

Abstract of the disclosure:

Pump drive unit for conveying a process fluid

A pump drive unit is proposed for conveying a process fluid having a common
5 housing (4) which surrounds a pump (2) having an impeller (21) for rotation about
an axial direction (A) and a drive (3) for the pump (2), having a shaft (5) for driving
the impeller (21) which connects the drive (3) to the pump (2), and having a
restrictor (13) which extends around the shaft (5) and is arranged between the
10 impeller (21) and the drive (3), with the housing (4) having a pump inlet (22) and a
pump outlet (23) for the process fluid, with an inlet (43) being provided for a barrier
fluid through which the barrier fluid can be introduced into the drive (3) and with an
outlet (44) being provided for the barrier fluid through which the barrier fluid can be
drained from the housing (4), and wherein a plurality of storage chambers (11) for
15 the barrier fluid are provided at the shaft (5) in the region between the restrictor
(13) and the drive (3), said storage chambers (11) are arranged behind one
another with respect to the axial direction (A), with a respective two adjacent
storage chambers (11) being in flow communication with one another.