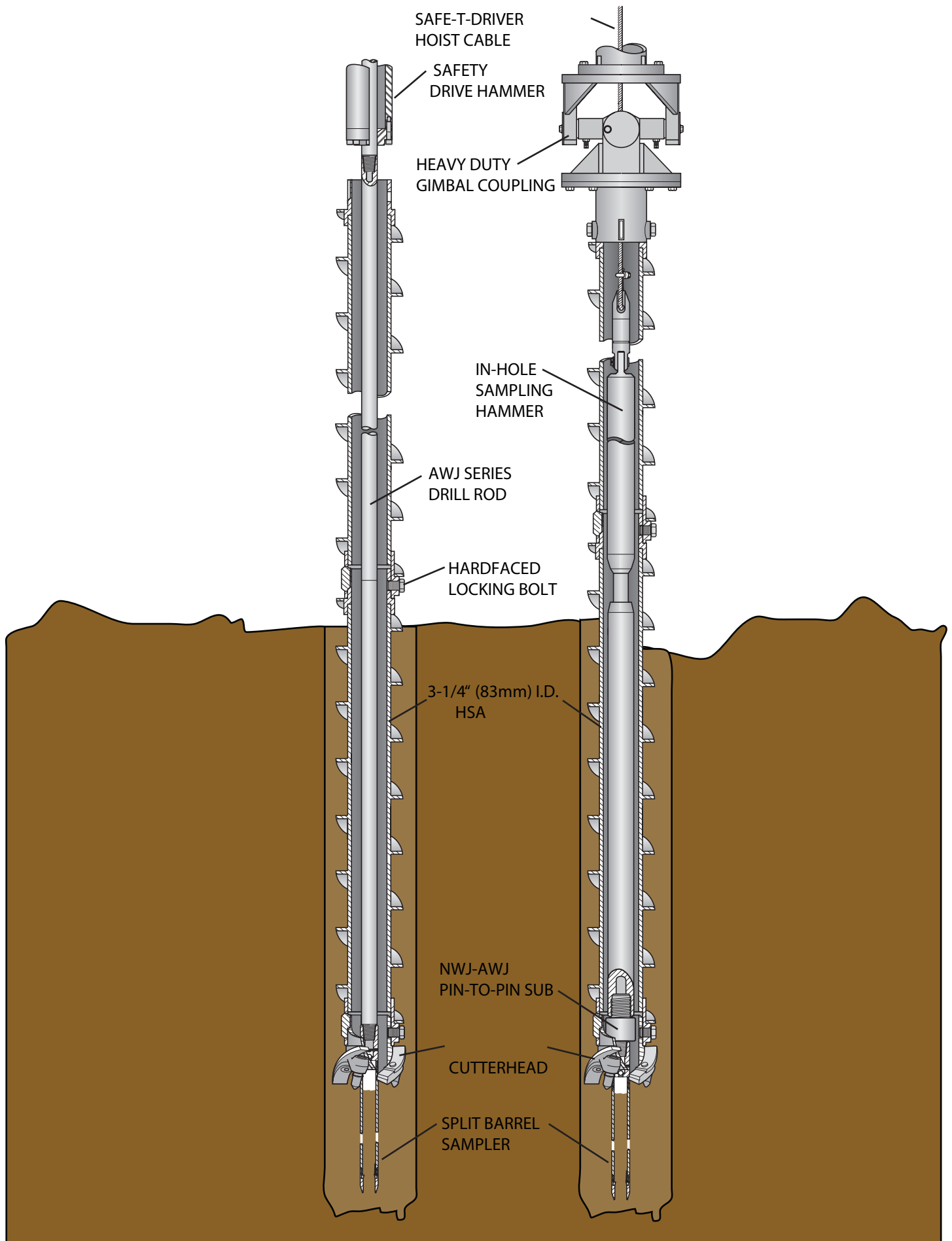
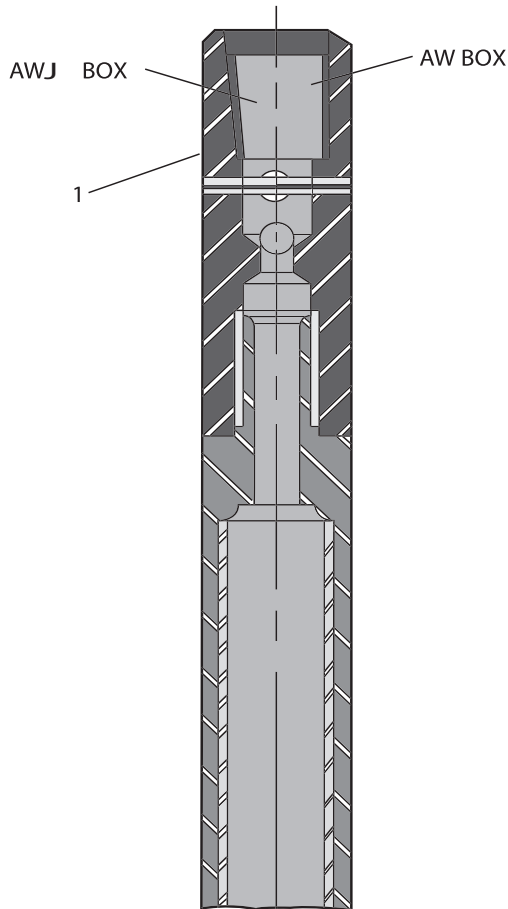


