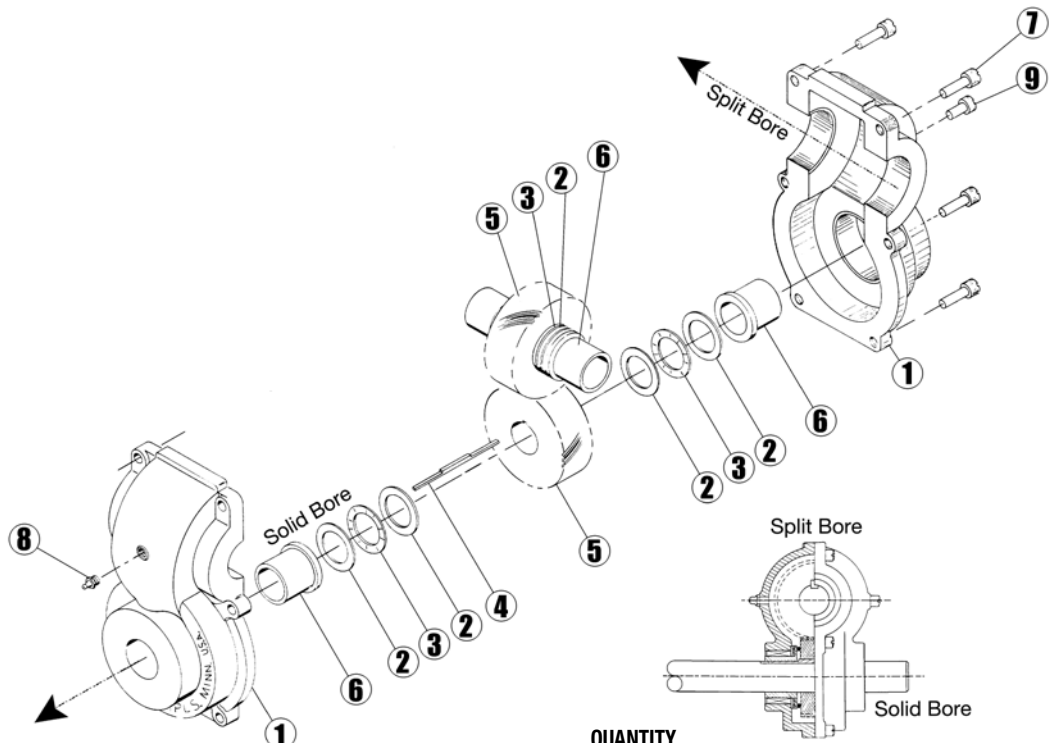


FLOAT-A-SHAFT® Standard Series – 1:1 Ratio

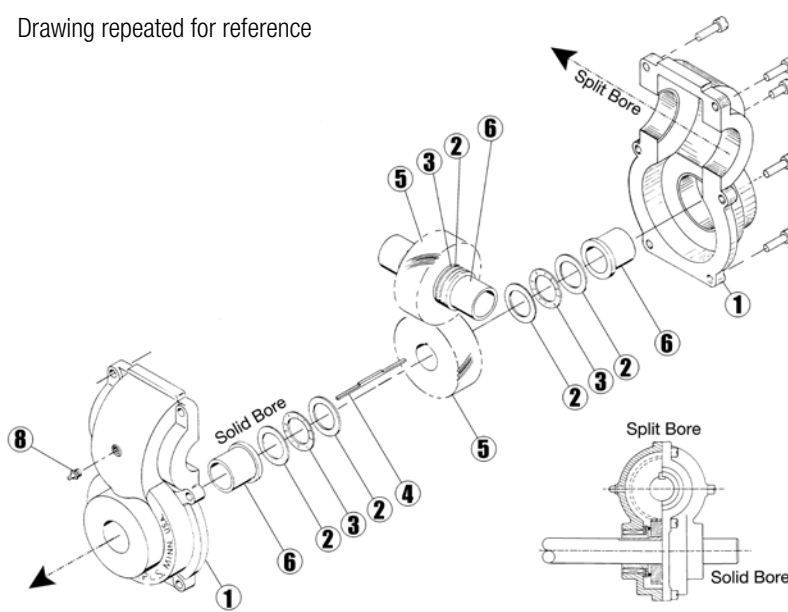
Standard - Low Torque - Journal Bearing

MODEL	R/LH	BORES
0203-0000	LH	3/4" X 3/4"
0204-0000	RH	3/4" X 3/4"
0207-0000	LH	3/4" X 1"
0208-0000	RH	3/4" X 1"
0211-0000	LH	3/4" X 1-1/4"
0212-0000	RH	3/4" X 1-1/4"
0215-0000	LH	3/4" X 1-1/2"
0216-0000	RH	3/4" X 1-1/2"
0219-0000	LH	1" X 1"
0220-0000	RH	1" X 1"
0223-0000	LH	1" X 1-1/4"
0224-0000	RH	1" X 1-1/4"
0227-0000	LH	1" X 1-1/2"
0228-0000	RH	1" X 1-1/2"
0231-0000	LH	1-1/4" X 1-1/4"
0232-0000	RH	1-1/4" X 1-1/4"
0235-0000	LH	1-1/4" X 1-1/2"
0236-0000	RH	1-1/4" X 1-1/2"
0239-0000	LH	1-1/2" X 1-1/2"
0240-0000	RH	1-1/2" X 1-1/2"



