

Pumping Station

AZE-3



Tank assembly 1000dm³



Plunger pump T-125/30



Plunger pump T-125/30

SPCIFICATION:

- | | |
|------------------------------|------------------------------|
| ✓ Pump output | 2 x 125 dm ³ /min |
| ✓ Pump type | 2 x T-125/30 |
| ✓ Working pressure | 20 - 30 MPa |
| ✓ Transiant pressure | 34 MPa |
| ✓ Working fluid | 0,7 ÷ 2% water oil emulsion |
| ✓ Engine power | 2 x 75 kW |
| ✓ Drive speed | 1480 Rpm |
| ✓ Tank capacity | 1200 dm ³ |
| ✓ High pressure filtration : | |
| • type F-125/32 * | 3x125 dm ³ /min |
| ✓ Return flow filtration: | |
| • type SFB-160 * | 160 dm ³ /min |
| ✓ Pump system dimensions | 8500x1050x1180 |
| ✓ mass of pumping station | 4428 kg |

* We offer other types of filters that work to a similar specification.



DESCRIPTION:

The pump station is comprised of: two pump engines and a water oil emulsion tank. The pump draws in the emulsion from the tank assembly and pumps it through the unload valve into the filtration assembly and afterwards to the power bus (usually in the form of mechanical roof supports). Depending on the demand for working fluid one or both of the pumps may be running.

The tank receives emulsion from the power bus return. An integrated tank level sensor will switch of the pump engines in the event that minimum levels are exceeded.

APPLICATION:

The **AZE-3** type pumping station are above all intended for use in powering mechanical roof supports using water oil emulsion. The system is ideally suited for use in central pumping station applications. The pumping stations can also be used to deliver two different working pressures:

- ✓ **32 MPa** - mechanical roof supports,
- ✓ **12÷16 MPa** - hydraulic actuators.

Agregaty zasilające typu **AZE-3** przeznaczone są przede wszystkim do zasilania obudów zmechanizowanych emulsją olejowo-wodną o zawartości około 0,7÷2% oleju emulgującego. Agregaty te są szczególnie przydatne do zabudowy w centralnych pompowniach. Mogą być również stosowane do zasilania obudów wymagających dwóch wielkości ciśnienia zasilania:

The **AZE-3** meets E.U. safety classification and certification requirements. The **AZE-3** is a Group I Device and is in the **M2** Category for equipment working in areas at risk of explosion. It meets Poland's legal requirements relating to the "essential requirements for equipment and protective systems intended for use in potentially explosive atmospheres (OJ No 263/2005, item. 2203)". This law complies with the EU Directive **94/9/EC (ATEX)**.

The device can therefore be used in deep mining operations and in the presence of methane at sites that are in the "a", "b" and "c" hazard classes for methane explosion and "A" and "B" hazard classes for coal dust explosion.



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The unit is to be switched off by the operator if a risk of explosion develops and/or if methane concentration exceeds acceptable levels.

This T type of pump unit is marked **CE** and  **IM2** markings indicating its compliance with EU directives.

The working parameters can be adjusted on request of the client to any given working parameters (within the capabilities of the pump)