# Soil Sampling Tools



# LYNAC<sup>®</sup> Split Barrel Sampler

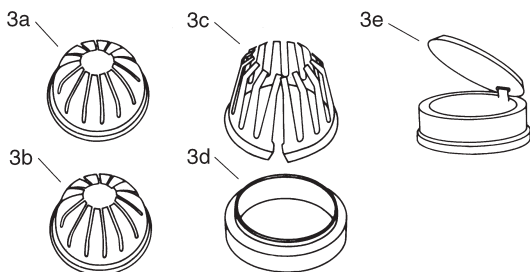
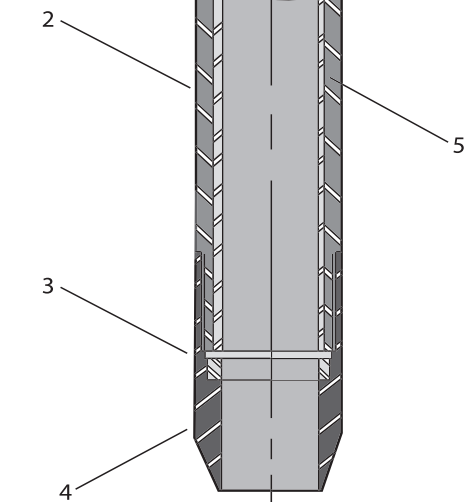


LYNAC<sup>®</sup> Sampler is an industry standard split barrel sampler. It includes a shoe, barrel and head with optional “fast threads” to speed assembly and disassembly. Optional tapered threads (AWJ). Normally driven by a 140 lb. Safety Hammer, an In-Hole Sampling Hammer or SPT Automatic Hammer. The sampler barrel has a tongue and groove design to facilitate reassembly of the barrel and a heat-treated shoe to better withstand severe driving conditions. In addition, a ball check valve prevents wash-out during removal from the hole and the shoe design accommodates a Flap Valve or Spring Retainer. Recommended for all Standard Penetration Test procedures. Sizes are identified by sampler O.D.

