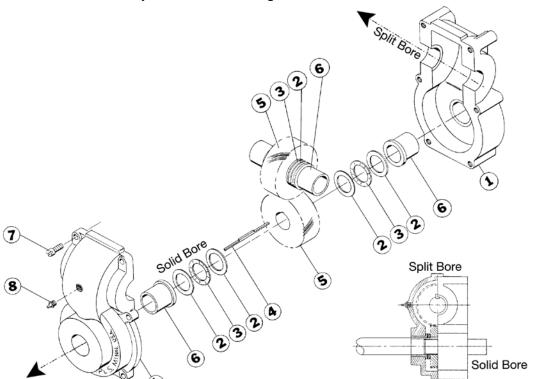


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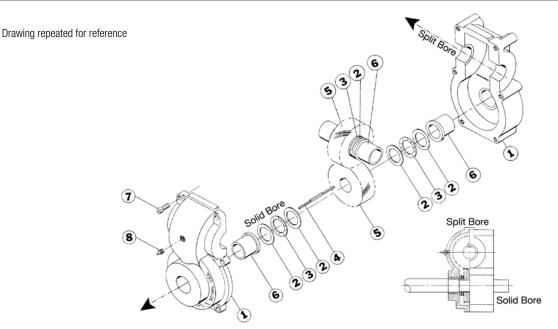
## FLOAT-A-SHAFT® Standard Series – 1:1 Ratio

Flat Base - Low Torque - Journal Bearing



MODE	L	R/LH	BORES
0246-00	000	T	3/4" X 3/4"
0245-00	000	RH	3/4" X 3/4"
0248-00	000	LH	3/4" X 1"
0247-00	000	RH	3/4" X 1"
0250-00	000	LH	3/4" X 1-1/4"
0249-00	000	RH	3/4" X 1-1/4"
0252-00	000	H	3/4" X 1-1/2"
0251-00	000	RH	3/4" X 1-1/2"
0254-00	000	LH	1" X 1"
0253-00	000	RH	1" X 1"
0256-00	000	LH	1" X 1-1/4"
0255-00	000	RH	1" X 1-1/4"
0258-00	000	LH	1" X 1-1/2"
0257-00	000	RH	1" X 1-1/2"
0270-00	000	LH	1-1/4" X 1-1/4"
0269-00	000	RH	1-1/4" X1-1/4"
0272-00	000	LH	1-1/4" X 1-1/2"
0271-00	000	RH	1-1/4" X 1-1/2"
0274-00	000	LH	1-1/2" X 1-1/2"
0273-00	000	RH	1-1/2" X 1-1/2"

											QUAN	<u> (TITI</u>										
ITEM	PART NO.	DESCRIPTION	0246-0000	0245-0000	0248-0000	0247-0000	0250-0000	0249-0000	0252-0000	0251-0000	0254-0000	0253-0000	0256-0000	0255-0000	0258-0000	0257-0000	0270-0000	0269-0000	0272-0000	0271-0000	0274-0000	0273-0000
1.	0275-9300	GEAR CASE HOUSING, FLAT BASE	1	1	1	1					1	1										
	0275-9200	GEAR CASE HOUSING, FLAT BASE					1	1	1	1			1	1	1	1						
	0275-9400	GEAR CASE HOUSING, FLAT BASE															1	1	1	1	1	1
2.	0100-1312	WASHER, THRUST, 3/4" BORE	8	8	4	4	4	4	4	4												
	0200-1334	WASHER, THRUST, 1" BORE			4	4					8	8	4	4	4	4						
İ	0200-1336	WASHER, THRUST, 1-1/4" BORE					4	4					4	4			8	8	4	4		
	0200-1337	WASHER, THRUST, 1-1/4" BORE							4	4					4	4			4	4	8	8
3.	0200-1212	BEARING, THRUST, 3/4" BORE	4	4	2	2	2	2	2	2												
	0200-1216	BEARING, THRUST, 1" BORE			2	2					4	4	2	2	2	2						
	0200-1220						2	2					2	2			4	4	2	2		
	0200-1224	BEARING, THRUST, 1-1/2" BORE							2	2					2	2			2	2	4	4
4.	0200-1503		2	2	1	1	1	1	1	1												
	0200-1504	KEY, STEP, 1/4" X 1/4"			1	1	1	1			2	2	2	2	1	1	2	2	1	1		
	0200-1506	KEY, STEP, 3/8" X 3/8"							1	1					1	1			1	1	2	2
5.	0200-1112	GEAR, 25 T, LH, 3/4" BORE	2		1		1		1												$\square$	
	0200-2112	GEAR, 25 T, RH, 3/4" BORE		2		1		1		1											ш	
	0200-1116	GEAR, 25 T, LH, 1" BORE			1						2		1		1						$\square$	
	0200-2116	GEAR, 25 T, RH, 1" BORE				1						2		1		1					oxdot	
	0200-1120	GEAR, 25 T, LH, 1-1/4" BORE					1						1				2		1		ш	
	0200-2120	GEAR, 25 T, RH, 1-1/4" BORE						1						1				2	_	1		Ш
	0200-1124	GEAR, 25 T, LH, 1-1/2" BORE							1						1				1		2	
	0200-2124	GEAR, 25 T, RH, 1-1/2" BORE	_							1						1					igsquare	2
6.	0200-3512	BUSHING, BRONZE, FLANGED, 3/4" BORE	4	4	2	2	2	2	2	2		4									ш	
	0200-1516	BUSHING, BRONZE, FLANGED, 1" BORE			2	2					4	4	2	2	2	2	_				$\square$	Ш
	0200-3520	BUSHING, BRONZE, FLANGED, 1-1/4" BORE					2	2					2	2			4	4	2	2	$\sqcup$	
	0200-3524	BUSHING, BRONZE, FLANGED, 1-1/2" BORE							2	2					2	2			2	2	4	4
/.	0200-1812		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
8.	0100-1601	ZERK GREASE FITTING, 1/4-28																				



