



Belvac Production Machinery Technical Bulletin

Information for Customers Operating & Maintaining Belvac Machines

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595 and 795 Fixed Base Conversions GEARBOX REPLACEMENT

Replacing No Longer Available Reducers:

Belvac has continually supplied only the highest quality components to ensure the effectiveness and reliability of our machinery. Over the years, supply issues prompted replacement.

Dodge Reducers:

Belvac has partnered with **Dodge**, a division of **Rockwell Automation**. Dodge has more than a century of industrial automation expertise and offers diverse solutions for customers in the aggregate, mining, food, forest products, metal, HVAC, environmental, automotive, petrochemical, and unit handling industries. The Dodge Quantis gear reducer product line complements Belvac's 595 and 795 Fixed Base Machinery power and assembly requirements.

Belvac has created conversion kits to effectively replace earlier model reducers after their useful service. The basic kit generally consists of:

- 1) Replacement Gearbox
- 2) Drive Shaft
- 3) Motor Relocation Hardware
- 4) Drive Guard
- 5) Replacement Reducer Input Shaft Bushings (SK, SF and E) (item #2016)
- 6) Assembly Drawings and Bill of Materials (BOM)

NOTE: 1-stage through 3-stage 595 and 1-stage 795 kits do not require a new Drive Shaft.

595 FIXED BASE CONVERSION KITS			
595 Fixed Base Machine Size	Motor HP (Reference)	Kit Number (Includes Dodge Reducer)	Dodge Reducer Part Number and Ratio (Reference Only)
1-Stage thru 3-Stage	5-15	2706342	C71026 (11.64:1)
4-Stage thru 8-Stage	15-30	2706343	C71022 (12.56:1)
9-Stage	40	2706344	C71022 (12.56:1)

795 FIXED BASE CONVERSION KITS			
795 Fixed Base Machine Size	Motor HP (Reference)	Kit Number (Includes Dodge Reducer)	Dodge Reducer Part Number and Ratio (Reference Only)
1-Stage	10	2706372	C71026 (11.64:1)
4-Stage	40	2706385	C71027 (9.16:1)
7-Stage – Full Shaft	75	2706390	C71028 (9.77:1)
7-Stage Gear Coupled Shaft	75	2706393	C71028 (9.77:1)

Due to slight changes in the gear ratio, minor modifications to variable frequency drives will be necessary to maintain the original speed. *Refer to the chart for new reducer ratios.*

It is estimated a gearbox conversion will take approximately four to five man hours: Depending on the condition of the existing reducer, it may take more time to disassemble. A lifting device and torque wrench are required.

NOTE: In some instances it may be necessary to change the orientation of the motor's junction box due to its proximity to the new Dodge reducer.

The new Dodge Quantis reducer comes standard on all new Belvac Fixed Base Machinery shipments, as well as rebuilt Belvac Fixed Base Machinery (as required) effective January 01, 2006.

Contact Belvac Sales or Service representatives for ordering information.

All Technical Bulletins may be viewed on our web site, www.belvac.com.