

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

Pump data

Solids passage 65 mm
Discharge/ Suction diameter 67mm/ 72 mm
Impeller type: Vortex
Impeller diameter 178 - 150 mm
Recommended min. flow 2 l/sec (8 m3/h)
Weight 120 kg

Motor

Mains: 50 c/s – 3 phase
Rated shaft power 13.0 kW
Rated electrical power 14.5 kW
Nominal speed 2915 rpm
Motor efficiency 90 %
Power factor (cos phi) 0.87
Degree of protection IP 68
Isolation class F (155°C)
Max. water temperature 40°C
Standard cable length 10 m

Materials

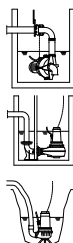
Pump casing Cast iron GG 25 (EN-GJL-250)
Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
Motor unit Cast iron GG 25 (EN-GJL-250)
Shaft AISI 431
Alt: AISI 316
Bolts AISI 316
Elastomers Nitrile (NBR) or neoprene (CR)
Alt: viton (FPM)
Neoprene (CR)
Electrical cable Neoprene (CR)
Seal lubrication Oil
Seal pump side Silicon carbide – silicon carbide
Seal motor side Carbon - Ceramic
Coating Two components polyurethane

Installation options

Header coupling BWK 080

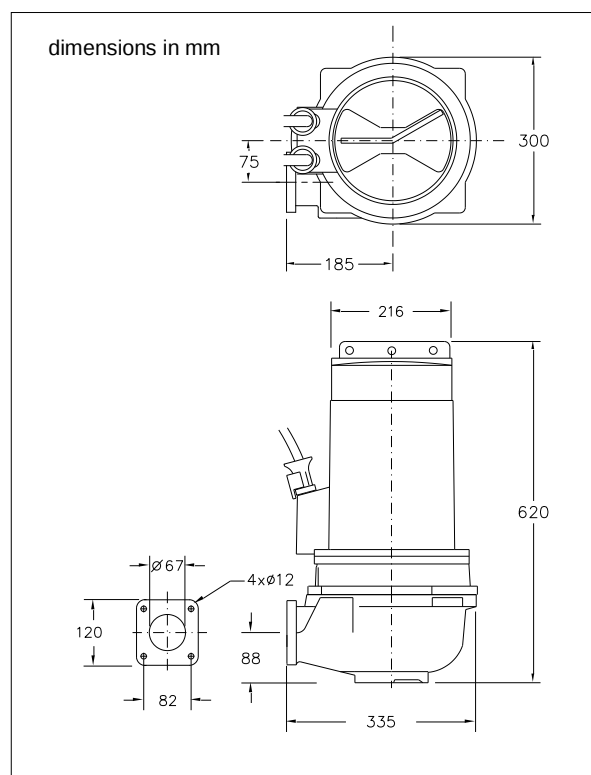
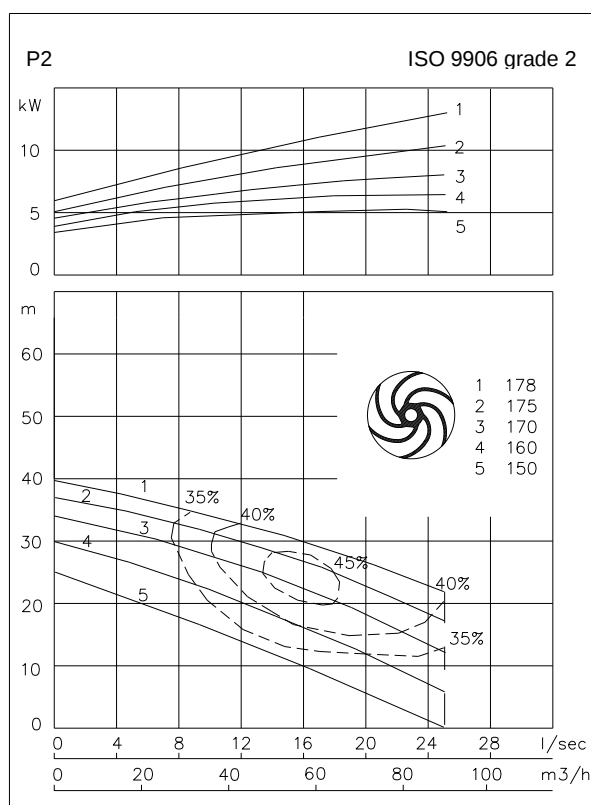
Guide bar coupling OWK 080

Freestanding 75 mm hose connection or
Including support (VRS) G 3" 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



Connections

		Electrical cable size [mm ²]					
voltage	current			motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	42.1	4G10	2x4G6	4G10 + 4G1.5	-	4G10 + 4G2.5	-
400	24.2	4G6	7G1.5	4G6 + 4G1.5	10G1.5	4G6 + 4G2.5	10G1.5
500	19.3	4G2.5	7G1.5	7G2.5	10G1.5	7G2.5	10G1.5
starting current DOL start : 7.8 x rated current							
starting current YD start : 2.6 x rated current						* other voltages on request	