## Installation

Full Length Shaft Keyway: Keyway extends to end of shaft.

In this case, it is not necessary to disassemble the Float-A-Shaft®. Without removing the plastic

Shaft Keyway Types

Full Length Section

tubes, align the Float-A-Shaft® with the shaft on which it is to be used and gently press it on. Be sure the key is properly oriented with the keyway. The plastic tubes will fall out as the shaft extends through the unit. The plastic tubes should be saved if removal of the Float-A-Shaft® is required. Be sure the plastic tubes are inserted as the shaft is withdrawn, otherwise the internal parts will slip out of position and disassembly may be required to restore proper alignment.

**Section Keyway:** Keyway does not extend to end of shaft. The Float-A-Shaft® must be disassembled for installation.

**Reassembly:** Reference the numbering diagram on page 1 to complete the following instructions, matching the numbers with corresponding bores.

**Solid Bore Reassembly:** Slide one end of the Gear Case Housing (1), which has the Flanged Bushing (6) already inserted onto the most accessible end of one shaft. Then install a Thrust Washer (2), a Thrust Bearing (3), and another Thrust Washer (2). Next, place the Key (4) in the keyway and slide the Gear (5) onto the shaft over the key. On the opposite side of the gear, place a Thrust Washer (2), a Thrust Bearing (3), and another Thrust Washer (2).

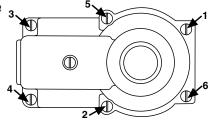
**Split Bore Reassembly:** Slide the following parts onto the shaft, which is positioned at a 90° angle: a Flanged Bushing (6)—Flanged end toward gear, a Thrust Washer (2), a Thrust Bearing (3), and another Thrust Washer (2). Place the Key (4) in the keyway and slide the Gear (5) onto the shaft over the key. On the opposite side of the gear, place a Thrust Washer (2), a Thrust Bearing (3), another Thrust Washer (2), and the other Flanged Bushing (6). Position this assembly

into the Gear Case Housing (1), making sure the teeth of the gears mesh. CAUTION: When trying to get the gears to mesh, rotate the gears to prevent possible damage to the teeth. Next, make sure the Flanged Bushings (6) are

pushed all the way into the casting to allow maximum clearance between the gear and the bushings.

To complete the assembly, install the

assembly, install the other half of the Gear Case Housing (1) with the Flanged Bushing (6)



already inserted, and tighten the Screws (7) in the order shown here. In case of shaft binding, check for possible misalignment of the shafts or for an oversized shaft diameter.

**Lubrication:** All Float-A-Shaft<sup>®</sup> gear boxes have been lubricated at the factory with Mobilith<sup>®</sup> SHC 460. However, units require more lubrication prior to operation. Periodic re-lubrication is also necessary for optimum performance. When re-lubricating, inject Mobilith<sup>®</sup> SHC 460 (maximum operating temperature of 300°F or higher and EP rated) into gear case, as required, via the grease zerk provided.

Mobilith® SHC 460 - 14 oz grease cartridge ● P/N 0100-1605

**Shaft Requirements:** Shafts should be made of power transmission steel grade 4140 or better. A tolerance of

+.000/- .002 is recommended for the shaft diameters. The shaft surfaces should be 32 RMS maximum for stationary applications, and 16 RMS maximum for traversing applications. Shaft straightness should be .0015 TIR per foot.

Mobilith® SHC 460 is a registered trademark of Exxon Mobil Corporation, www.mobil.con Float-A-Shaft® is a registered trademark of Tolomatic, Inc.



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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