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Figure 1 - Thomas Series 71-8 Coupling

1. General Information

- 1.1. Thomas Series 71-8 Couplings are designed to provide a mechanical connection between the rotating shafts of mechanical equipment, using flexible disc elements to accommodate inherent misalignment while transmitting the power and torque between the connected shafts.
- 1.2. These instructions are intended to help you to install and maintain your THOMAS Spacer Type Series 71-8 coupling, with 8 bolts per disc. Please read these instructions prior to installing the coupling, and prior to maintenance of the coupling and connected equipment. Keep these instructions near the coupling installation and available for review by maintenance personnel. For special engineered couplings, Rexnord may provide an engineering drawing containing installation instructions that take precedence over this document.
- 1.3. Rexnord Industries, LLC owns the copyright of this material. These Installation and Maintenance instructions may not be reproduced in whole or in part for competitive purposes
- 1.4. Symbol descriptions:

STOP Danger of injury to persons.



Pointing to important items.



Hints concerning explosion protection.

Damages on the machine possible.

2. Safety and Advice Hints



- 2.1. Safety should be a primary concern in all aspects of coupling installation, operation, and maintenance.
- 2.2. Proper lockout-tag out procedures must be followed to safeguard against unintentional starting of the equipment.
- 2.3. Because of the possible danger to person(s) or property from accidents which may result from improper use or installation of these products, it is extremely important to follow the proper selection, installation, maintenance and operational procedures.

PRECAUTION! For this coupling to meet the ATEX requirements, you must precisely follow these installation and maintenance instructions, and the supplement form 0005-08-49-01. This supplement outlines the ATEX requirements. If the operator does not follow these instructions, the coupling will immediately be considered non-conforming to ATEX.

- 2.4. All personnel involved in the installation, service, operation, maintenance, and repair of this coupling and the connected equipment must read, understand, and comply with these Installation and Maintenance instructions.
- 2.5. All rotating power transmission products are potentially dangerous and can cause serious injury. They must be properly guarded in compliance with OSHA, ANSI, ATEX, European machine safety standards and other local standards. It is the responsibility of the user to provide proper guarding.
- 2.6. For ATEX requirements the guard must have a minimum of 12.7 mm (1/2 inch) radial clearance to the coupling outside diameter "A" (see Figure 3 and Table 3) and allow for proper ventilation.
- 2.7. Make sure to disengage the electrical power and any other sources of potential energy before you perform work on the coupling.
- 2.8. Do not make contact with the coupling when it is rotating and/or in operation.
- 2.9. All work on the coupling must be performed when the coupling is at rest with no load.



- 2.10. Do not start or jog the motor, engine, or drive system without securing the coupling components. If the equipment is started with only a hub attached, the hub must be properly mounted and ready for operation, with the key and set screw (if included) fastened. When the full coupling assembly is started, all fasteners and hardware must be completely and properly secured. Do not run the coupling with loose fasteners.
- 2.11. The coupling may only be used in accordance with the technical data provided in the Thomas catalog for the Series 71-8 coupling. Customer modifications and alterations to the coupling are not permissible.

CAUTION: Air driven wrenches for assembly are not permitted to avoid the potential of excessive speed and heat build up that may lead to thread damage during assembly.

2.12. All spare parts for service or replacement must originate from or be approved by Rexnord Industries, LLC.

3. Components and Part Numbers

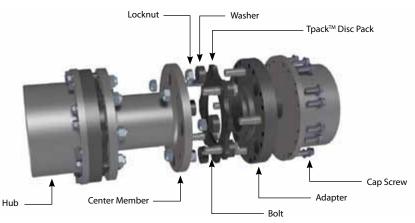
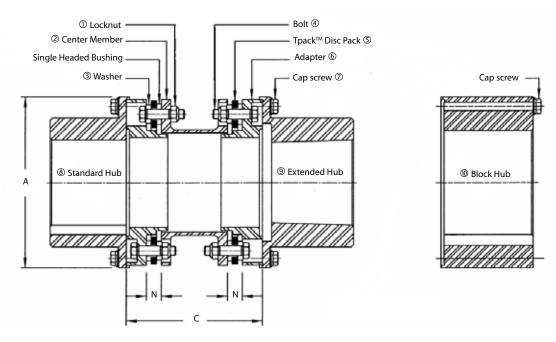
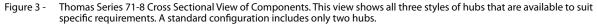


