



# ITT

## ROBOT PUMPS

### Stainless Steel Grinder pump

### RS2210BG

### 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.

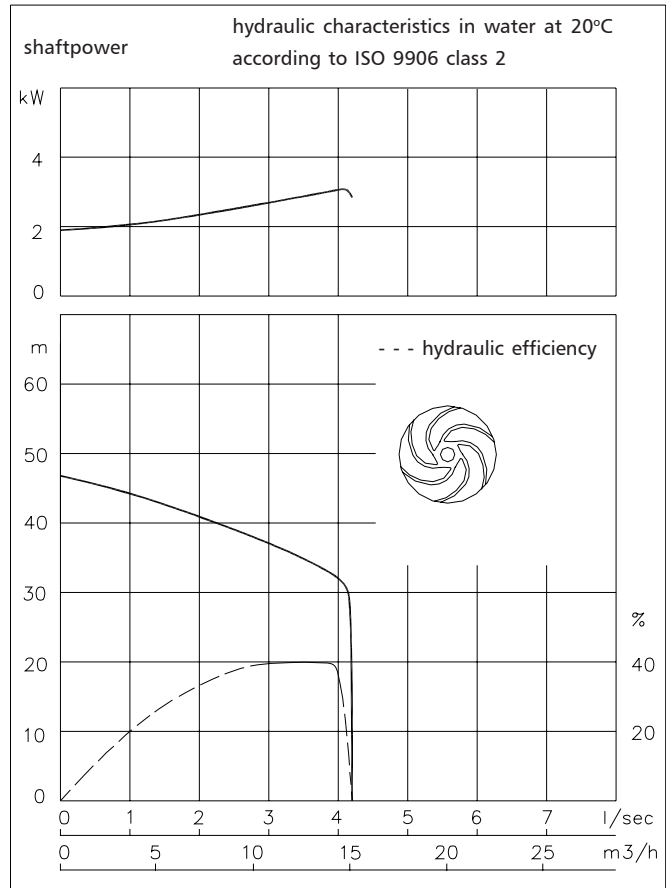
The pumps can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

#### Pump

- suction diameter : 40 mm
- discharge diameter : 40 mm
- impeller diameter : 172 mm
- recommended minimum flow : 0.5 l/s (2 m<sup>3</sup>/h)

#### Motor

- rated shaft power : 3.2 kW
- rated electrical power : 3.9 kW
- mains : 50 Hz - 3 phase
- nominal speed : 2900 rpm
- motor efficiency : 82 %
- rated power factor (cos phi) : 0.84
- 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)

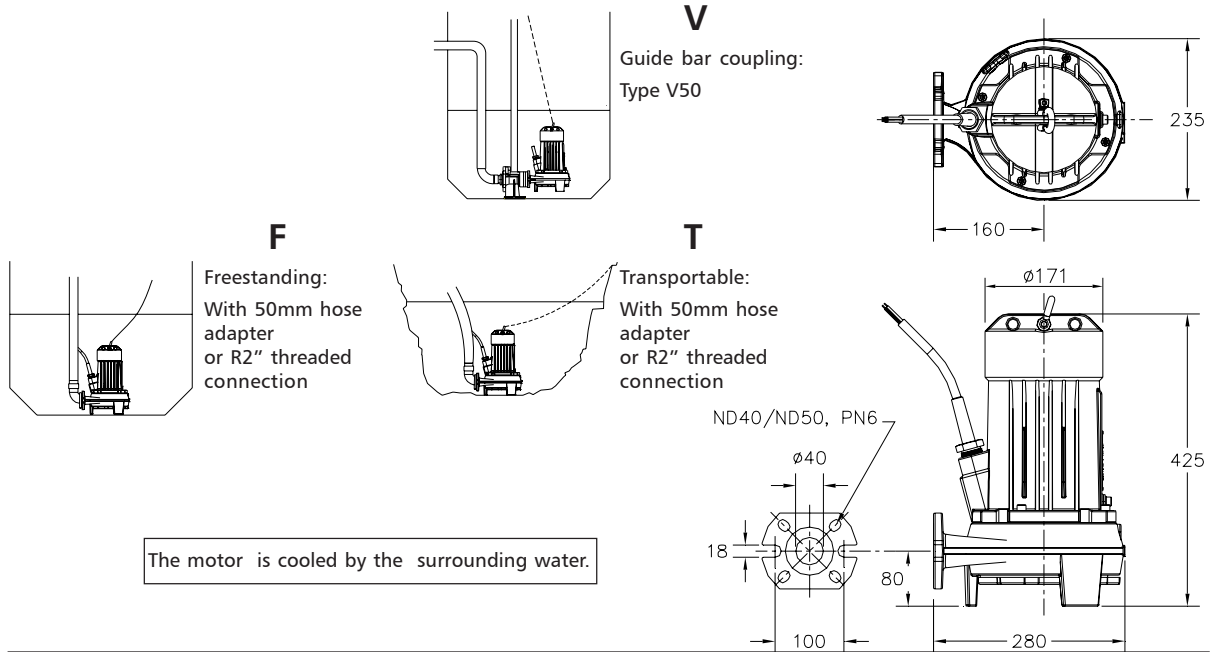
[www.ittwalphen.com](http://www.ittwalphen.com)

*Engineered for life*



### Installation options

### RS2210BG



#### Version

#### Weight

#### BR Basic Stainless Steel

Standard with thermostiches  
All external parts in stainless steel 316

47 kg

#### BD Basic Duplex Steel

Standard with thermostiches  
All casted parts in stainless steel 329

47 kg

#### Optional:

**Flexible protective sheathing for cable**  
(AISI 316)

**Water detector** in motor and oil housing

### Motor connection details

voltage [V]*	current [A]	number of cables x number of cores x cross section [mm <sup>2</sup> ]			
		with thermostiches			
			DOL-start	YD-start	
220	12.2		4G1.5 + 2x1.5	7G2.5 + 2x1.5	
380	7.1		4G1.5 + 2x1.5	7G2.5 + 2x1.5	
400	6.7		4G1.5 + 2x1.5	7G2.5 + 2x1.5	
415	6.5		4G1.5 + 2x1.5	7G2.5 + 2x1.5	
500	5.4		4G1.5 + 2x1.5	7G2.5 + 2x1.5	

starting current DOL-start : 6.2 x rated current

\* other voltages on request

starting current YD-start : 2.1 x rated current

We reserve the right to alter specifications without prior notice