

Pump type: Submersible slurry pump
Application: Abrasive media

Pump data

Solids passage 100 mm
Discharge/ Suction diameter 100 mm/ 110 mm
Impeller type: Vortex
Impeller diameter 245 mm
Recommended min. flow 6 l/sec (21 m3/h)
Weight 140 kg

Motor

Mains: 50 c/s – 3 phase
Rated shaft power 13.0 kW
Rated electrical power 15.1 kW
Nominal speed 1420 rpm
Motor efficiency 86 %
Power factor (cos phi) 0.84
Degree of protection IP 68
Isolation class F (155°C)
Max. water temperature 40°C
Standard cable length 10 m

Materials

Pump casing/ wear plate Nihard 4 (G-X300CrNiSi 9-5)
Impeller Nihard 4 (G-X300CrNiSi 9-5)
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 100



Bottom elbow coupling OWK 100

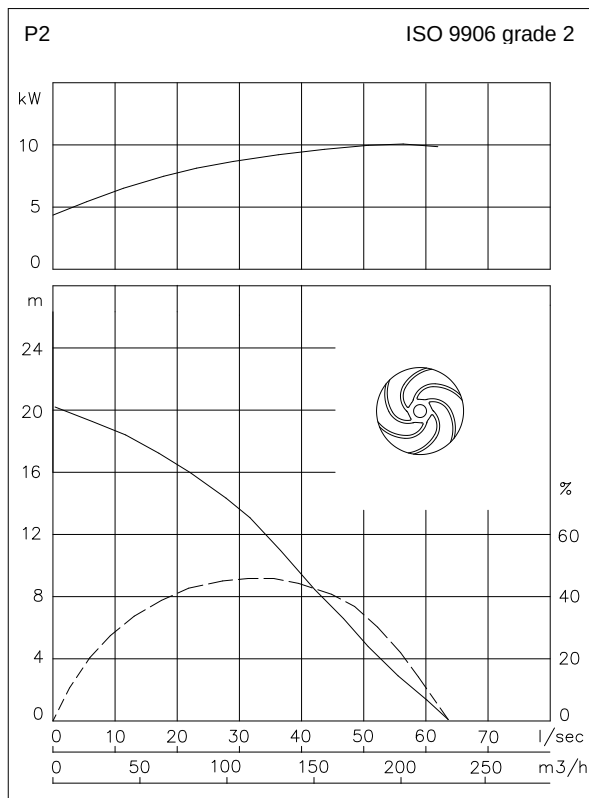


Freestanding NW100 flanged elbow or
Including support (VRS) 100 mm hose connection

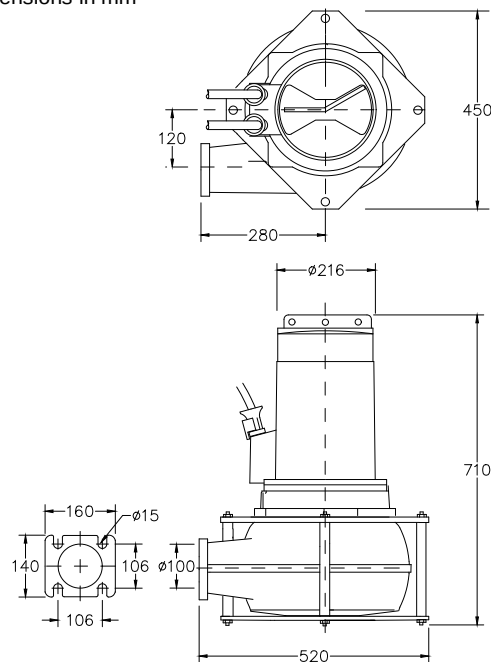


Optional

- Version with agitator, see DNP42-42DZ
Version with slim-line pump casing and agitator, see DNP42-43DZ
- Flameproof version, to class: II 2 G Ex b c 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

		Electrical cable size [mm2]		motor protection and/or water detector		flameproof version	
voltage	current	direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
[V]*	[A]						
230	45.4	4G10	2x4G6	4G10 + 4G1.5	-	4G10 + 4G2.5	-
400	26.1	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5
500	20.9	4G6	7G1.5	4G6 + 4G1.5	10G1.5	4G6 + 4G2.5	10G1.5
starting current DOL start : 5.0 x rated current							
starting current YD start : 1.7 x rated current							
						* other voltages on request	