Figure 2 - Thomas Series 71-8 Coupling Components

Thomas Series 71-8 couplings are delivered from the factory with a fully assembled center member consisting of a center spool, two adapters, disc packs, bolts, washers and locknuts that have already been tightened at the factory to the torque specified in Table 6. The center member assembly is ready for field installation and it is recommended that you do not disassemble it unless you are replacing the disc packs. Cap screws will need to be installed and tightened during installation





				Т	able 1 - Pa	rt Number	s and Qu	antity Required					
Size of Series 71-8 Coupling		Hubs		Center Member (2) (1 per Coupling)				Stainless Tpack Disc Pack	Parts Kit – Consists of Bolts, Locknuts, Washers, Cap Screws, and Buffer Rings for One Coupling				
	Standard Extended Blo		Block 10	"C" Dimension		"C" Dimension		2 per Coupling	Parts Kit	Bolts	Locknuts	Washers 3	Cap Screws 7
	Part No.	Part No.	Part No.	Part No.	inch	Part No.	mm	Part No.	Part No.	Quantity	Quantity	Quantity	Quantity
225	588294	588308	588334	587580 587581 587583	5.00 5.50 7.00	605201 605202 605203	140 180 250	587228	587613	16	16	16	32
262	588099	588309	588335	587585 587587	5.50 7.00	605206 605204 605205	140 180 250	587233	587614	16	16	16	32
312	587754	588310	588336	587589 587591	7.00 7.50	605209 605208	180 250	586993	587615	16	16	16	32
350	588209	588311	588337	587593 587595 587597	7.00 7.50 8.00	605211 605212	180 250	587242	587619	16	16	16	32
375	588296	588326	588338	587599	7.50	605213	250	587247	587620	16	16	16	32
425	588297	588327	588339	587601 587604	7.50 8.00	605214	250	587252	587621	16	16	16	32
450	588298	588328	588340					587257	605216	16	16*	16	32
500	588300	588329	588341					587262	588344	16	16*	16	32
550	588301	588330	n/a					587268	588345	16	16*	16	32
600	588305	588331	n/a					587274	588346	16	16*	16	32
700	588306	588332	n/a					586084	588347	16	16*	16	32
750	588307	588333	n/a					586085	588348	16	16*	16	32

* These locknuts are cadmium plated.

4. Hub Mounting



Be sure to disengage the electrical power and any other sources of potential energy before you perform work on the hub and coupling assembly.

- CAUTION: When disc type couplings are installed on "sleeve bearing" motor drives, some precautions are necessary. It is important that the coupling be installed as close to its free state (neutral) axial position as possible and that the motor shaft is on its "magnetic center" (normally defined by a scribed line on the shaft). Disc type couplings, with their flexing element(s) comprised of multiple laminated discs or sheets, will act as a spring in the axial direction (exhibiting non-linear restoring forces) and serve to hold the motor rotor on magnetic center during operation and away from the motor's internal thrust stops. The coupling span ordered for the equipment must consider the motor rotor as being positioned on its magnetic center.
- 4.1. Clean the hub bores and shafts using lint free cloth. Remove any nicks or burrs.
- 4.2. When assembled, the key(s) should have a close side-to-side fit in the keyway in both the hub and the shaft, with a slight clearance over the top of the key.
- 4.3. Remove the cap screws that attach the hubs to the adapters, and remove both hubs.
- CAUTION: When heating hubs is required, an oven is preferred and an open flame is not recommended. If flame heating is considered mandatory, it is important to provide uniform heating to avoid distortion and excessive temperature. A thermal stick applied to the hub surface will help determine the hub temperature.



Touching hot hubs causes burns. Wear safety gloves to avoid contact with hot surfaces.



