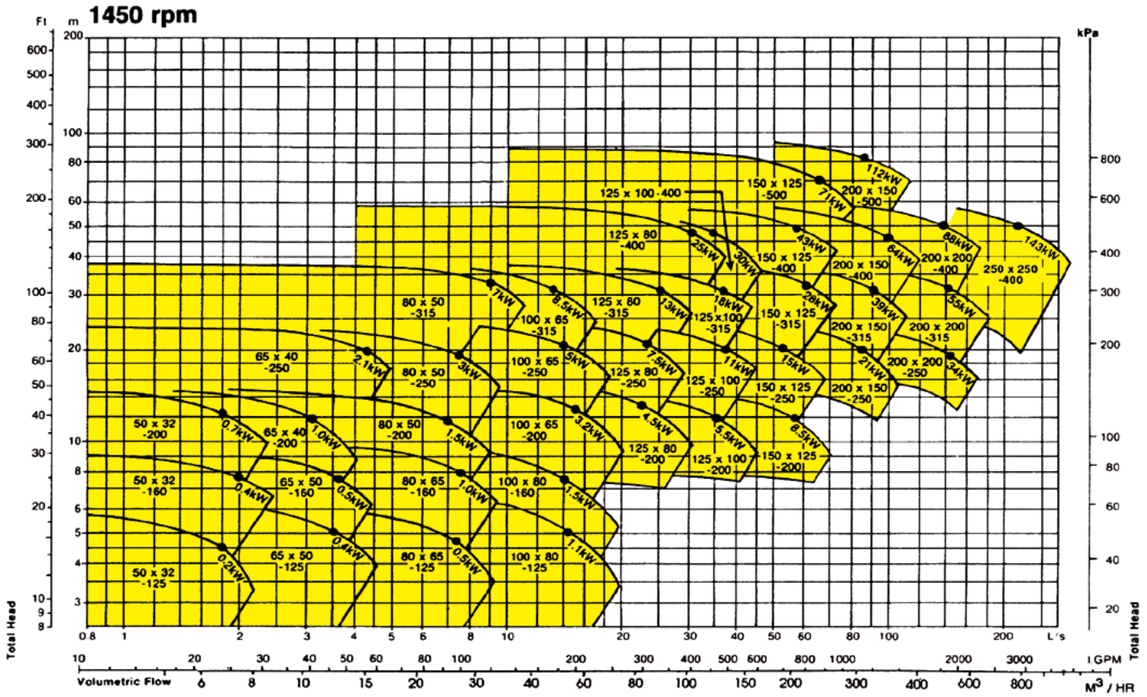
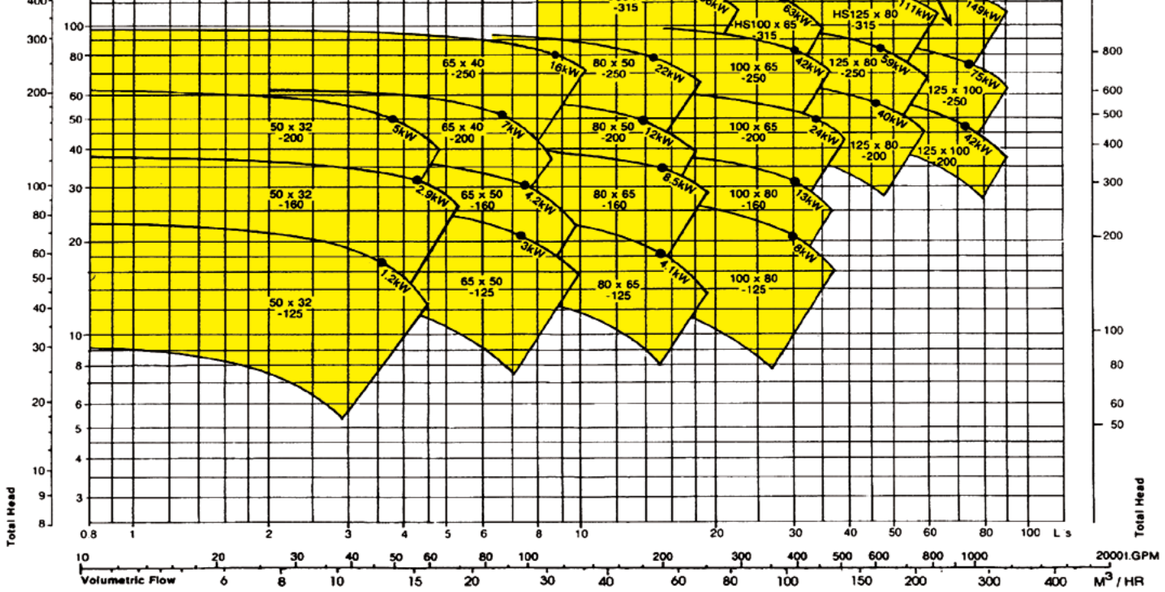
SureSeal - *Process Pump Reliability*