Description	Part #	lb./kg.
<b>SAMPLER ASSEMBLY: TERZAGHI (BLUNT) SHOE</b>		
1'6" (457mm), AW	67039-12	14 (6.4)
2'0" (610mm), AW	67039-17	17 (7.7)
1'6" (457mm), AWJ	67039-02	14 (6.4)
2'0" (610mm), AWJ	67039-07	17 (7.7)
<b>SAMPLER ASSEMBLY: ASTM (SHARP) SHOE</b>		
1'6" (457mm), AW	67039-11	14 (6.4)
2'0" (610mm), AW	67039-16	17 (7.7)
1'6" (457mm), AWJ	67039-01	14 (6.4)
2'0" (610mm), AWJ	67039-06	17 (7.7)

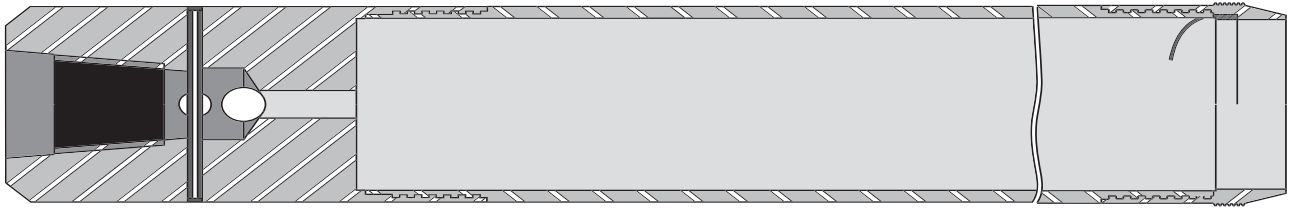
**Specify 4TPI or 8TPI when Ordering**

## Component Parts



Ref	Description	Part #	lb./kg.
1	Head Assembly, AW Box	67024-06	4 (1.8)
1	Head Assembly, AWJ Box	67024-05	4 (1.8)
2	Split Barrel: 1'6" (457mm), Set of 2	67025-16	9 (4.1)
2	Split Barrel: 2'0" (610mm), Set of 2	67025-17	10 (4.5)
3	Spacer (for use w/o retainer or flap valve)	190006-01	
3a	Basket Retainer, Heavy Duty, Steel	002417	
3b	Basket Retainer, Light Duty, Plastic	PB2-I	
3c	Spring Retainer, Light Duty, Steel (006746 req'd)	005420	
3d	Adapter Ring (for use with 005420)	006746	
3e	Flap Valve, Heavy Duty, Steel	002421	
4	Blunt Shoe	190071-05	1 (.5)
4	Sharp Shoe	190071-06	1 (.5)
5	Plastic Liner, 1'6" (457mm)	190138-04	
5	Plastic Liner, 2'0" (610mm)	190138-05	

# Standard Split Barrel Samplers



This split tube sampler is designed for taking soil samples at the bottom of the cleaned bore hole by the drive weight method. The split section is held together with a ball check head and a hardened steel drive shoe. The ball check feature in the head prevents samples from being washed out of sampler upon withdrawal from the hole. The sampler is designed to accommodate a brass, plastic, or paper tube liner for collecting and carrying samples to the field office. Two sample lengths are available. Note steps in tube design ... DrillingWorld's heat treated drive shoe is recessed to accommodate various accessories.

All assemblies are designed to accommodate liners which facilitate transportation of samples to laboratory without disturbing soil samples.

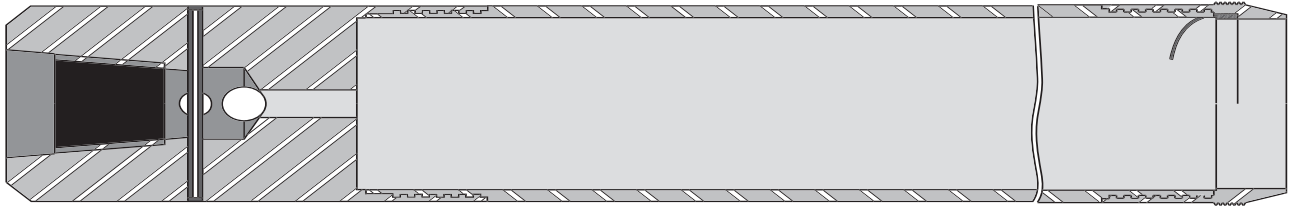
- Stainless steel sampler assemblies and tubes are now available to meet your environmental sampling requirements -

