

# Harben P Type HPU & Flushing Pumps

## PUMP OUTPUTS

The tables below show the performance in l/min that can be expected when operating on 50 Hz and 60 Hz electrical supplies with a 6 pole motor at maximum working pressure. The Harben® P type pump can be operated at up to 1300 rpm and when used with inverter drives (VFD) the flow will be proportionally higher than those shown. The Harben® pump is suitable for use on most subsea control fluids at its rated operating pressure.

### 50 Hz supply

|   | P Pump Model * | 415 Bar |      |      |      | 350 Bar |      |      |      | 275 Bar |      |      |      |
|---|----------------|---------|------|------|------|---------|------|------|------|---------|------|------|------|
|   |                | 3x18    | 4x18 | 6x18 | 8x18 | 3x20    | 4x20 | 6x20 | 8x20 | 3x22    | 4x22 | 6x22 | 8x22 |
| Motor Power kW / 6 pole / 50 Hz / 975 rpm | 11 kW          | 9.2     | 12.6 |      |      | 12.1    |      |      |      | 17.8    |      |      |      |
|   | 15 kW          |         |      | 18.9 |      |         | 17   |      |      |         | 23.3 |      |      |
|   | 18.5 kW        |         |      |      |      |         | 25.3 |      |      |         |      |      |      |
|   | 22 kW          |         |      |      | 26.4 |         |      | 33.9 |      |         |      | 36   |      |
|   | 30 kW          |         |      |      |      |         |      |      |      |         |      |      | 45.5 |

### 60 Hz supply

|   | P Pump Model * | 415 Bar |      |      |      | 350 Bar |      |      |      | 275 Bar |      |      |      |
|---|----------------|---------|------|------|------|---------|------|------|------|---------|------|------|------|
|   |                | 3x18    | 4x18 | 6x18 | 8x18 | 3x20    | 4x20 | 6x20 | 8x20 | 3x22    | 4x22 | 6x22 | 8x22 |
| Motor Power kW / 6 pole / 60 Hz / 1175 rpm ** | 11 kW          | 11.1    | 15.2 |      |      | 14.6    |      |      |      |         |      |      |      |
|   | 15 kW          |         |      |      |      |         | 21   |      |      | 21.5    |      |      |      |
|   | 18.5 kW        |         |      | 22.8 |      |         |      |      |      |         | 28   |      |      |
|   | 22 kW          |         |      |      |      |         |      | 30.5 |      |         |      |      |      |
|   | 30 kW          |         |      |      | 31.9 |         |      |      | 40.9 |         |      | 43.4 | 54.8 |

\* All performances are approximate.

\*\* Motor kW ratings are those stamped for 50Hz operation. 60Hz ratings will be proportionally higher

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