SECTION I

GENERAL

GENERAL DESCRIPTION

The BELOIT Posiflow Cleaner is a low pressure drop, two-exit hydrocyclone (see Fig.-1A), highly efficient, fine cleaner which represents a major advancement in the removal of heavyweight debris of paper pulps. Additionally, the cleaner is capable of operating at far lower reject rates than conventional cleaners. This combination of features makes the Posiflow the ideal choice for pulp cleaning in the pulp mill, secondary fiber plant, or ahead of the paper machine.

The Posiflow is available as a single unit made of an engineering plastic that combines high wear resistance with resistance to chemical attack over a broad temperature range.

The Posiflow rejects tips have an optional ceramic insert for applications with moderately high amounts of abrasive contaminants. (Refer to the spare parts list at end of section.)

For applications with very high amounts of abrasive contaminants, there is a ceramic conical section available. These would be recommended where large amounts of sand, metal, etc. are concentrated in the system's secondary stage. (Refer to spare parts list at end of section.)

Employing similar technology to the Beloit Uniflow Cleaner, now the industry standard for lightweight contaminant separation, the Posiflow provides excellent separation properties with only one or, at most, two stages of cleaning. This equates to lower installed and operating costs for our customers. Furthermore, the control benefits of a single-stage cleaning system yield the highest pulp quality on a day-in, day-out basis.

The BELOIT Posiflow Cleaner is a development which came from a small heavyweight removal project in 1983. From 1983 to 1985, BELOIT optimized the design of the unique cleaner prior to its introduction to the North American Pulp and Paper Industry. Each unit represents a product of advanced design, careful engineering, quality materials, and the finest in workmanship.

Information in the following pages is directed towards a better understanding of the Posiflow Cyclone, its installation, its operation, and its maintenance so that the potential of this cleaner may be fully realized.

Laboratory and mill studies show that the Posiflow gives excellent contaminant removal, very high yield, and exceptionally low power consumption.