Standard Split Tube Sampler							
With Heat Treated Shoes							
Size	Shoe I.D.	Conn.	Sample Length		Part Number	Weight	
			inches	mm.		lbs.	kg.
2" O.D. x 1-1/2" I.D. (50.8mm. x 38.1mm.)	1-3/8" (34.9mm.)	AW	18	457.2	22017-2	10.5	4.8
			24	609	22017-9	12.5	5.6
2-1/2" O.D. x 2" I.D. (63.5mm. x 50.8mm.)	1-7/8" (47.6mm.)	AW	18	457.2	22018-2	15	6.7
			24	609	22018-4	17.5	7.9
3" O.D. x 2-1/2" I.D. (76.2mm. x 63.5mm.)	2-3/8" (60.3mm.)	NW	18	457.2	22019-3	19.5	8.8
			24	609	22019-4	23	10.4
3-1/2" O.D. x 3" I.D. (88.9mm. x 76.2mm.)	2-7/8" (73.0mm.)	NW	18	457.2	22022-2	22	9.9
			24	609	22022-6	25	11.3
4-1/2" O.D. x 4" I.D. (113.7mm. x 101.0mm.)	3-7/8" (98.4mm.)	NW	18	457.2	22020-3	33.5	15.1
			24	609	22020-4	41.5	18.7

Stainless Steel Split Tube Sampler							
Size	Shoe I.D.	Conn.	Sample Length		Part Number	Weight	
			inches	mm.		lbs.	kg.
2" O.D. x 1-1/2" I.D. (50.8mm. x 38.1mm.)	1-3/8" (34.9mm.)	AW	24	609	22017-19	10.2	4.6
3" O.D. x 2-1/2" I.D. (76.2mm. x 63.5mm.)	2-3/8" (60.3mm.)	AW	24	609	22019-13	18.9	8.6

# Standard Split Barrel Samplers

## Standard Split Tube Sampler Components

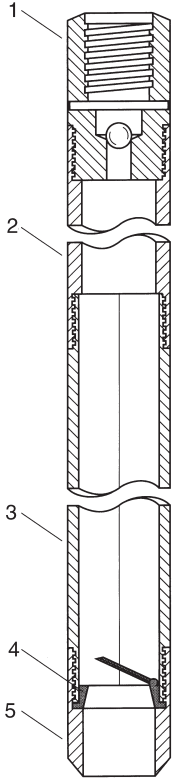


Options and Spare Parts															
Standard Split Tube Sampler															
Description	2" O.D.			2-1/2" O.D.			3" O.D.			3-1/2" O.D.			4-1/2" O.D.		
	Part	Weight		Part	Weight		Part	Weight		Part	Weight		Part	Weight	
	Number	lbs.	kg.	Number	lbs.	kg.	Number	lbs.	kg.	Number	lbs.	kg.	Number	lbs.	kg.
Head Assembly "W"	22036-7	3	1.4	22036-4	6	2.7	22036-10	8	3.6	22036-2	9	4.1	22036-12	11	5
Tube - 18"	22016-6	10	4.5	22016-2	12	5.5	22016-8	11	5	22016-1	14	6.4	22016-10	15	6.8
Tube - 24"	22016-7	11	5	22016-12	15	6.8	22016-9	12	5.5	22016-24	15	6.8	22016-11	16	7.3
Open Shoe - Blunt 1/16"	120062-4	1	.45	120062-2	1	.45	120062-7	2	0.9	120062-1	2	0.9	120062-8	3	1.4
Open Shoe - ASTM 1/16"	120062-5	1	.45	---	---	---	---	---	---	---	---	---	---	---	---
Spacer**	150035-272	*	*	150035-273	*	*	150035-274	*	*	150035-275	*	*	150035-276	*	*
Brass Liner - 18"	120060-7	2	.9	120060-2	2	0.9	120060-10	3	1.4	N/A	---	---	N/A	---	---
Brass Liner - 24"	120060-16	2	.9	120060-18	2.5	1.3	120060-19	3	1.4	N/A	---	---	N/A	---	---
Teflon Liner - 18"	120966-1	*	*	N/A	---	---	N/A	---	---	N/A	---	---	N/A	---	---
Teflon Liner - 24"	120966-2	*	*	N/A	---	---	N/A	---	---	N/A	---	---	N/A	---	---
Clear Plastic Liner - 18"	120878-1	*	*	120878-7	*	*	120878-9	*	*	120878-10	*	*	N/A	---	---
Clear Plastic Liner - 24"	120878-2	*	*	120878-8	*	*	120878-3	*	*	120878-11	*	*	N/A	---	---
Plastic Cap	90367-35	*	*	90367-43	*	*	90367-49	*	*	90367-55	*	*	N/A	---	---
Special Coupling	120161-1	1	.45	120161-2	1	.45	120161-3	1	.45	120161-4	1	.45	120161-5	1	.45

