



ITT

ROBOT PUMPS

Stainless Steel Grinder pump

RS2210BD

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.

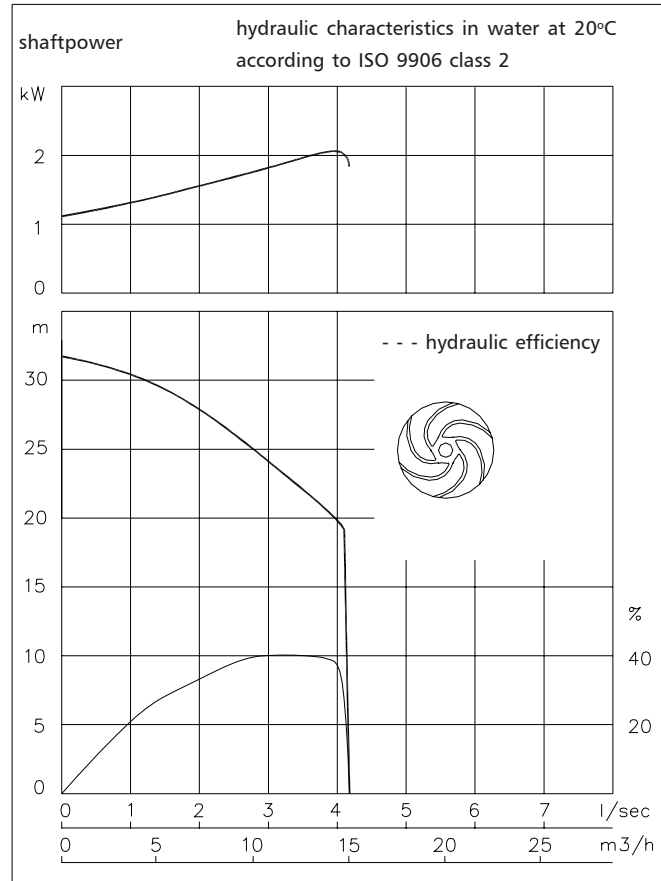
The pumps can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

Pump

suction diameter : 40 mm
discharge diameter : 40 mm
impeller diameter : 146 mm
recommended minimum flow : 0.5 l/s (2 m³/h)

Motor

rated shaft power : 2.2 kW
rated electrical power : 2.8 kW
mains : 50 Hz - 3 phase
nominal speed : 2900 rpm
motor efficiency : 79 %
rated power factor (cos phi) : 0.89
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)

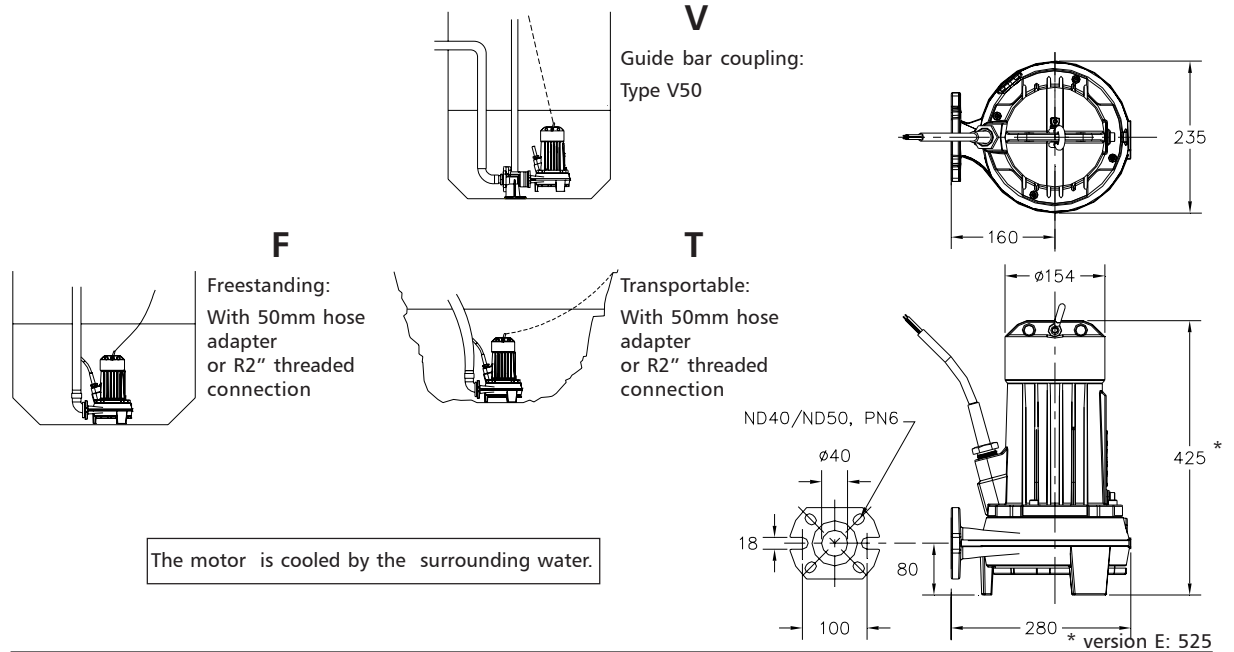
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Engineered for life



Installation options

RS2210BD



Version

Weight

BR Basic Stainless Steel

47 kg

Standard with thermostiches
All external parts in stainless steel 316

BD Basic Duplex Steel

47 kg

Standard with thermostiches
All casted parts in stainless steel 329

ER Explosion proof

54 kg

Certified according to: II 2 G Ex de IIB c T4
Standard with thermostiches
All parts in stainless steel 316

Optional:

Flexible protective sheating for cable
(AISI 316)

Water detector in motor and oil housing
(for explosion proof version only in oil housing with external cable)

Motor connection details

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm ²]			
		with thermostiches		explosion proof version	
			DOL-start		DOL-start
220	8.2		4 G 1.5 + 2x1.5		7 G 2.5
380	4.8		4 G 1.5 + 2x1.5		7 G 2.5
400	4.5		4 G 1.5 + 2x1.5		7 G 2.5
415	4.4		4 G 1.5 + 2x1.5		7 G 2.5
500	3.6		4 G 1.5 + 2x1.5		7 G 2.5

starting current DOL-start

: 5.3 x rated current

* other voltages on request

We reserve the right to alter specifications without prior notice