5. Straight Bore with Clearance/Slip Fit

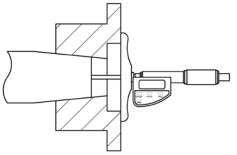
- 5.1. Install the key(s) in the shaft.
- 5.2. Check to be sure that the set screw(s) in the hub does not protrude into the keyway or the bore. Remove or back out the set screw to provide clearance during assembly.
- 5.3. Slide the hub up the shaft to the desired axial position.
- 5.4. Assemble and tighten the set screw(s) using a calibrated torque wrench to the values shown in Table 2

	Table 2 - Set Screw Tightening Torque									
Set Screw Thread Size				Wrench Size		Set Screw Thread Size				Wrench Size
Inch	In-lb	ft-lb	Nm	inch		Inch	In-lb	ft-lb	Nm	inch
1/4-20	66	6	7	1/8		3/8-16	240	20	27	3/16
1/4-28	76	6	9	1/8		3/8-24	276	23	31	3/16
5/16-18	132	11	15	5/32		1/2-13	600	50	68	1/4
5/16-24	144	12	16	5/32		1/2-20	660	55	75	1/4

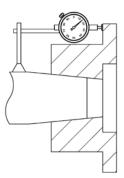
ATTENTION! Never use two set screws with one on top of the other in the same tapped hole.

6. Straight Bore with Interference Fit

- 6.1. Accurately measure the bore and shaft diameters to assure proper fit.
- 6.2. Install the key(s) in the shaft.
- 6.3. Heat the hub in an oven until the bore is sufficiently larger than the shaft.
- 6.4. 350°F (177°C) is usually sufficient for carbon steel hubs. Do not exceed 500°F (260°C).
- 6.5. Higher temperatures may be required for higher interference fit levels where alloy steel hubs may be encountered. A general rule to consider is that for every 160°F increase in temperature, steel will expand 0.001 inch for every inch of shaft diameter (or .029 mm/100°C). When calculating temperatures, also consider additional expansion to provide clearance and allow for a loss of heat and subsequent shrinkage during the handling process.
- 6.6. With the hub expanded, install it quickly on the shaft to the desired axial position. A pre-set axial stop device can be helpful.
- 7. Taper Bore
 - 7.1. Check for acceptable contact pattern between the hub and the shaft.
 - 7.2. Put the hub on the shaft, keeping the keyways (if existing) aligned.
 - 7.3. Lightly tap the face of the hub with a soft mallet. The resultant position will provide a starting point for the hub axial draw up.
 - 7.4. Use a depth micrometer to measure the distance from the shaft end to the hub face, as shown in Figure 4. Record the dimension.



and to hub for a management and male. Figure



Shaft end to hub face measurement example. Figure 5 - Dial indicator placement for axial draw measurement example.

Figure 4 -



- 7.5. Mount a dial indicator to read axial hub advancement, as shown in Figure 5. Alternatively, the indicator can be positioned to contact the end of the hub. Set the indicator to "zero".
- 7.6. Remove the hub and install the key(s) in the shaft.
- 7.7. Heat the hub in an oven until the bore is sufficiently larger than the shaft.
- 7.8. 350°F (177°C) is usually sufficient for carbon steel hubs. Do not exceed 500°F (260°C).
- 7.9. Higher temperatures may be required for higher interference fit levels where alloy steel hubs may be encountered. A general rule to consider is that for every 160°F increase in temperature, steel will expand 0.001 inch for every inch of shaft diameter (or .029 mm/100°C). When calculating temperatures, also consider additional expansion to provide clearance and allow for a loss of heat and subsequent shrinkage during the handling process.
- 7.10. With the hub expanded, install it quickly on the shaft to the "zero" set point. Continue to advance the hub up the taper to the desired axial position, as defined by Rexnord's customer. Use the indicator as a guide only. A pre-set axial stop device can be helpful.
- 7.11. Inspect the assembly to verify that the hub is properly positioned. Consult Rexnord if necessary.
- 7.12. Install any hub axial retention device (if any) in accordance with the equipment manufacturer's specifications.

