



# ITT

## ROBOT PUMPS

### Stainless Steel Grinder pump

### RS2210BE

### 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

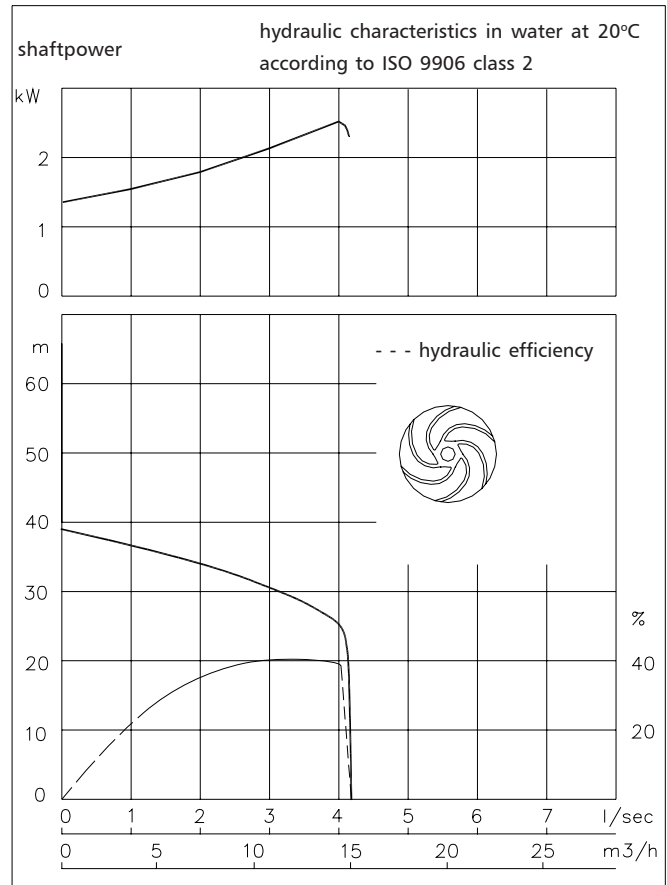
suction diameter : 40 mm  
discharge diameter : 40 mm  
impeller diameter : 160 mm  
recommended minimum flow : 0.5 l/s (2 m<sup>3</sup>/h)

#### Motor

rated shaft power : 2.6 kW  
rated electrical power : 3.5 kW  
mains : 50 Hz - 3 phase  
nominal speed : 2900 rpm  
motor efficiency : 74 %  
rated power factor (cos phi) : 0.90  
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)

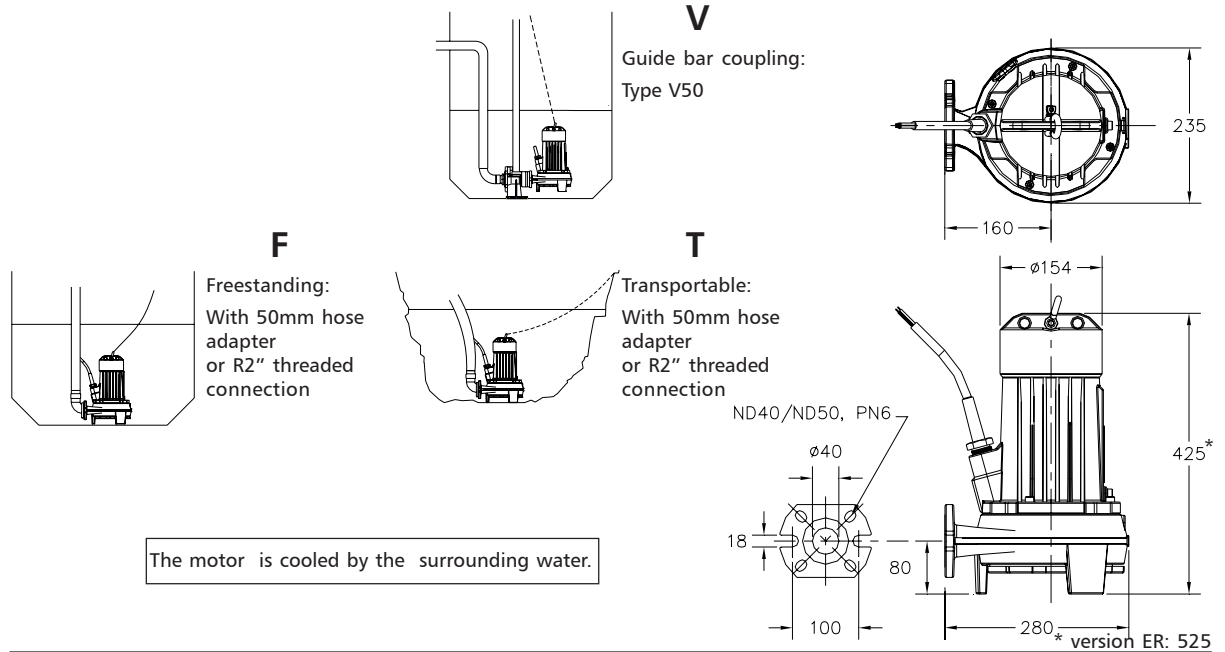
[www.ittwalphen.com](http://www.ittwalphen.com)

*Engineered for life*



### Installation options

### RS2210BE



#### 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

		number of cables x number of cores x cross section [mm <sup>2</sup> ]				
voltage [V]*	rated current[A]	with thermostiches			explosion proof version	
			DOL-start	YD-start	DOL-start	
220	10.2		4 G 1.5 + 2x1.5	7 G 2.5 + 2x1.5	7 G 2.5	
380	5.9		4 G 1.5 + 2x1.5	7 G 2.5 + 2x1.5	7 G 2.5	
400	5.6		4 G 1.5 + 2x1.5	7 G 2.5 + 2x1.5	7 G 2.5	
415	5.4		4 G 1.5 + 2x1.5	7 G 2.5 + 2x1.5	7 G 2.5	
500	4.5		4 G 1.5 + 2x1.5	7 G 2.5 + 2x1.5	7 G 2.5	

starting current DOL-start : 4.6 x rated current

\* other voltages on request

starting current YD-start : 1.5 x rated current

We reserve the right to alter specifications without prior notice