# Split Barrel Samplers

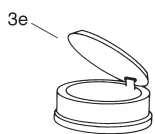
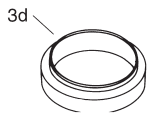
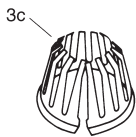
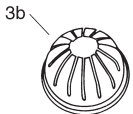
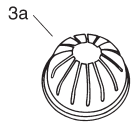
## (California Modified)

All-purpose sampler used for visual classification, contamination content and moisture determination. The split barrel permits removal of sample as it is taken from the ground. Generally driven by a 140 lb (63.5kg) safety hammer, an in-hole sampling hammer or SPT Automatic Hammer. Samplers are available with both standard and (AWJ) thread design. Sizes are identified by sampler O.D.



### 4 Threads Per Inch Split Barrel Sampler

Sampler OD	Sampler ID	Shoe ID	Length Barrel	Rod Conn.	Shoe Type		Weight	
					(Blunt)	(Sharp)	lb	kg
2" (50.8mm)	1.5" (38.1mm)	1.375" (34.9mm)	18 (457.2mm)	AW	67006-13	67006-14	13.6	6.2
				AWJ	67006-15	67006-16	13.6	6.2
			24 (609.6mm)	AW	67006-17	67006-18	16	7.3
				AWJ	67006-19	67006-20	16	7.3
2.5" (63.5mm)	2" (50.8mm)	1.875" (47.6mm)	18 (457.2mm)	AW	67007-01	67007-02	18.9	8.6
				AWJ	67007-05	67007-06	18.9	8.6
			24 (609.6mm)	AW	67007-03	67007-04	22.4	10.2
				AWJ	67007-07	67007-08	22.4	10.2
3" (76.2mm)	2.5" (63.5mm)	2.375" (60.3mm)	18 (457.2mm)	NW	67008-13	67008-14	26.3	11.9
				NW	67008-15	67008-16	28	12.7
			24 (609.6mm)	NWJ	67008-17	67008-18	26.3	11.9
				NWJ	67008-19	67008-20	28	12.7



### 8 Threads Per Inch Split Barrel Sampler

Sampler OD	Sampler ID	Shoe ID	Length Barrel	Rod Conn.	Shoe Type		Weight	
					(Blunt)	(Sharp)	lb	kg
2" (50.8mm)	1.5" (38.1mm)	1.375" (34.9mm)	18 (457.2mm)	AW	67006-10	67006-09	13.6	6.2
				AWJ	67006-04	67006-03	13.6	6.2
			24 (609.6mm)	AW	67006-12	67006-11	16	7.3
				AWJ	67006-06	67006-05	16	7.3
2.5" (63.5mm)	2" (50.8mm)	1.875" (47.6mm)	18 (457.2mm)	AW	007104	006434	18.9	8.6
				AWJ	67007-09	67007-10	18.9	8.6
			24 (609.6mm)	AW	007105	007100	22.4	10.2
				AWJ	67007-11	67007-12	22.4	10.2
3" (76.2mm)	2.5" (63.5mm)	2.375" (60.3mm)	18 (457.2mm)	NW	007109	006437	26.3	11.9
				NW	007111	007110	28	12.7
			24 (609.6mm)	NWJ	67008-04	67008-03	26.3	11.9
				NWJ	67008-06	67008-05	28	12.7

