

Pump type: Submersible slurry pump with agitator

Application: Abrasive media

Pump data

Solids passage 30 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 190 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 110 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

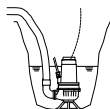
Materials

Pump casing + wear plate Nihard 4 (G-X300CrNiSi 9-5)
 Impeller + agitator Nihard 4 (G-X300CrNiSi 9-5)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Neoprene (CR)
 Electrical cable

Seal lubrication Oil
 Seal pump side Silicon carbide – silicon carbide
 Seal motor side Carbon - Ceramic
 Coating Two components polyurethane

Installation

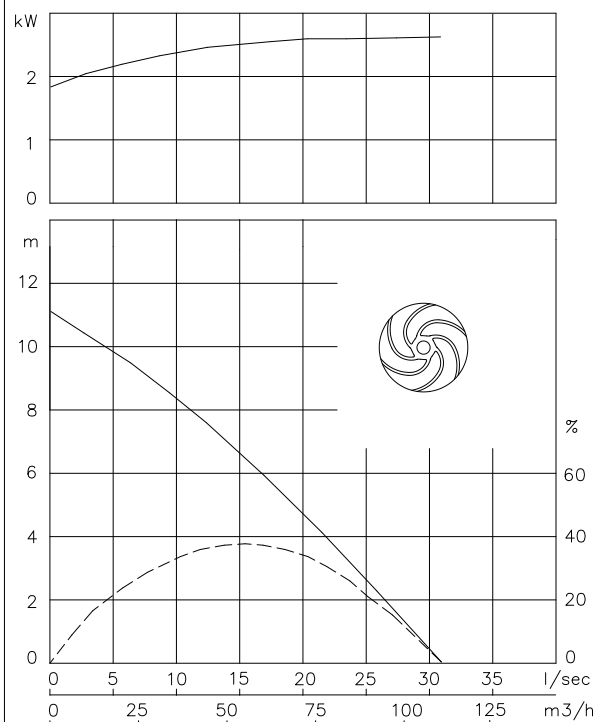
Freestanding NW100 flanged elbow
 Including support (VRS)



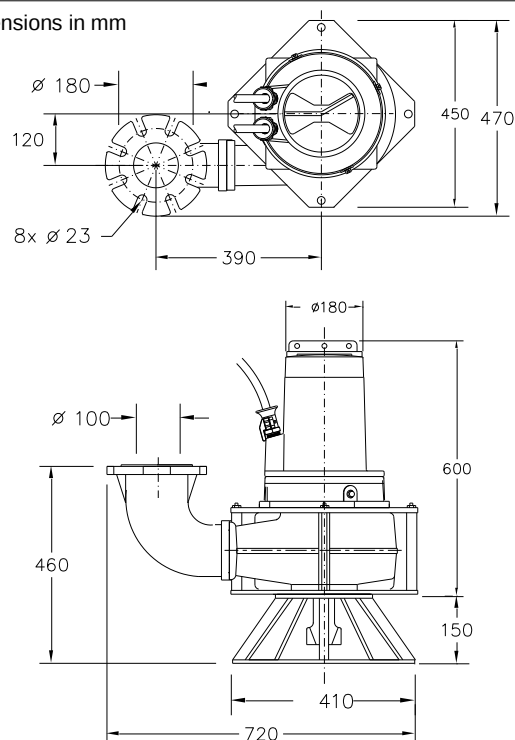
Optional

- Version without agitator, see DNP42-30DJ
- 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

P2 ISO 9906 grade 2



dimensions in mm



Connections

		Electrical cable size [mm2]		motor protection and/or water detector		flameproof version	
voltage	current						
[V]*	[A]	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	