

TAPER-LOCK and QD Sheaves

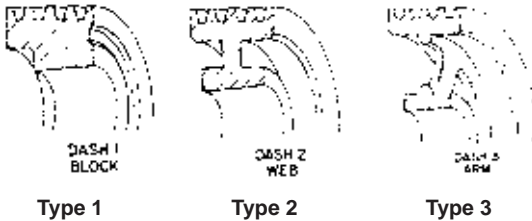


TAPER-LOCK Sheaves

QD Sheaves

Sheaves are manufactured in DODGE plants under strict quality control assurances. Precision machining meets or exceeds joint RMA/MPTA industry standards for smooth operation plus extended belt life. DODGE manufactures all sheaves in plants certified to ISO 9002 Quality Standards.

Sheave Construction



Type 1

Type 2

Type 3

DODGE stock sheaves are manufactured from high quality gray iron. They are given a corrosion-resistant finish before packaging and shipping. Sheave construction follows the general format illustrated above: smaller sheaves are of the block construction, intermediate sizes of the web type, and large sheaves of the arm-type construction.

Sheave Balance

Balance of stock sheaves is suitable for most applications up to a rim speed of 6500 FPM. Dynamic (two-plane) balance is available at extra charge for applications that are more sensitive to vibration. Dynamic balance is recommended for operation above 6500 FPM.

V-Drive Advantages

- Isolates shock loads and vibration.
- Misalignment capability.
- Drive ratios of 6:1 or more possible.
- Stock drive selections up to:
 - 1100 design HP at 1180 RPM
 - 800 design HP at 1770 RPM
- Low maintenance.
- No lubrication required.
- Quiet operation: Motors, etc. are normally at a higher db level than V-Drives.
- Efficiency of 95% is typical.

Computer Selection

For fast, accurate evaluation of viable V-Drive alternatives, use the DODGE VIA-VISA software program for your PC. Just type the required information on the user-friendly input screen and let the computer do the rest. All the significant data on the drive combinations is presented: Cost, RPM, shaft loading, installation tension, face width and diameter, etc. This is shown in a format that allows you to select the best drive for the application. See page PT7-123 for complete information on VIA-VISA.

WARNING

Stock sheaves are manufactured from gray iron, which is suitable for operation up to 6500 feet per minute rim speed (e.g. 14, max. dia. on a 1750 RPM motor). Operation above this rim speed may cause sheave failure resulting in personnel and/or equipment damage.

Refer to the Made-To-Order sheave section for constructions that are suitable for operation at higher rim speeds.

ARAMIDE CORD BELTS WARNING:

Because of the high horsepower rating of Aramide (Kevlar) cord belts, stock sheaves can not be used. Contact DODGE for made to order high capacity sheaves.