

## Elbow Pumps RPP/RPG

The typical pump for large capacity at low discharge heads (circulation pump with axial impeller). Available in welded or cast construction with reinforcing ribs. Available with 3 or 4 blades depending on the requested differential head.



### Applications

- Crystallisation plants
- Vaporisation plants
- Reactor loops
- Sludge recirculation
- Pumping stations

### Features

- Thick blade profiles for long service life
- Gentle transport with sensitive, crystalline fluids
- Available in a wide range of metallic materials

### Facts & Figures

Nominal dimensions:	DN 250–700 mm
	10–28", cast
	DN 250–1400 mm
	10–56", welded
Flow rate:	up to 8300 l/s
	130 000 US gpm
Differential head:	up to 10 m, 33 ft
Pressure:	up to 6 bar, 90 psi,
	from DN 600
	4 bar, 60 psi
Temperature:	up to 140 °C/285 °F

### Typical pumped liquids

- Crystalline suspensions
- Reaction mixtures
- Concentrated acids and bases
- Abrasive media
- Brine and seawater
- Fibrous media
- Sludges and waste water

### Reliable sealing systems

There is a choice of cartridge mechanical seals as well as the classical stuffing box packing. Egger axial pumps with stuffing box packing have easy-access. This allows quick replacement of the packing cords without emptying the piping nor disassembling the pump.

## Advantages

### Robust construction – long service life

For abrasive fluids, Egger uses very thick blade profiles to ensure long operating times. Generously dimensioned roller bearings and a free floating Cantilever shaft without wetted bearings to ensure long service life with minimal maintenance.

### Gentle transport

The elongated blade profile ensures low-vibration operation. Thus, the Egger Axial pumps operate very gently with sensitive crystalline fluids.

### Fiber repellent

Fluids containing fibers tend to clog pumps quickly. Egger introduced therefore the series RPGA with specially moulded, fiber-repellent blade leading edges.

### Saving energy – suction behaviour

Due to the systematic development of the flow geometry, our elbow propeller pumps attain an overall efficiency up to 75% and have good suction characteristics.

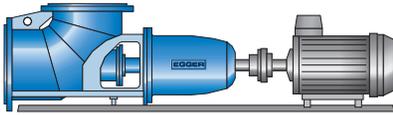
### Tough applications with corrosive fluids

Egger axial pumps are designed for highly corrosive fluids and are available in a wide range of materials. The shaft is sealed from the pumped fluids. The propeller blades are welded on the hub to avoid crevice corrosion and to prevent the ingress of liquids into the propeller head.

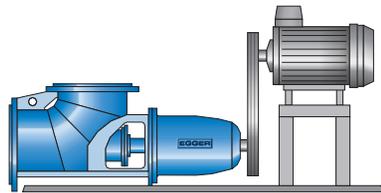
# Types of mounting

Egger axial pumps are specially fabricated to customer requirements and exist in various types of mounting. They are available clockwise and counter clockwise as well as in cast or welded constructions. Special designs for temperatures up to 280°C and pressures up to 25 bar already exist. Versions with special dimensions allow easy adaption to existing elbow systems.

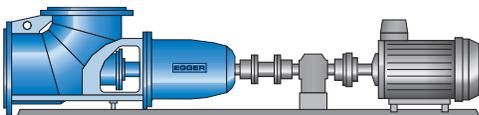
## Foot-mounted on baseplate



Direct-coupled



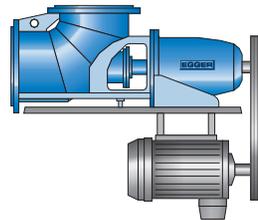
V-belt drive



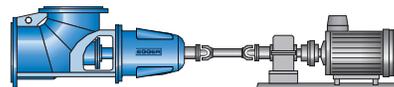
Spur gear drive

## Special designs on request

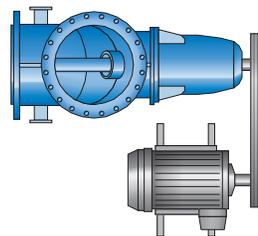
## Pump suspended in the pipeline



Motor suspended, V-belt drive

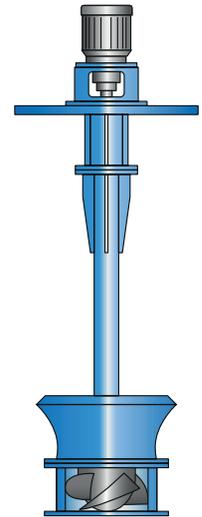


Universal joint drive with spur gear

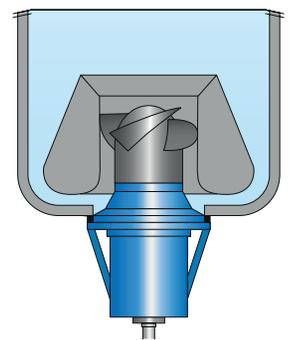


Motor assembled adjacent, on slide rails

## Special designs



Recirculation propeller



Internal tank circulation

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Further information can be found on:  
[www.eggerpumps.com](http://www.eggerpumps.com)