# Split Barrel Samplers

## 4 Threads Per Inch Split Barrel Sampler - Components

Ref. No.	Description	2. OD (50.8mm)			2.5. OD (63.5mm)			3.0. OD (76.2mm)		
		Part No.	Weight		Part No.	Weight		Part No.	Weight	
			lbs.	kg		lbs.	kg		lbs.	kg
1	Head Assy, w/ AW Box Connection	67021-14	2.3	1	67021-15	4	1.8	67021-22	†	†
1	Head Assy, w/ AWJ Box Connection	67021-16	2.3	1	67021-21	†	†	67021-23	†	†
1	Head Assy, w/ NW Box Connection	N/A	—	—	N/A	—	—	67021-17	—	—
1	Head Assy, w/ NWJ Box Connection	N/A	—	—	N/A	—	—	67021-19	—	—
2	Waste Barrel	006069	†	†	006070	†	†	006071	†	†
3	18. (457.2mm) Split Barrel	67022-17	6.6	3	67022-18	8.3	3.8	67022-19	11	5
3	24. (609.6mm) Split Barrel	67022-21	8.8	4	67022-22	11	5	67022-23	13	5.9
4	Spacer	190006-01	*	*	190006-02	*	*	190006-03	*	*
5	Shoe, Terzaghi (blunt)	190071-40	1	0.5	190071-41	1.6	0.7	190071-42	2	0.9
5	Shoe, ASTM (sharp)	190071-44	1	0.5	190071-45	1.6	0.7	190071-46	2	0.9
<b>Optional Accessories</b>										
	18. (457.2mm) Plastic Liner	190077-02	*	*	†	†	†	†	†	†
	24. (609.6mm) Plastic Liner	190077-03	*	*	†	†	†	†	†	†
	Spring Retainer (light duty steel)	005420	*	*	†	†	†	†	†	†
	Adaptor Ring (for light duty steel)	006746	*	*	†	†	†	†	†	†
	Basket Retainer (heavy duty)	PB2-I	*	*	PB2.5-I	*	*	PB3-I	*	*
	Basket Retainer (plastic)	190165	*	*	190165-05	*	*	190177	*	*
	Flap Valve	002421	*	*	002422	*	*	002423	*	*

## 8 Threads Per Inch Split Barrel Sampler - Components

Ref. No.	Description	2. OD (50.8mm)			2.5. OD (63.5mm)			3.0. OD (76.2mm)		
		Part No.	Weight		Part No.	Weight		Part No.	Weight	
			lbs.	kg		lbs.	kg		lbs.	kg
1	Head Assy, w/ AW Box Connection	67021-02	2.3	1	006340	4	1.8	67021-25	†	†
1	Head Assy, w/ AWJ Box Connection	67021-01	2.3	1	67021-24	†	†	67021-26	†	†
1	Head Assy, w/ NW Box Connection	N/A	—	—	N/A	—	—	6341	—	—
1	Head Assy, w/ NWJ Box Connection	N/A	—	—	N/A	—	—	67021-19	—	—
2	Waste Barrel	006069	†	†	006070	†	†	006071	†	†
3	18. (457.2mm) Split Barrel	67022-02	6.6	3	006078	8.3	3.8	67021-05	11	5
3	24. (609.6mm) Split Barrel	67022-03	8.8	4	006082	11	5	001113	13	5.9
4	Spacer	190006-01	*	*	190006-02	*	*	190006-03	*	*
5	Shoe, Terzaghi (blunt)	190071-01	1	0.5	007102	1.6	0.7	007112	2	0.9
5	Shoe, ASTM (sharp)	190071-02	1	0.5	002414	1.6	0.7	002415	2	0.9
<b>Optional Accessories</b>										
	18. (457.2mm) Plastic Liner	190077-02	*	*	†	†	†	†	†	†
	24. (609.6mm) Plastic Liner	190077-03	*	*	†	†	†	†	†	†
	Spring Retainer (light duty steel)	005420	*	*	†	†	†	†	†	†
	Adaptor Ring (for light duty steel)	006746	*	*	†	†	†	†	†	†
	Basket Retainer (heavy duty)	PB2-I	*	*	PB2.5-I	*	*	PB3-I	*	*
	Basket Retainer (plastic)	190176	*	*	190165-05	*	*	190177	*	*
	Flap Valve	002421	*	*	002422	*	*	002423	*	*

