

Pump type: Submersible vortex pump
Application: Waste water, sewage

Pump data

Solids passage 100 mm
Discharge/ Suction diameter 100 mm/ 100 mm
Impeller type: Vortex
Impeller diameter 235 - 205 mm
Recommended min. flow 6 l/sec (21 m3/h)
Weight 105 kg

Motor

Mains: 50 c/s – 3 phase
Rated shaft power 5.0 kW
Rated electrical power 6.3 kW
Nominal speed 1420 rpm
Motor efficiency 79 %
Power factor (cos phi) 0.82
Degree of protection IP 68
Isolation class F (155°C)
Max. water temperature 40°C
Standard cable length 10 m

Materials

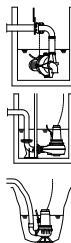
Pump casing AISI 329
Impeller AISI 329
Motor unit AISI 329
Shaft AISI 316
Bolts AISI 316
Elastomers Viton (FPM)
Electrical cable Neoprene (CR)
Seal lubrication Oil
Seal pump side Silicon carbide – Silicon carbide - Viton
Seal motor side Carbon – Ceramic

Installation options

Header coupling BWK 100

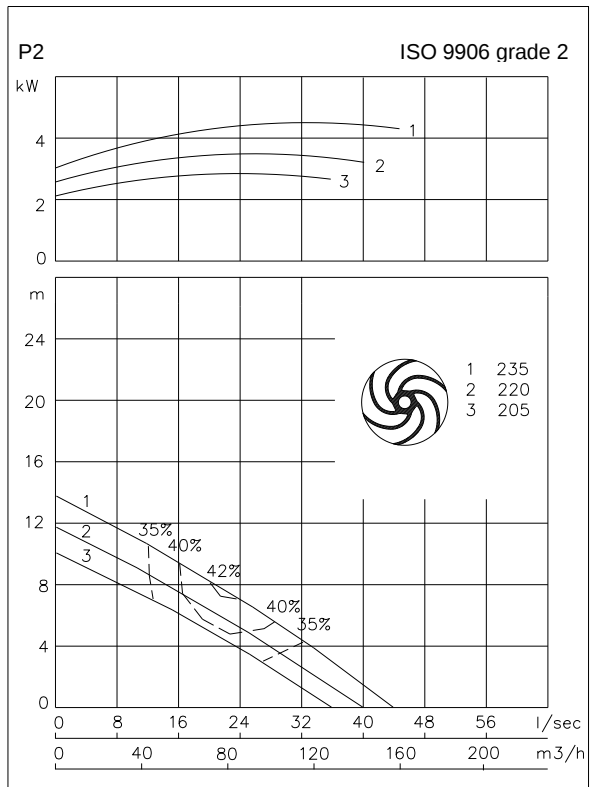
Guide bar coupling OWK 100

Freestanding 100mm hose connection or
Including support (VRS) G 4" threaded connection

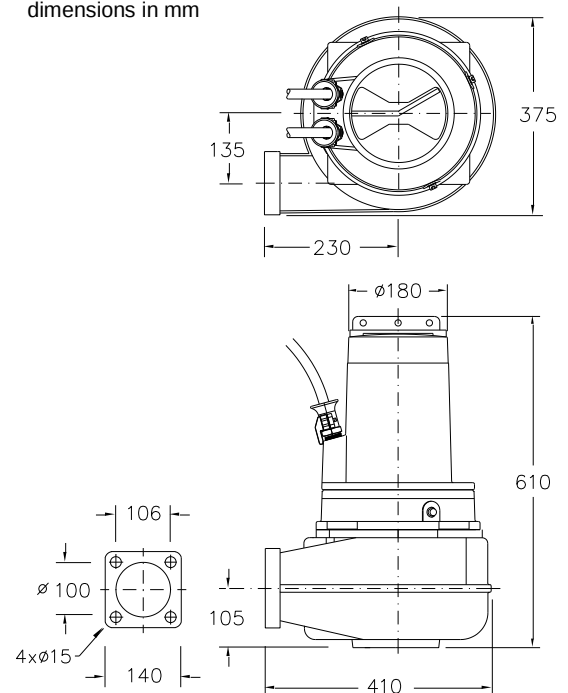


Optional

- Flameproof version, to class: II 2 G Ex d IIB c T4
Standard: II 2 G Ex b c d IIB T4 Gb
With Frequency control: II 2 G Ex b c d IIB T3 Gb
- Thermo switches in stator windings
(standard for flame proof version)
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
Flameproof version with external cable



dimensions in mm



Connections

voltage	current	Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version	
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	19.5	4G2.5	7G1.5	7G2.5	10G1.5	7G2.5	10G1.5
400	11.2	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
500	9.0	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
starting current DOL start : 5.0 x rated current							
starting current YD start : 1.7 x rated current							
						* other voltages on request	