



ITT

ROBOT PUMPS

Stainless Steel Grinder pump

RS2210AK-M

50 Hz

The grinder pumps are designed to pump small quantities of water with high heads. Large solids are effectively cut into very small particles that can be pumped through small pipes without the risk of blocking.

These pumps are also suitable for non-waste water applications where high heads are required.

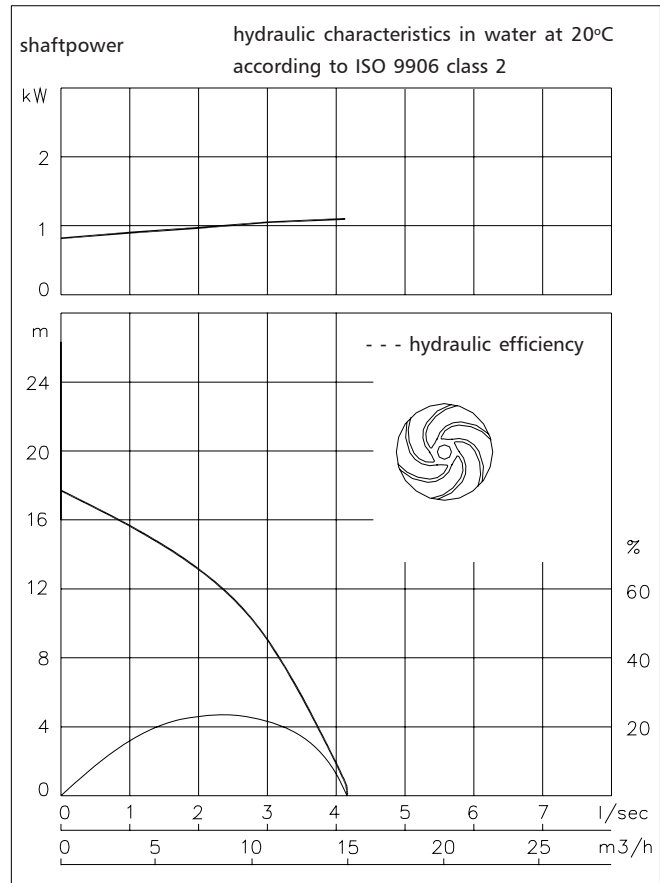
The pumps can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

Pump

- suction diameter : 40 mm
- discharge diameter : 40 mm
- impeller diameter : 114 mm
- recommended minimum flow : 0.5 l/s (2 m³/h)

Motor

- rated shaft power : 1.2 kW
- rated electrical power : 1.5 kW
- mains : 50 Hz - 1 phase
- nominal speed : 2900 rpm
- motor efficiency : 70 %
- rated power factor (cos phi) : 0.87
- degree of protection : IP 68
- isolation class : F (155 °C)
- max. water temperature : 40 °C
(higher temp. on request)
- standard cable length : 10 m



Materials

- motor housing : 5 6
- seal housing : 5 6
- volute : 5 6
- impeller : 5 6
- grinder parts : 7
- shaft : 5 6
- bolts : 5
- elastomers : 10
- electrical cable : 9
- seal lubrication : oil
- pump seal : silicon carbide-silicon carbide
- motor seal : carbon-ceramic

1	cast iron	EN-GJL-250
2	sg cast iron	EN-GJS-400-15
3	stainless steel 431	X20 CrNi 17 2
4	stainless steel 304	X5 CrNi 18 10
5	stainless steel 316	X5 CrNiMo 17 12 2
6	stainless steel 329	X4 CrNiMoN 27 5 2
7	hardened stainless steel (HRc 55)	
8	nitrile	(NBR)
9	chlorinated polyethylene	(CPE)
10	viton	(FPM)

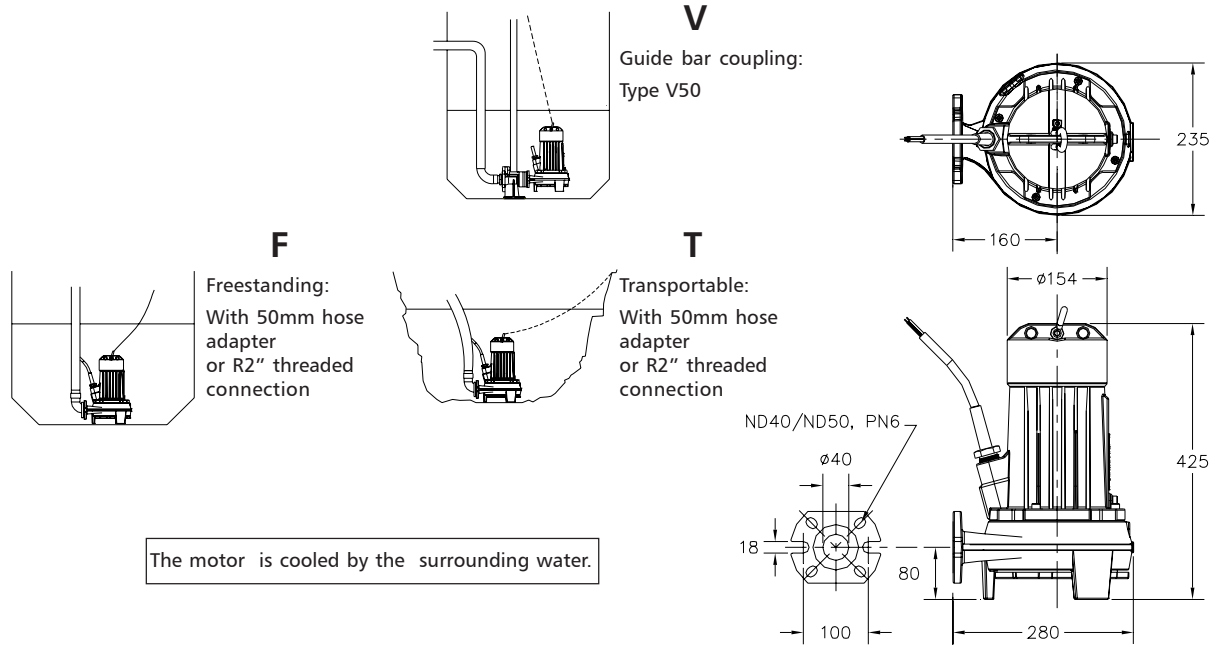
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Installation options

RS2210AK-M



Version	Weight
BR Basic Stainless Steel Standard with thermostiches All parts in stainless steel 316	44 kg
BD Basic Duplex Steel Standard with thermostiches All casted parts in stainless steel 329	44 kg

Optional:

- Flexible protective sheating for cable** (AISI 316)
- Water detector** in motor and oil housing

Motor connection details

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm ²]	
		with thermostiches	
220	8.9	4G1.5 + 2x1.5	35/60 µF/450V
230	8.5	4G1.5 + 2x1.5	35/60 µF/450V
240	8.1	4G1.5 + 2x1.5	35/60 µF/450V

starting current

: 4.4 x rated current

* other voltages on request

We reserve the right to alter specifications without prior notice