RANGE SELECTION CHART





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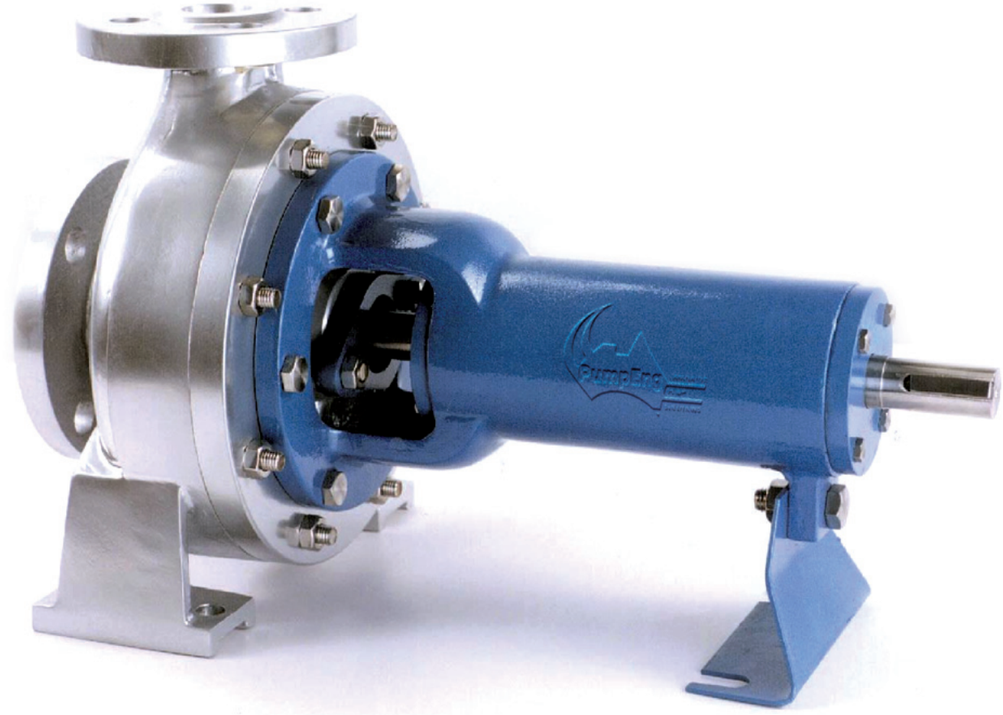
THE TOUGH MINING AND INDUSTRIAL PUMP

SureSeal-ISO

PROCESS PUMP RELIABILITY



The SureSeal ISO, end suction, back pull out pump offers **"Increased Operating Reliability"** by incorporating a unique **Dual Seal*** design.

ISO 2858 & optional ISO 5199 "Chemical Process Pump" compliant.

The SureSeal Dual Seal* design virtually **"eliminates the costs and inconvenience of unscheduled downtime"** caused by Mechanical seal failure.

*Patent pending.

www.pumpeng.com.au

Eliminate The Costs and Inconvenience of Unscheduled Downtime Caused by Mechanical Seal Failure.