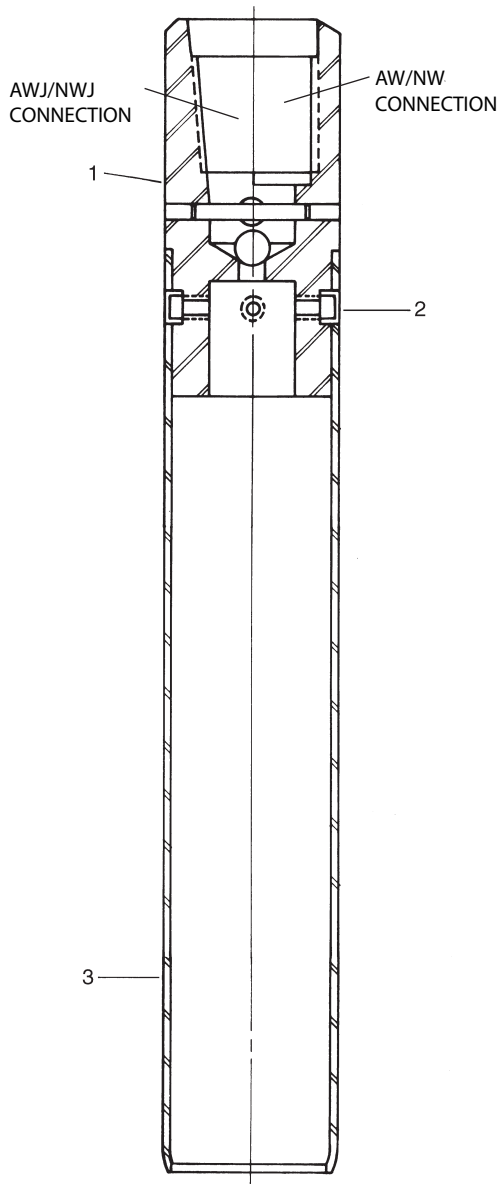
# "Shelby" Tube Sampler

This sampler is the simplest and probably most widely used of the "insitu" quality samplers. It consists of a head section which contains a check valve and drill rod box connector and a thin wall sample tube. The tube is loosely attached to the head by means of four cap screws which are turned "in", or clockwise, to remove the tube. "Shelby" samplers are furnished complete with ball valve for positive vacuum control.

Sampler should be forced down under steady pressure.

Standard tube length is 2'6" (762 mm).

Sizes are identified by sampler O.D.



## Sampler Assembly

Description	Part #	lb./kg.
2" (51mm) x 2'6" (762mm), AW Box	67010-07	9 (4.1)
2" (51mm) x 3'0" (914mm), AW Box	67010-08	10 (4.5)
2" (51mm) x 2'6" (762mm), AWJ Box	67010-01	9 (4.1)
2" (51mm) x 3'0" (914mm), AWJ Box	67010-02	10 (4.5)
3" (76mm) x 2'6" (762mm), AW Box	67013-07	11 (5)
3" (76mm) x 3'0" (914mm), AW Box	67013-08	13 (5.9)
3" (76mm) x 2'6" (762mm), AWJ Box	67013-01	11 (5)
3" (76mm) x 3'0" (914mm), AWJ Box	67013-02	13 (5.9)
3" (76mm) x 2'6" (762mm), NW Box	67013-19	17 (7.7)
3" (76mm) x 3'0" (914mm), NW Box	67013-20	18 (8.2)
3" (76mm) x 2'6" (762mm), NWJ Box	67013-13	1 (.5)
3" (76mm) x 3'0" (914mm), NWJ Box	67013-14	1 (.5)

