

# Instruction Manual for DODGE Moment Couplings

## Sizes DM100-DM920

These instructions must be read thoroughly before installation or operation.

**WARNING:** To ensure the drive is not unexpectedly started, turn off and lock-out or tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

### STEP 1: PRE-ASSEMBLY INSPECTION

All parts should be examined for any damage during the shipping and handling process. Measurement should be taken to ensure parts meet application requirements, such as hub and shaft fits, shaft separation, etc. All parts must be clean and free of any foreign material before attempting installation.

### STEP 2: INSTALLATION OF KEYS

Install keys in respective shafts. Keys should fit key seat with a tight fit on the sides and a slight clearance over the key. Ensure key is free of burrs and break off edges

### STEP 3: MOUNTING HUBS

**NOTE:** PPE (Personal Protective Equipment) must be used due to the high temperature of the hub.

1. DODGE moment couplings are designed for interference fits. DODGE recommendations for shaft size is as follows: nominal shaft  $+0.000'' / -0.001''$ . It is important to achieve the proper fit as this coupling not only transmits the torque but must provide support for the drive system.
2. Heat the coupling hub: 350°F (177°C) to 450°F (232°C). Use of an oven, torch or induction heater is acceptable. When using an open flame, apply even heat and avoid over heating. It is recommended that temperature sensitive crayons are used to ensure the proper temperature is reached.
3. Install each hub bore so that it is flush with the end of the shaft. Allow each hub time to cool before bolting them together.

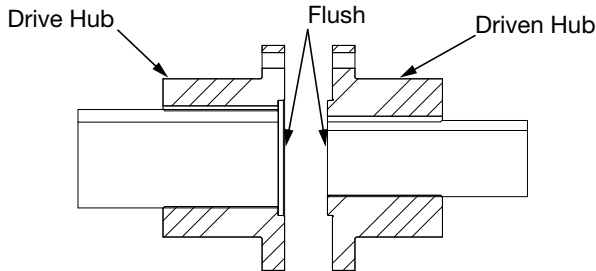


Figure 1 - Hub Installation

**WARNING:** Because of the possible danger to persons(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed. Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

### STEP 4: COUPLING ASSEMBLY

1. DODGE Moment couplings are not designed to accommodate any misalignment. They are intended to be used for shaft-mounted gear drives where the assembly is free to move with the eccentricities in the driven equipment.
2. Assemble couplings as shown in Figure 2. Rotate the shafts so that the holes on each hub line up. Apply medium strength thread locker on each bolt prior to installation. Insert the included bolts into each hole and hand tighten.

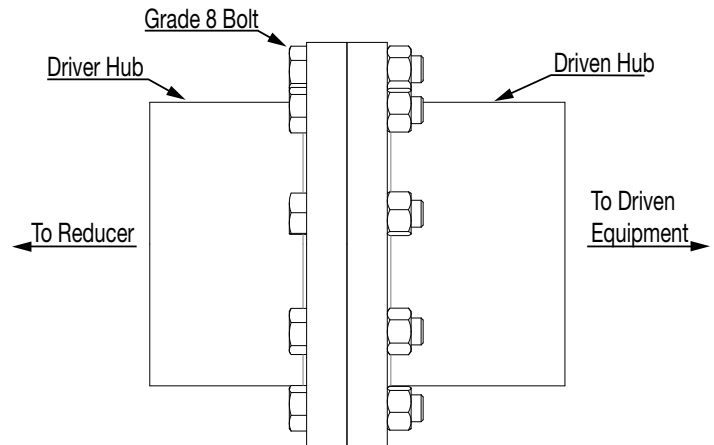


Figure 2 - Coupling Assembly

3. Tighten bolts gradually and evenly in a star pattern until the recommended tightening torque shown in Table 1 is reached. Recheck each bolt to ensure that they have all maintained their torque values. If one or more is loose, torque all bolts again, and repeat the checking process.

Table 1 - Tightening Torque				
Coupling Size	Bolt Sizes	Number of Bolts	Tightening Torque	
			N-m	Ft-Lbs
DM100	3/4-10 UNC x 3-1/4	9	515	280
DM150	3/4-10 UNC x 3-1/4	12	515	280
DM210	7/8-9 UNC x 4	10	813	450
DM285	7/8-9 UNC x 4	12	813	450
DM390	1-8 UNC x 4	12	1234	680
DM525	1-8 UNC x 4	14	1234	680
DM700	1-1/8-7 UNC x 4.75	14	1749	970
DM920	1-1/8-7 UNC x 4.75	16	1749	970



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