Production Profitability

In Today's globally competitive world a lot of focus has been placed on increasing productivity in a bid to improve company profitability. Pumps as an integral component of the processing stream have come under considerable scrutiny with a key factor contributing to production profitability being the true cost of unscheduled downtime.

Increased Mechanical Seal Usage

It is a well documented fact that the most common cause of pump failure is due to the failure of the Mechanical Seal. Environmental issues associated with product leakage and economic issues associated with product dilution/waste are key factors driving the trend towards the increased use of mechanical seals in pump.

Mechanical Seal Failure Rates

Present estimates claim that premature Mechanical Seal failure accounts for in excess of 85% of all seal failures. Most Mechanical Seal failures are catastrophic causing total pump failure, this coupled with a trend which decreases the use of Packed Glands and increases the use of Mechanical Seals for shaft sealing means that we can expect an increase in the total cost of unscheduled downtime.

Dual Seal* Solution

PumpEng has designed and is proud to present an innovative and cost effective solution to this problem by way of the development of the SureSeal Pump.

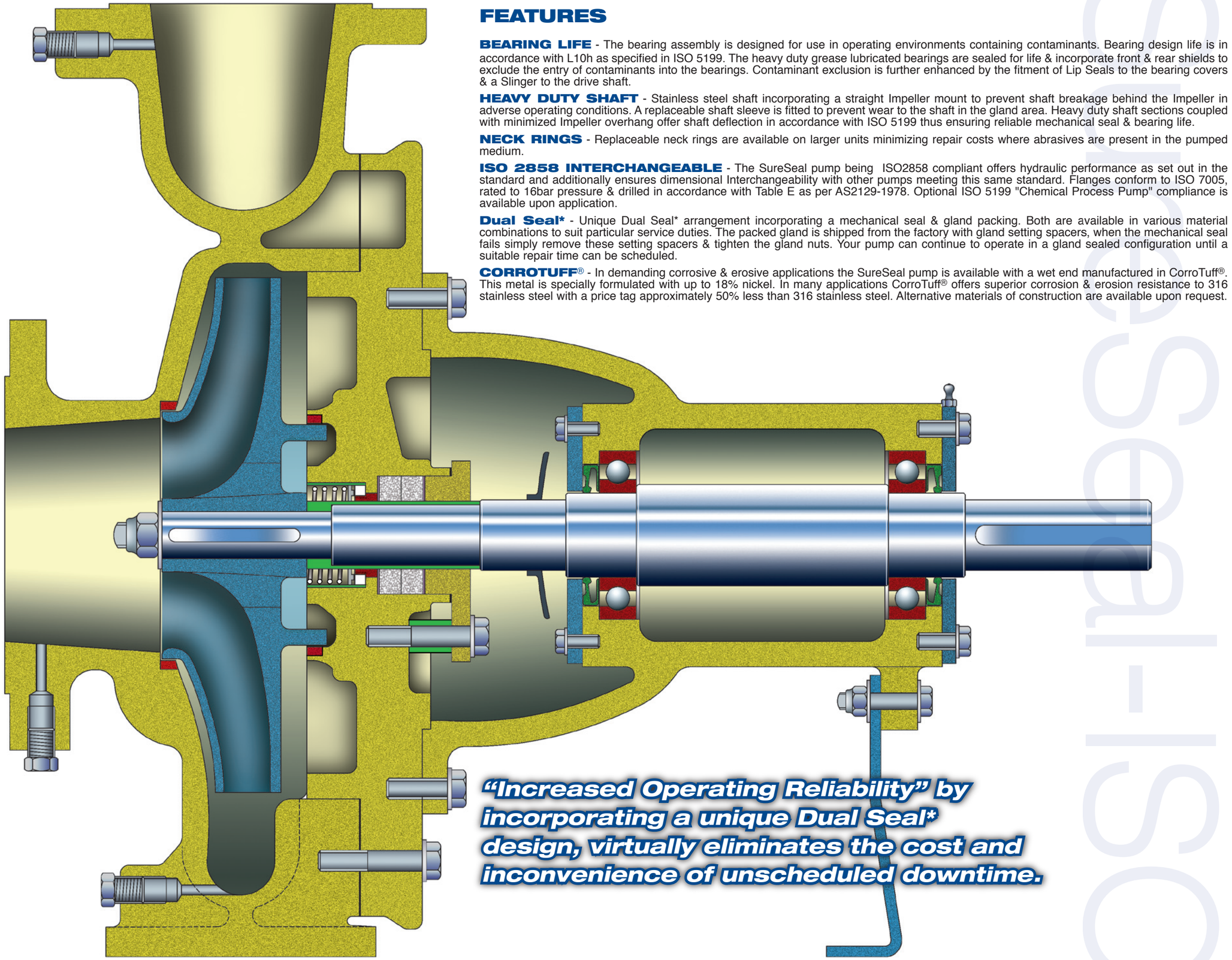
The SureSeal pump achieves shaft sealing via a unique Dual Seal* arrangement which incorporates a Mechanical Seal as the primary seal offering all of the environmental/ economic advantages that a Mechanical Seal has to offer. Within the same Seal Chamber the SureSeal pump also incorporates a Packed Gland arrangement.

