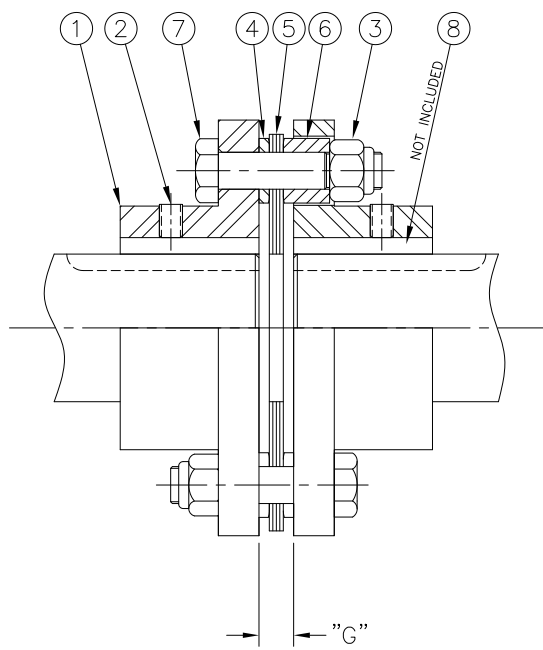


# Form-Flex Coupling Type AR All Sizes and All Classes

Installation & Maintenance Instructions

P-5019-TBW  
Form 1128A





**(Figure 1)**

**Parts List**

- 1. Hub (2)
- 2. Set Screw (4)
- 3. Nut (4)
- 4. Thin Washer (4)
- 5. Flex Element (1)
- 6. Thick Washer (4)
- 7. Bolt (4)
- 8. Key (Not Included)



**(Figure 2)**

Proper care in installing and aligning will permit couplings to operate to full capacity, compensate for angular misalignment, and provide very good service life.

Shafts may become misaligned as a result of many natural and unavoidable causes. Heat, vibration, bearing wear, settling of foundations, etc, all tend to alter initial alignment. To ensure longer life, re-check alignment after a short period of actual running.

In general, coupling life is increased when shafts are initially aligned carefully. If this is not done and a coupling is heavily stressed by torque or other forces, it will have little reserve left with which to accommodate misalignment stresses; and it might not provide the length of service intended. The closer the alignment T.I.R. is to zero, the better the service life of the coupling.

**ASSEMBLY**

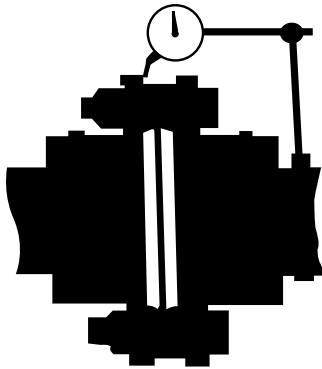
1. Assemble the coupling using Figures 1 and 2 as a guide. Note: The curved faces on the washers must be placed adjacent to the flex element pack. See Figure 2.

THE THICK ELEMENT WASHERS NEST INTO THE LARGE CLEARANCE HOLES IN THE HUBS.

2. Torque tighten the locknuts to the values as shown in Table 2. After a short period of actual running, retorque all nuts to the proper value.

## ALIGNMENT

1. After preliminary alignment and complete assembly, secure a dial indicator to one hub as shown in Figure 3 and indicate the face of the hub as shown. The method of mounting the indicator is optional
2. Rotate the coupling to find the minimum indicator reading. Set the indicator for zero reading.
3. Again rotate the coupling 360° to check the misalignment.
4. Adjust the connected equipment until the indicator reading is within the maximum T.I.R. shown in Table 3. Note: The closer to zero misalignment the better the service that can be expected.



(Figure 3)

## FLEX-PAC™ KITS

When required, flex packs can be replaced and kits are available. The kits consist of flex pack, washers, nuts and bolts. To order Flex-Pac Kits, it is necessary to furnish the model number of the Form-Flex coupling, which can be found on the face of the hub flange. Example: Please send one (1) Flex-Pac Kit for Type AJ25-0101 Form-Flex coupling. Orders must be placed with your local distributor or with the Original Equipment Manufacturer.

Rotating equipment is potentially dangerous and should be properly guarded. The user should check for all applicable safety codes in his area and provide a suitable guard.

**Table 1 – Flange to Flange, Dimension “G” - Inches**

Size	05	10	15	20	25	30	35	40	45	50	55
G	.24	.27	.32	.34	.45	.47	.55	.60	.85	.94	1.07
±	.010	.010	.010	.010	.015	.015	.015	.015	.020	.020	.020

**Table 2 – Nut Tightening Torque (Lightly oiled threads on stainless fasteners)**

Size	05	10	15	20	25	30	35	40	45	50	55
FT-LB	8	8	17	17	40	58	58	115	115	160	400

**Table 3 – Total Indicator Reading, Maximum; Inches**

Size	05	10	15	20	25	30	35	40	45	50	55
T.I.R.*	.020	.024	.028	.032	.038	.044	.052	.060	.066	.076	.086

\* Equivalent to .50° per flex element. Lower T.I.R. readings will provide better alignment of shafts and longer service life.

**Important:** To ensure unlimited life, re-check alignment after a short period (one to two hours) of actual running. At this time, also re-torque bolts and nuts to values in Table 2.

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