

# FEATURES

## A Suction impeller

The first stage suction impeller that is engineered with a wider inlet diameter reducing of the velocity of the liquid for reduced friction and increased suction capability (or low NPSH, as required).

## B U-turn channels

The salient rounded edges of the U-turn channels in each stage casing ensure a balanced velocity allocation of the liquid being pumped, reducing losses and increasing hydraulic efficiency from one stage to the next.

## C Balancing system

The balancing system consists of the balancing bushing, installed in the discharge casing, and the balancing drum, assembled on the shaft. The system uses the force of the liquid being pumped to reduce load on mechanical seal and wear on the bearings. The complete system can be disassembled for maintenance without removing pump from its piping.

## D Seal housing

Large, self-cleaning seal housing transports particles outwards along the conical-shaped chamber to the relief piping, then back from sealing chamber to suction side to ensure seal longevity.

## E Sensor interfaces

Two standard pressure sensors, one at suction and one at discharge nozzle, measure inlet and outlet pressure, while optional sensors, one for horizontal, one for vertical, at the bearing frame can measure vibrations and bearing temperature. The sensors can be connected to any intelligent plant monitoring and diagnostic system to monitor the pump's performance.

## F Plain bearing

e-MPA, e-MPR and e-MPV pumps have suction side plain bearings which are lubricated by the liquid being pumped.