When the Mechanical Seal suffers a catastrophic failure you simply tighten the Gland Packing and leave your pump running until you can organize parts and a suitable time to undertake scheduled maintenance. No More Unscheduled Downtime caused by a mechanical seal failure

Save Time & Money

Your decision to purchase a SureSeal pump has saved your Company money and improved profitability by improving the operating efficiency of both the production and maintenance departments. Your production facility is able to keep running unimpeded whilst your maintenance crew are able to continue repairing/maintaining equipment in line with your scheduled maintenance plan.

*Patent pending.



FEATURES

BEARING LIFE - The bearing assembly is designed for use in operating environments containing contaminants. Bearing design life is in accordance with L10h as specified in ISO 5199. The heavy duty grease lubricated bearings are sealed for life & incorporate front & rear shields to exclude the entry of contaminants into the bearings. Contaminant exclusion is further enhanced by the fitment of Lip Seals to the bearing covers & a Slinger to the drive shaft.

HEAVY DUTY SHAFT - Stainless steel shaft incorporating a straight Impeller mount to prevent shaft breakage behind the Impeller in adverse operating conditions. A replaceable shaft sleeve is fitted to prevent wear to the shaft in the gland area. Heavy duty shaft sections coupled with minimized Impeller overhang offer shaft deflection in accordance with ISO 5199 thus ensuring reliable mechanical seal & bearing life.

NECK RINGS - Replaceable neck rings are available on larger units minimizing repair costs where abrasives are present in the pumped medium.

ISO 2858 INTERCHANGEABLE - The SureSeal pump being ISO2858 compliant offers hydraulic performance as set out in the standard and additionally ensures dimensional Interchangeability with other pumps meeting this same standard. Flanges conform to ISO 7005, rated to 16bar pressure & drilled in accordance with Table E as per AS2129-1978. Optional ISO 5199 "Chemical Process Pump" compliance is available upon application.

Dual Seal* - Unique Dual Seal* arrangement incorporating a mechanical seal & gland packing. Both are available in various material combinations to suit particular service duties. The packed gland is shipped from the factory with gland setting spacers, when the mechanical seal fails simply remove these setting spacers & tighten the gland nuts. Your pump can continue to operate in a gland sealed configuration until a suitable repair time can be scheduled.

CORROTUFF® - In demanding corrosive & erosive applications the SureSeal pump is available with a wet end manufactured in CorroTuff®. This metal is specially formulated with up to 18% nickel. In many applications CorroTuff® offers superior corrosion & erosion resistance to 316 stainless steel with a price tag approximately 50% less than 316 stainless steel. Alternative materials of construction are available upon request.

"Increased Operating Reliability" by incorporating a unique Dual Seal* design, virtually eliminates the cost and inconvenience of unscheduled downtime.