8. Shaft Alignment

8.1. Move the equipment into place.

C ATTENTION! Soft Foot – The equipment must rest flat on its base. If one or more feet of the machine are shorter, longer, or angled in some way to prevent uniform contact (a condition commonly known as "soft foot") it must now be corrected.

- ATTENTION! To improve the life of the coupling, the shafts must be aligned to minimize deflection of the flexing elements. Shaft alignment is required in the axial, parallel, and angular directions, with each of these values not to exceed the recommended installation limits shown in Table 3. Shaft alignment can be measured using various established methods, including Laser Alignment, Reverse Dial Indicator, and Rim and Face. Refer to Rexnord bulletin 538-214 "Coupling Alignment Fundamentals" for instructions regarding shaft alignment.
- 8.2. Move the connected equipment to achieve acceptable alignment. When properly aligned, the disc packs will be centered and approximately parallel to their mating flange faces and the flexing elements will have little visible waviness when viewed from the side.
- 8.3. Table 3 shows recommended installation limits for Parallel, Angular, and Axial alignment.
- 8.4. The "Parallel Misalignment" value (P) is the offset between the centers of the hubs, as shown in Figure 6.
- 8.5. When Parallel Offset is measured by rotating the hubs in unison with dial indicators as shown in Figure 7, the total indicated reading (TIR) should be divided by (2) to calculate "P".
- 8.6. It should be noted that parallel offset measured on the hub surfaces includes misalignment of the equipment shafting plus any variation (TIR) in the hubs. This may be helpful to consider during problem solving for alignment difficulties.
- 8.7. The "Angular Misalignment" value is the maximum difference between the measurements X and Y taken at opposite ends of the hub flanges, as shown in Figure 8.
- 8.8. These dimensions are suggested for initial installation. Additional capacity is available to compensate for thermal and structural equipment movement.

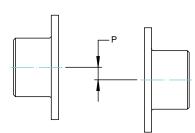
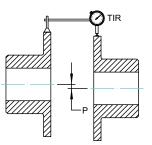


Figure 6 - Parallel Offset Misalignment.



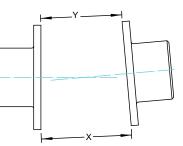


Figure 7 - Parallel Offset (TIR) Measurement.

Figure 8 - Angular Misalignment.



					Recommended Installation Limits ****								
Series 71-8 Coupling	"A" Dimension		"C" Dimension			n Coupling Par leasurement Be in one of tw	etween Hub	Angular Misalignment Between Hubs Maximum (X-Y) ***		Axial Hub Gap Tolerance from "C" Dimension +/-			
Coupling					Alignment	rallel Total Indictor ng (TIR)*	Parallel Offset "P" **						
Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
			5.00	127.0	0.0018	0.04	0.0009	0.02					
			5.50	139.7	0.0019	0.05	0.0010	0.02		0.15	0.018		
225	5.97	151.6	5.51	140.0	0.0019	0.05	0.0010	0.02	0.006			0.46	
			7.00	177.8	0.0025	0.06	0.0012	0.03					
			7.09	180.0	0.0025	0.06	0.0012	0.03					
			9.84	250.0	0.0034	0.09	0.0017	0.04					
			5.50	139.7	0.0019	0.05	0.0010	0.02			0.022	0.55	
262	6.88	174.8	5.51	140.0	0.0019	0.05	0.0010	0.02	0.007	0.18			
			7.00	177.8	0.0025	0.06	0.0012	0.03					
			7.09	180.0	0.0025	0.06	0.0012	0.03					
			9.84	250.0	0.0034	0.09	0.0017	0.04					
			7.00	177.8	0.0025	0.06	0.0012	0.03					
312	8.00	203.2	7.09	180.0	0.0025	0.06	0.0012	0.03	0.008	0.20	0.026	0.65	
			7.50	190.5	0.0026	0.07	0.0013	0.03					
			9.84	250.0	0.0034	0.09	0.0017	0.04					
			7.00	177.8	0.0025	0.06	0.0012	0.03					
350	8.94	227.1	7.09	180.0	0.0025	0.06	0.0012	0.03	0.009	0.23	0.028	0.71	
			7.50	190.5	0.0026	0.07	0.0013	0.03					
		[8.00	203.2	0.0028	0.07	0.0014	0.04					
			9.84	250.0	0.0034	0.09	0.0017	0.04					
375	9.94	252.5	7.50	190.5	0.0026	0.07	0.0013	0.03	0.010	0.25	0.031	0.79	
			9.84	250.0	0.0034	0.09	0.0017	0.04					
			7.50	190.5	0.0026	0.07	0.0013	0.03					
425	10.75	273.1	8.00	203.2	0.0028	0.07	0.0014	0.04	0.011	0.28	0.034	0.85	
			9.84	250.0	0.0034	0.09	0.0017	0.04					
450	11.56	293.6	9.84	250.0	0.0034	0.09	0.0017	0.04	0.012	0.30	0.036	0.91	
500	13.12	333.2							0.013	0.33	0.041	1.04	
550	14.69	373.1							0.015	0.38	0.046	1.17	
600	16.38	416.1							0.016	0.41	0.051	1.30	
700	18.56	471.4							0.019	0.48	0.057	1.45	
750	20.12	511.0							0.020	0.51	0.062	1.57	