## Component Parts

Ref	Description	Part #	lb./kg.
<b>COMPONENT PARTS: 2" (51mm) O.D.</b>			
1	Head, AW Box (with Ball & Roll Pin)	67026-06	6 (2.7)
1	Head: AWJ Box (with Ball & Roll Pin)	67026-05	6 (2.7)
2	Screw (4 required)	006404	
3	Tube: 2'6" (762mm), Steel	190044-01	3 (1.4)
3	Tube: 3'0" (914mm), Steel	190044-02	4 (1.8)
4	Cap, Plastic	006425	
<b>COMPONENT PARTS: 3" (76mm) O.D.</b>			
1	Head, AW Box (with Ball & Roll Pin)(Requires 4 screws)	67026-02	9 (4.1)
1	Head, AWJ Box (with Ball & Roll Pin) (Requires 4 screws)	67026-01	9 (4.1)
1	Head, NW Box (with Ball & Roll Pin) (Requires 4 screws)	67026-04	12 (5.4)
1	Head, NWJ Box (with Ball & Roll Pin) (Requires 4 screws)	67026-03	12(5.4)
2	Screw (4 required)	006405	
3	Tube, 2'6" (762mm), Steel+	190047-01	5 (2.3)
3	Tube, 3'0" (914mm), Steel+	190047-02	6 (2.7)
4	4 Cap, Plastic 3" (76mm)	005227	

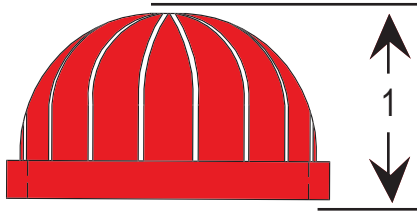
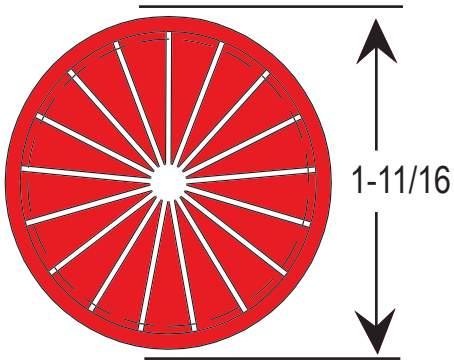
+ Galvanized tubes available.



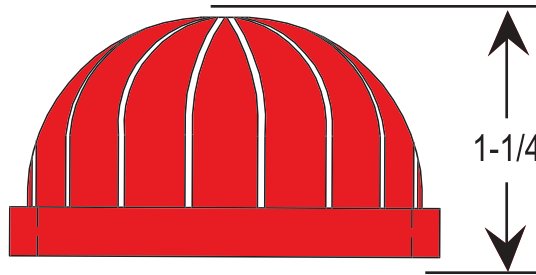
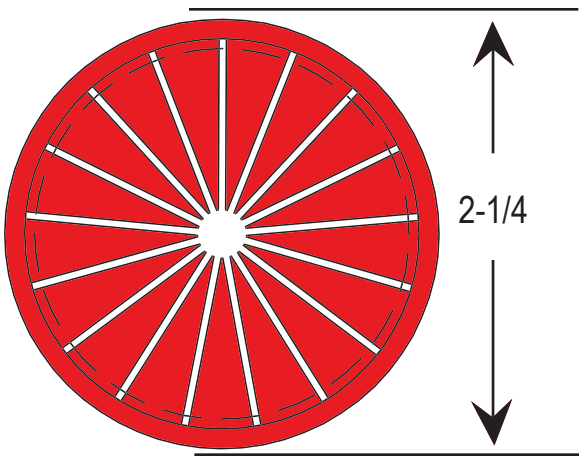
# Basket Traps

Order Basket Traps by Sampler O.D.

**PB2-I**



**PB2-1/2-I**



**PB3-I**

