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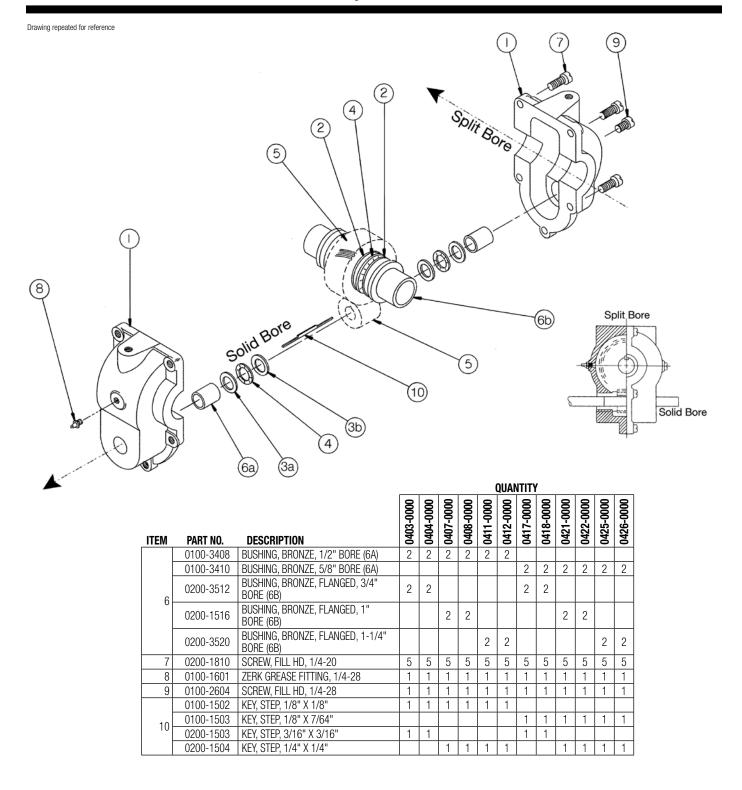
Bore

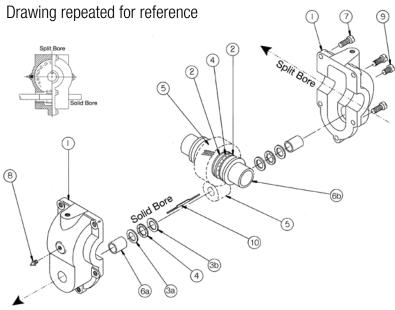
FLOAT-A-SHAFT[®] Standard Series – 2¹/₂:1 Ratio

Standard – Low Torque, Journal Bearing

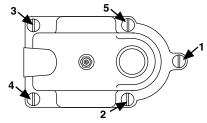
MODEL	R/LH	BORES							ſ)	C	2		(9)			
0403-0000	LH	1/2" X 3/4"							\subseteq	٢.		T		Y			
0404-0000	RH	1/2" X 3/4"															
0407-0000	LH	1/2" X 1"				G				7	OM	D					
0408-0000	RH	1/2" X 1"				(2				k	\checkmark	0					
0411-0000	LH	1/2" X 1-1/4"				(4)		Split E		10.	<	\angle					
0412-0000	RH	1/2" X 1-1/4"						Plit		l	\sim	A	<	M	\mathbf{b}		
0417-0000	LH	5/8" X 3/4"			C.	マートー		~ 6	POr			91					
0418-0000	RH	5/8" X 3/4"			(5)				~6	?Ž	1		~)				
0421-0000	LH	5/8" X 1"			Ľ						$\gamma \gamma$	Th	١V				
0422-0000	RH	5/8" X 1"								6	IК	ζ.,	11	M			
0425-0000	LH	5/8" X 1-1/4"										Y	10	M			
0426-0000	RH	5/8" X 1-1/4"				$\langle \rangle \rangle$					\sum	0)	~			
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									0403-000	0404-0000	0407-0000 0408-0000	0411-0000	0412-0000	0417-0000	0418-0000	ž	0422-0000
			Г	ITEM	PART NO.	DESCRIPTIO	<u>IN</u>		6	6	6 8	9 9	6	6	6 6	š	ő

0426-0000 0425-0000 0421-9021 GEAR CASE HOUSING 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1. 0425-9025 GEAR CASE HOUSING 1 | 1 1 1 0200-1312 WASHER, THRUST, 3/4" BORE 4 4 4 4 0200-1316 WASHER, THRUST, 1" BORE 2. 4 4 4 4 0200-1320 WASHER, THRUST, 1-1/4" BORE 4 4 4 4 0100-1308 WASHER, THRUST, 1/2" BORE (3A) 2 2 2 2 2 2 0100-1310 WASHER, THRUST, 5/8" BORE (3A) 2 2 2 2 2 2 3. 0100-4308 WASHER, THRUST, 1/2" BORE (3B) 2 2 2 2 2 2 0100-4310 WASHER, THRUST, 5/8" BORE (3B) 2 2 2 2 2 2 0100-1208 BEARING, THRUST, 1/2" BORE 2 2 2 2 2 2 0100-1210 BEARING, THRUST, 5/8" BORE 2 2 2 2 2 2 0200-1212 BEARING, THRUST, 3/4" BORE 2 2 2 2 4. 0200-1216 BEARING, THRUST, 1" BORE 2 2 2 2 0200-1220 BEARING, THRUST, 1-1/4" BORE 2 2 2 2 1 1 0100-1108 GEAR, 10 T, LH, 1/2" BORE 1 0100-2108 GEAR, 10 T, RH, 1/2" BORE 1 0100-1110 GEAR, 10 T, LH, 5/8" BORE 1 1 1 0100-2110 GEAR, 10 T, RH, 5/8" BORE 1 1 1 0200-1112 GEAR, 25 T, LH, 3/4" BORE 1 1 5. 0200-2112 | GEAR, 25 T, RH, 3/4" BORE 1 1 0200-1116 GEAR, 25 T, LH, 1" BORE 1 1 0200-2116 GEAR, 25 T, RH, 1" BORE 1 1 0100-2120 GEAR, 25 T, LH, 1-1/4" BORE 1 1 0200-2120 GEAR, 25 T, RH, 1-1/4" BORE 1





Washer (2), and the other Flanged Bushing (6b). 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 (6b) 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 Bushing (6a) 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. 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 +.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.

	USE CASE					
MAINTENANCE	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 <i>3 oz. of Mobilith SHC460</i>	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.

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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.

SECTION KEYWAY: Keyway does not extend to end of shaft. The Float-A-Shaft[®] must be disassembled for installation.

Shaft Keyway Types						
Full Length						
Section	$\sum_{i=1}^{n}$					

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 Bushing (6a) already inserted onto the most accessible end of one shaft. Install a Thrust Washer (3a), a Thrust Bearing (4), and another Thrust Washer (3b)(Note: this is a thicker washer). Next, place the Key (10) 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 (3b), a Thrust Bearing (4), and another Thrust Washer (3a).

SPLIT BORE REASSEMBLY: Slide the following parts onto the shaft, which is positioned at a 90° angle: a Flanged Bushing (6b)—Flanged end toward gear, a Thrust Washer (2), a Thrust Bearing (4), and another Thrust Washer (2). Place the Key (10) 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 (4), another Thrust



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =

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