

SERIES "S" - COUPLING INSTALLATION AND MAINTENANCE INSTRUCTIONS.

INSTALLATION

- 1) Make sure that all the proper coupling parts, keys, etc. are on hand.
- 2) Make sure that the prime mover is disconnected from the power source so that it cannot be started accidentally during installation.
- 3) Remove dirt and burrs from the shafts and coat with a suitable anti-galling lubricant.
- 4) Place one (1) snap ring and one (1) seal on each shaft. Be sure that the groove in the seals face out of the coupling, the mold mark will not be visible after the seals are installed in the coupling.
- 5) Insert keys in shaft keyways. Keys should have a snug fit to the sides of the keyways with slight clearance top to bottom.
- 6) Mount hubs on the shafts.
- 7) Slide the sleeve over the hub mounted on the longest shaft.
- 8) Align the shafts by placing the machines in their approximate positions. (Refer to Table No. 1 on back of sheet for the correct shaft separation.) Best coupling performance is obtained when the alignment is checked with dial indicators.

NOTE: Always rotate the hub on which the indicator is mounted.

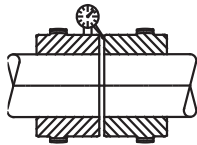


Figure 1.

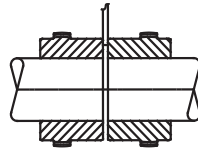


Figure 2.

A. Angular Alignment.

Check by mounting indicator on the body of one hub and placing the pointer on the end face of the other hub. (See Figure 1.) Adjust machines until the best possible alignment is obtained. As an alternate method, insert a feeler gage between the hubs at four points approximately 90° apart and adjust the machines. (See Figure 2.)

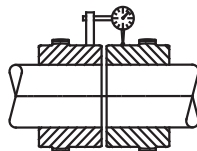


Figure 3.

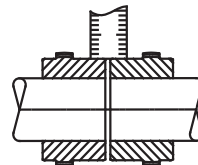


Figure 4.

B. Parallel Alignment.

Mount the indicator on the body of one hub and place the pointer on the body of the other hub. (See Figure 3.) Adjust machines until the indicator reading is the same at four points approximately 90° apart. As an alternate method, place a straight edge across one hub body and adjust the machines until the straight edge rests squarely on the other hub body. (See Figure 4.) This should be done at 90° intervals around the hub.

Securely tighten foundation bolts and recheck the alignment. Adjust the machines again, if necessary.

- 9) Assemble Coupling.
Coat hub teeth and body with coupling grease. Be sure sleeve teeth are free of dirt and burrs. Coat sleeve teeth with grease and lightly coat both seals with grease. Slide sleeve over hubs and center. Press seals in with a blunt tool until they are firmly seated against sleeve shoulders. Snap ring grooves should be completely visible. If the grooves are not visible, remove sleeve and carefully repeat steps 8 and 9. Insert snap rings in the grooves using a winding motion. Recheck to ensure that snap rings are positively seated and setscrews and lube plugs are tight.
- 10) Lubricate.
Remove pipe plugs from the sleeve with the position of the pipe plugs approximately 45° above and below horizontal and pump grease into the hole that is above horizontal until the grease flows from the hole that is below horizontal. Replace the pipe plugs making sure they are tightened firmly.

Note: Do not attempt to pump grease into the coupling by removing only one pipe plug.

CAUTION: INSTALL GUARDS AROUND COUPLING ACCORDING TO LOCAL AND NATIONAL CODES.

MAINTENANCE

- 1) Use only greases from the approved grease listing or equivalent
- 2) Frequency of relubrication varies with application and ambient conditions. Six month relubrication satisfactory for average operation. Other conditions such as slow speed, reversing drives or severe environments may require more frequent inspection and relubrication
- 3) For optimum coupling performance, alignment should be checked periodically. A well-aligned installation may change by the settling of foundations, shifting of machines, etc. Disassemble the coupling sleeve, clean the coupling hubs, inspect the gear teeth and follow Instruction Installation Steps 8, 9 and 10.
- 4) To disassemble coupling, remove one snap ring, slide sleeve off the hubs. The seal will be forced off of one end during this operation. Clean out old lubricant and inspect the seals and gear teeth. Reassemble starting at Installation Instructions Step 9

TABLE No. 1

Series "S"	Size	6	8	10	12	15	20	25	30	35	40	45
Lube Capacity												
Grease Weight (LBS-OZ)		0-.1	0-.3	0-.3	0-.4	0-.9	0-1.6	0-2.8	0-4.5	0-6.5	0-10	1-3
Volume (Pints)		.006	.019	.020	.022	.06	.13	.19	.31	.41	.56	1.03
Parallel Offset Capacity												
		.009	.009	.015	.015	.039	.045	.057	.065	.078	.082	.094
Shaft Separation												
		.09	.09	.09	.09	.13	.13	.19	.19	.25	.25	.31
Lube Plug	Dia.	1/16	1/16	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
	Thread	27 NPTF	27 NPTF	27 NPTF	27 NPTF	27 NPT	27 NPT	27 NPT	27 NPT	18 NPT	18 NPT	18 NPT

APPROVED GREASES

The following greases (or equivalents from other manufacturers) are suitable for most industrial applications with ambient temperatures up to 150°F. For higher temperatures, reciprocating machines, recurrent reverse loading and other unusual applications, consult SCI.

Amoco
Texaco

Coupling Grease
1912 Coupling Grease

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