* Parallel misalignment measured by rotating the hubs with a dial indicator on the outside hub diameter will result in a maximum Total-Indicated-Reading of 0.00035 inch per inch of "C" dimension (or 0.00035 mm per mm of "C" dimension). For non-standard "C" dimensions, multiply "C" x 0.00035 to calculate the TIR.

** Parallel offest "P" is equivalent to one-half of the TIR measurement using dial indicators.

*** Subtract Measurement Y from Measurement X to obtain Angular Misalignment dimension.

**** During installation and/or operation, do not exceed the maximum misalignment capacity of 1/3°per disc pack.

Refer to Rexnord Bulletin 538-214 "Coupling Alignment Fundamentals" for more details regarding alignment methods and procedures.



9. Final Assembly

- ATTENTION! Series 71-8 couplings are delivered from the factory with a fully assembled center member subassembly with locknuts tightened at the factory to the torque specified in Table 6. The center member subassembly is ready for field installation, and we recommend that you do not disassemble it (unless you are replacing the disc packs).
- 9.1. Verify that the hubs have been mounted to provide the correct "C" dimension shown in Figure 9 and defined in Table 1. The "C" dimension is the distance measured between the faces of the two hub flanges. Note that the "C" dimension does not include the narrow extended length of material that provides the pilot on the outside diameter of the hub.

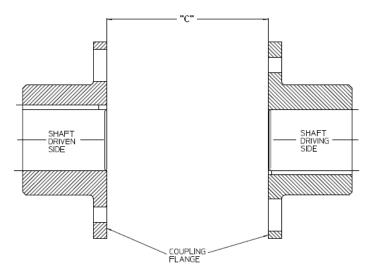


Figure 9 - Mounting Hubs on Shafts

- 9.2. Due to the hub-to-adapter piloting feature, the center member subassembly must be compressed to allow it to be slipped between the two end hubs.
- 9.3. Use the compression cap screws (provided) as defined in Table 5 to compress the center member assembly by inserting them through the holes in the flanges of the center spool and threading them into the adapter tapped holes as shown in Figure 10.
- CAUTION! Tighten the cap screws equally to compress both ends only enough to allow the center member subassembly to fit between the hubs. (Do not tighten more than necessary to provide clearance for assembly.)

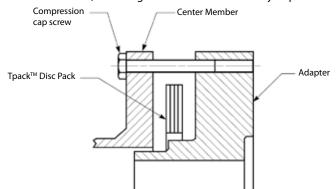


Figure 10 - Compression positioning.

