

RELY ON EXCELLENCE

## eSPU6 Circulation pump

Seal Supply Systems | Pumps



### Advantages

- Canned pump: Hermetically sealed and mostly maintenance-free
- For operating pressures of up to max. 250 bar
- Carbon graphite thrust bearing: During operation, balanced by double-fluted design of the pumping screw.
- Zirconium oxide sleeve to minimize the magnetic losses of the magnetic coupling

### Recommended applications

- Petrochemical industry
- Chemical industry
- Oil and gas industry
- Refining technology
- Food and beverage industry
- Pharmaceutical industry

### Features

Circulation pumps of the eSPU6 series are canned motor pumps, designed as screw pumps with radial stage.

The ideal field of application are closed high pressure circuits in process hydraulic systems. For this purpose the eSPU6 is a real and inexpensive alternative to glandless centrifugal pumps. The eSPU6 pumps are not self-priming, which means that the pump circuit must be well vented.

### Notes

The circulation pump must be operated using a suitable soft start device. This is included in the scope of delivery for the basic versions and is supplied as a separate component.

The installation of this unit must be carried out by the customer and in compliance with the applicable Ex regulations.

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### Installation, details, options

#### Product variants

| Designation                                   | eSPU6  | eSPU6   |
|---|--|---|
| Type of seal                                  | Magnetic coupling                                    | Magnetic coupling   |
| Secondary seals                               | FKM (V)  | FFKM (K)  |
| Max. allowable viscosity (mm <sup>2</sup> /s) | 100*   | 100*  |
| Max. working pressure (Oil)                   | 250 bar (3,625 PSI) @ 150 °C (302 °F)                | 250 bar (3,625 PSI) @ 150 °C (302 °F) 200 bar (2,900 PSI) @ 200 °C (392 °F) |
| Max. working pressure (Water)                 | 250 bar (3,625 PSI) @ 75 °C (167 °F)                 | 250 bar (3,625 PSI) @ 150 °C (302 °F)                                       |
| Min. fluid temperature                        | -17 °C (1.5 °F)                                      | -1 °C (30.2 °F)   |
| Min. ambient temperature                      | -29 °C (-20.2 °F)                                    | -10 °C (14 °F)  |
| Type of explosion protection                  | Ex II 2G Ex h IIC T4 GbEx II 2D Ex h IIIC T130 °C Db | Ex II 2G Ex h IIC T4 GbEx II 2D Ex h IIIC T130 °C Db                        |
| Motor power 0.75 kW                           | <ISO VG 32*  | <ISO VG 32*   |
| Motor power 1.10 kW                           | ≥ISO VG 32* or 60 Hz                                 | ≥ISO VG 32* or 60 Hz  |
| Weight pump head without motor                | 48.5 kg (107 lb)                                     | 48.5 kg (107 lb)  |
| Metal parts                                   | 316L (1.4404)/1.4122                                 | 316L (1.4404)/1.4122  |

Circulating units with higher capacity or for other fluids or viscosities on request.

\* Considering the respective working point