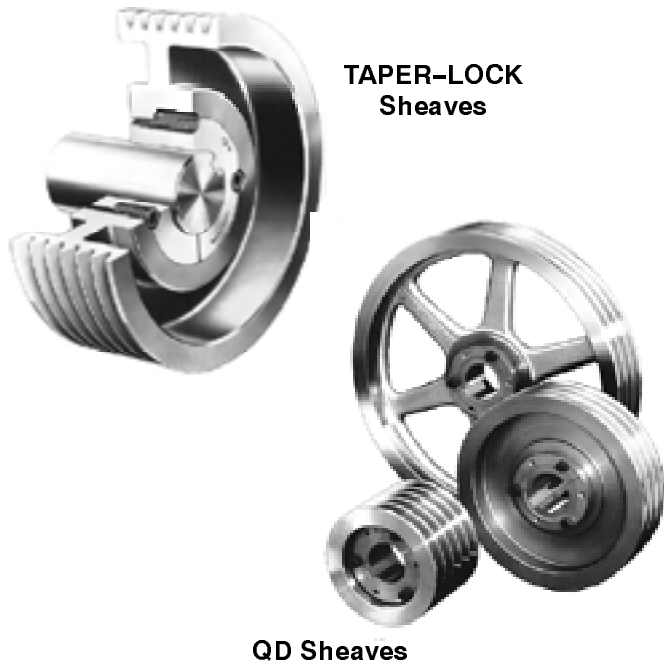


FEATURES/BENEFITS

TAPER-LOCK and QD Sheaves

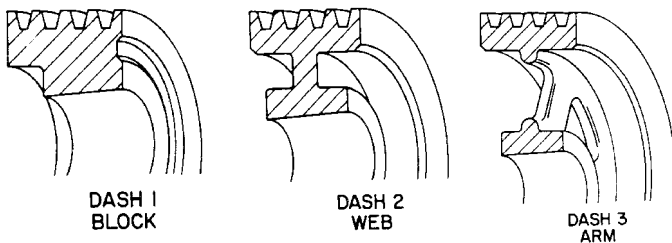


TAPER-LOCK Sheaves

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



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.
- Minor 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
- Long life: 3-5 years is typical.
- 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.



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