- 9.4. Make sure that the adapter pilots and the hub flange faces are free from foreign material, nicks and burrs to allow for proper pilot seating.
- 9.5. Place the compressed center member between the coupling hubs, lining up the tapped holes in the adapter with the cap screw clearance holes in the hub. If the coupling was balanced, also align any match marks.
- 9.6. Remove the center member compression cap screws, allowing the adapter pilots to make contact with the outside diameter of the hub flange.
- ATTENTION! All bolts and cap screw threads must be lubricated prior to assembly. A clean motor oil is recommended. Do not use lubricants containing molybdenum disulfide or greases.



9.7. Lubricate the cap screw threads and insert the cap screws through the hub flange clearance holes and into the mating threaded holes in the adapter. Tighten each cap screw to the torque as listed in Table 6.

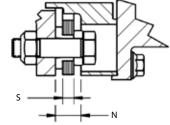


Figure 11 - Alignment confirmation values.

- 9.8. As an assembly and alignment check, measure the distance "N" between the flanges of the hub and the center spool at each end, as shown in Figure 9 and Figure 11. Dimension "N" should be measured at four (4) positions equally spaced around the circumference of the disc pack gap (at top, bottom, and side positions) at each end.
 - Calculate the "N_{average}" value at each end by adding the measurements and dividing by 4.
 - N_{average} = (N1 +N2 +N3 +N4)/4
 - N_{average} should be between the minimum and maximum values shown in Table 4.
 - If the N_{average} value is outside of these specifications, use a more precise measurement method to verify an acceptable gap, by first
 measuring the thickness of the disc pack "S" as shown in Figure 11. The discs should be tightly compressed during the measurement.
 Calculate "G" by subtracting "S" from N_{average}.
 - G = N_{average} S
 - G should be between the minimum and maximum values shown in Table 4 for allowable G values.
 - Calculate the Angular Misalignment at each end by subtracting the smallest (minimum) N value from the largest (maximum) N value. The Angular Misalignment should be less than the maximum value shown in Table 4.
 - Angular Misalignment = (N_{maximum} N_{minimum})
- 9.9. If the "N average," and "G" values are outside of these specifications, or the angular misalignment exceeds the maximum capacity, it is suggested that the alignment is rechecked and improved. Dimensional measurements should also be made to verify the set up is accurate.

					Tab	le 4 - Alig	nment Check Valu	es				
			Dimension "N"				Maximum Allov	wable Coupling	Precision Alignment Check			
Series 71-8 Coupling	"A" Dimension		Allowable Range for "N average" *				Angular Misalignment at Each End (N maximum) - (N minimum) **		Allowable Range for G = (N average) - S***			
Size		Min.	Max.	Min.	Max.	Maximum	Min.	Max	Min.	Max.		
	inch	mm	inch	inch	mm	mm	inch	inch mm		inch	mm	mm
225	5.97	151.6	0.514	0.532	13.06	13.51	0.035	0.035 0.88		0.353	8.51	8.97
262	6.88	174.8	0.589	0.610	14.96	15.49	0.040	1.02	0.365	0.387	9.27	9.83
312	8.00	203.2	0.617	0.642	15.67	16.31	0.047	1.18	0.363	0.389	9.22	9.88
350	8.94	227.1	0.710	0.738	18.03	18.75	0.052	1.32	0.424	0.452	10.77	11.48
375	9.94	252.5	0.763	0.794	19.38	20.17	0.058	1.47	0.423	0.454	10.74	11.53
425	10.75	273.1	0.794	0.827	20.17	21.01	0.063	1.59	0.421	0.455	10.69	11.56
450	11.56	293.6	0.884	0.920	22.45	23.37	0.067	1.71	0.482	0.518	12.24	13.16
500	13.12	333.2	0.945	0.986	24.00	25.04	0.076	1.94	0.480	0.521	12.19	13.23
550	14.69	373.1	1.014	1.060	25.76	26.92	0.085	2.17	0.477	0.523	12.12	13.28
600	16.38	416.1	1.065	1.116	27.05	28.35	0.095	2.42	0.475	0.526	12.07	13.36
700	18.56	471.4	1.171	1.228	29.74	31.19	0.108	2.74	0.471	0.529	11.96	13.44
750	20.12	511.0	1.222	1.284	31.04	32.61	0.117	2.97	0.469	0.531	11.91	13.49

* "N average" is the average of four dimensions measuring the gap at four positions equally spaced around the circumference of the disc pack (at top, bottom, and side positions, or otherwise stated as 0°, 90°, 180°, and 270°).