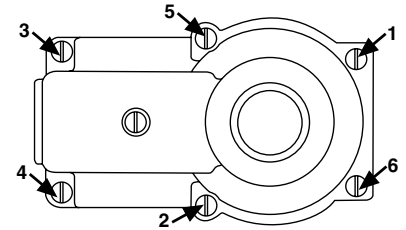
ITEM	PART NO.	DESCRIPTION	QUANTITY																				
			0203-0000	0204-0000	0207-0000	0208-0000	0211-0000	0212-0000	0215-0000	0216-0000	0219-0000	0220-0000	0223-0000	0224-0000	0227-0000	0228-0000	0231-0000	0232-0000	0235-0000	0236-0000	0239-0000	0240-0000	
1	0219-9019	GEAR CASE HOUSING	1	1	1	1			1	1	1	1	1	1	1								
	0227-9027	GEAR CASE HOUSING						1	1	1	1		1	1	1	1							
	0239-9039	GEAR CASE HOUSING															1	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							
	0200-1336	WASHER, THRUST, 1-1/4" BORE					4	4					4	4			8	8	4	4			
	0200-1337	WASHER, THRUST, 1-1/2" 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	BEARING, THRUST, 1-1/4" BORE					2	2					2	2			4	4	2	2			
	0200-1224	BEARING, THRUST, 1-1/2" BORE							2	2			2	2		2	2		2	2	4	4	
4	0200-1503	KEY, STEP, 3/16" X 3/16"	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														
	0200-2112	GEAR, 25 T, RH, 3/4" BORE		2		1		1		1													
	0200-1116	GEAR, 25 T, LH, 1" BORE			1						2		1		1								
	0200-2116	GEAR, 25 T, RH, 1" BORE				1						2		1		1							
	0200-1120	GEAR, 25 T, LH, 1-1/4" BORE					1						1				2		1				
	0200-2120	GEAR, 25 T, RH, 1-1/4" BORE						1						1				2		1			
	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			1		2		
6	0200-3512	BUSHING, BRONZE, FLANGED, 3/4" BORE	4	4	2	2	2	2	2	2													
	0200-1516	BUSHING, BRONZE, FLANGED, 1" BORE			2	2					4	4	2	2	2	2							
	0200-3520	BUSHING, BRONZE, FLANGED, 1-1/4" BORE					2	2					2	2			4	4	2	2			
	0200-3524	BUSHING, BRONZE, FLANGED, 1-1/2" BORE							2	2					2	2			2	2	4	4	
7	0200-1812	SCREW, FILL HD, 1/4-20	6	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	0100-2604	SCREW, FILL HD, 1/4-28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Drawing repeated for reference



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 other half of the Gear Case Housing (1) with the Flanged Bushing (6) already inserted, and tighten the Screws (8) in the order shown here. In case of shaft binding, check for possible



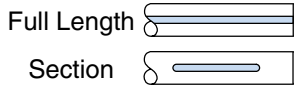
Installation

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 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.

Shaft Keyway Types



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. 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

misalignment of the shafts or for an oversized shaft diameter. Insert Zerk Grease Fitting (7) and Fill Screw (9).

Shaft Requirements: Shafts should be made of power transmission steel grade 4140 or better. A tolerance of $\pm .000/- .002$ 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.

LUBRICATION AND MAINTENANCE SCHEDULE: All Float-A-Shaft® gear boxes have been lubricated at the factory with Mobilith® SHC 460. Standard Float-A-Shaft® gear boxes are initially filled with 2.8 oz. (82.8 ml) of grease to achieve 54% fill on the units. However, units require more lubrication prior to operation. Periodic re-lubrication is also necessary for optimum performance. When re-lubricating, inject Mobilith® 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*

Lubrication and maintenance schedules are dependent on the application. General guidance is provided below and a maintenance plan can be developed based on the use case.

MAINTENANCE	USE CASE		
	Continuous/ Heavy Duty	Intermittent/ Light Duty	Minimal
Inject 1/4 oz. of Mobilith SHC460 into gear housing	1 1/2 Months	3 Months	6 Months
Disassemble and purge unit. Hand lubricate all bearings and gears with 3 oz. of Mobilith SHC460	6 Months	1 Year	1 Year

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



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

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