** At each end, subtract the minimum N measurement from the maximum N measurement. The calculated value allows the maximum capaity of 1/3° angular misalignment at each end.

*** G = (N average) - S, where S = measured thickness of stack of disc pack laminates (when tightly compressed).

Refer to Rexnord Bulletin 538-214" Coupling Alignment Fundamentals" for more details and procedures regarding alignment methods and procedures.



9.10. For further help with the installation or alignment consult Rexnord.

Та	Table 5 - Compression Cap Screws								
SR71-8	"Compression Cap Screws Socket Head or Hex Head"	Quantity							
Coupling Size	Size	Quantity							
	Inch								
225	#10-24 x 1.25 Long	8							
262	#10-24 x 1.25 Long	8							
312	1/4-20 x 1.50 Long	8							
350	1/4-20 x 1.50 Long	8							
375	5/16-18 x 2.00 Long	8							
425	5/16-18 x 2.00 Long	8							
450	5/16-18 x 2.00 Long	8							
500	3/8-16 x 2.50 Long	8							
550	3/8-16 x 2.50 Long	8							
600	7/16-14 x 2.75 Long	8							
700	1/2-13 x 3.25 Long	8							
750	1/2-13 x 3.25 Long	8							

Table 6 - Cap Screw Tightening Torque										
SR71-8	"A" Dim	oncion	Cap Screw							
Coupling	A DIN	lension	Thread Size	Tore	que	Wrench Size				
Size	Inch	mm	Inch	Ft-Lb*	Nm	Inch				
225	5.97	151.6	1/4-28 UNF	10	14	3/8				
262	6.88	174.8	5/16-24 UNF	20	27	1/2				
312	8.00	203.2	5/16-24 UNF	20	27	1/2				
350	8.94	227.1	3/8-24 UNF	37	50	9/16				
375	9.94	252.5	3/8-24 UNF	37	50	1/2				
425	10.75	273.1	7/16-20 UNF	58	79	5/8				
450	11.56	293.6	7/16-20 UNF	58	79	5/8				
500	13.12	333.2	1/2-20 UNF	90	122	3/4				
550	14.69	373.1	5/8-18 UNF	180	244	15/16				
600	16.38	416.1	5/8-18 UNF	180	244	15/16				
700	18.56	471.4	3/4-16 UNF	315	427	1-1/8				
750	20.12	511.0	3/4-16 UNF	315	427	1-1/8				

Note: 1. These torque values are for Cap screws with oil lubricated threads

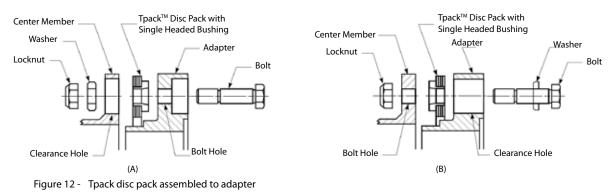
10. Disc Pack Replacement

- 10.1. If it becomes necessary to replace the disc packs, it can be done as follows.
- ATTENTION! The Series 71-8 center member subassemblies have their locknuts factory tightened. On center member subassemblies where the spacer length is short and wrench access is limited, special wrenches are used to tighten the locknuts. Consult Rexnord for assistance in obtaining these special wrenches.
- 10.2. Remove the center member subassembly by removing all cap screws, compressing the center member subassembly (using the cap screws as defined in the final assembly procedure) and dropping it out from between the hubs. There are jacking screw tapped holes in each end hub to disengage the pilots between the hubs and adapters, using the compression cap screws (provided) as defined in Table 5.
- 10.3. Remove all locknuts, bolts, washers, and disc packs. Special wrenches may be required. Clean the two adapters and the center member, removing any nicks and burrs. See Figure 12. Replace the buffer ring as required. Install the new disc packs to the adapters first.
- CP ATTENTION! Match marks (if applied at balance) must be in-line to maintain balance integrity.

STOP DANGER!

When handling the coupling, components may sometimes slip and fall, to prevent loss of fingers or injury do not insert fingers into any fastener holes.

10.4. Install the disc packs to the adapter first so that the bushing heads in the disc pack line up with the bolt holes in the adapter flanges as shown in Figure 12A. Insert the bolts through the adapter bolt holes and disc pack bushings.



- 10.5. The last bolt may be tight and require light tapping, with a small mallet, on the head of the bolt to work it through the disc pack bushing.
- 10.6. Install a washer onto each bolt. The radius of the washer must always be against the disc pack (note: some models have washers that have a radius on both sides).
- 10.7. Make sure all of the parts pilot on the body ground area on the bolt.



10.8. Apply a clean motor oil to the bolt threads and install a locknut on each bolt, but do not tighten the locknuts, yet.

C P ATTENTION! All bolt threads must be lubricated prior to assembly. A clean motor oil is recommended. Do not use lubricants containing molybenum disulfide or grease.

- 10.9. Place a washer on each remaining bolt as shown in Figure 12B. The radius side of the washer must always be against the disc pack (note: some models have washers that have a radius on both sides).
- 10.10. Insert the bolts through the adapter clearance holes and disc pack bushings, and through the bolt holes in the center spool.
- 10.11. Slightly tighten all locknuts using an alternating progressive pattern making sure the pack is not distorted and all the bolts are fully seated. Now tighten each locknut to the appropriate torque value shown in Table 7, using an incremental torque in a progressive alternating pattern.
- 10.12. Proceed to install the center member subassembly as outlined in Section 9.0, Final Assembly.
- 10.13. When possible, it is recommended that all locknuts have their tightening torque checked after several hours of initial operation.
- 10.14. For spare replacement parts, see Table 1.

		Table 7 -	Locknut Tightening	Torques					
SR71-8	" A " Dim	ension	Locknut						
Coupling	A DIII	lension	Thread Size	Tor	que	Wrench Size			
Size	Inch	mm	Inch	Ft-Lb**	Nm	Inch			
225	5.97	151.6	5/16-24 UNF	25	34	1/2			
262	6.88	174.8	3/8-24 UNF	34	46	9/16			
312	8.00	203.2	7/16-20 UNF	60	81	5/8			
350	8.94	227.1	1/2-20 UNF	95	129	3/4			
375	9.94	252.5	9/16-18 UNF	130	176	7/8			
425	10.75	273.1	5/8-18 UNF	175	237	15/16			
450	11.56	293.6	3/4-16 UNF	190*	258*	1-1/4			
500	13.12	333.2	3/4-16 UNF	190*	258*	1-1/4			
550	14.69	373.1	7/8-14 UNF	255*	346*	1-7/16			
600	16.38	416.1	1-14 UNS	335*	454*	1-5/8			
700	18.56	471.4	1-1/8-12 UNF	425*	576*	1-13/16			
750	20.12	511.0	1-1/4-12 UNF	560*	759*	1-7/16			

* These locknuts are cadmium plated (for steel). Do not use any lubricant other than clean motor oil.

** Torque values shown in parenthesis are defined in (in-lb). Otherwise use (ft-lb).

1. These torque values are approximate for steel bolts with threads lubricated with clean motor oil. The locknuts are prevailing torque type and some resistance will be felt. If thread galling is suspected, immediately stop and contact Rexnord.

2. Bolts should be held stationary while the locknuts are tightened to the values shown. Do not tighten the fastener by rotating the bolt. 3. The use of Stainless Steel bolts and locknuts requires the tightening torque to be reduced to 60% of the values shown. Stainless steel bolt and locknut threads must also be liberally coated with molybdenum disulfide grease (do not use motor oil).

4. Air driven wrenches for fastener assembly are not permitted (heat build up may lead to thread damage during assembly).