

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

Pump data

Solids passage 50mm
 Discharge/ Suction diameter 50mm/ 50 mm
 Impeller type: Vortex
 Impeller diameter 110 - 80 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 44 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.91
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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

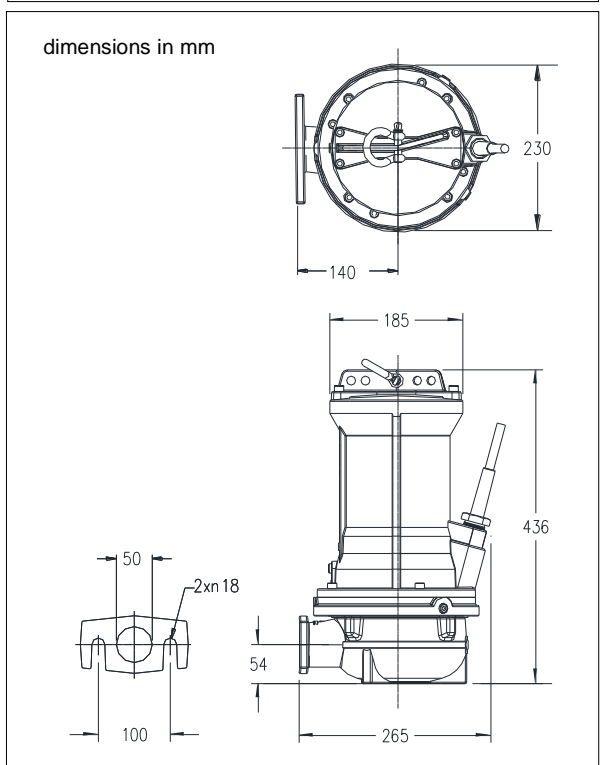
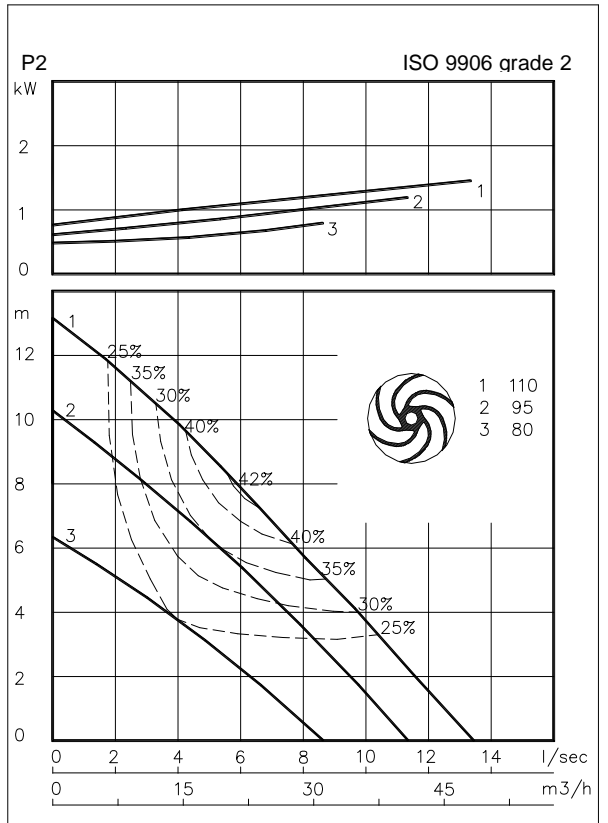
Header coupling BWK 065 of BWK 080 

Guide bar coupling OWK 050 

Freestanding including support 50 mm or 75 mm hose connection or G 2" 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

voltage	current	Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version		
		direct start		direct start		direct start		
230	5.8	4G1.5		7G1.5		7G1.5		
400	3.3	4G1.5		7G1.5		7G1.5		
500	2.7	4G1.5		7G1.5		7G1.5		
starting current DOL start : 4.8 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 50 mm
 Impeller type: Vortex
 Impeller diameter 125 - 95 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 45 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 2.8 kW
 Nominal speed 2830 rpm
 Motor efficiency 79 %
 Power factor (cos phi) 0.89
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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

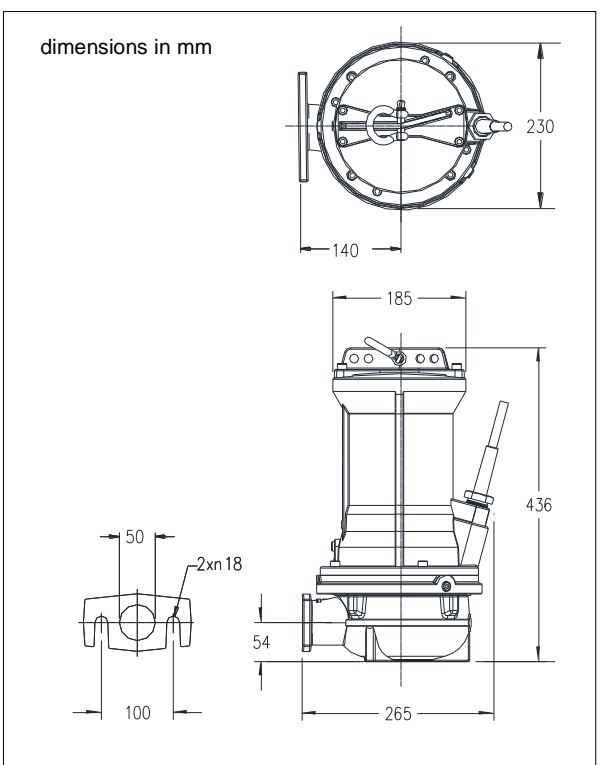
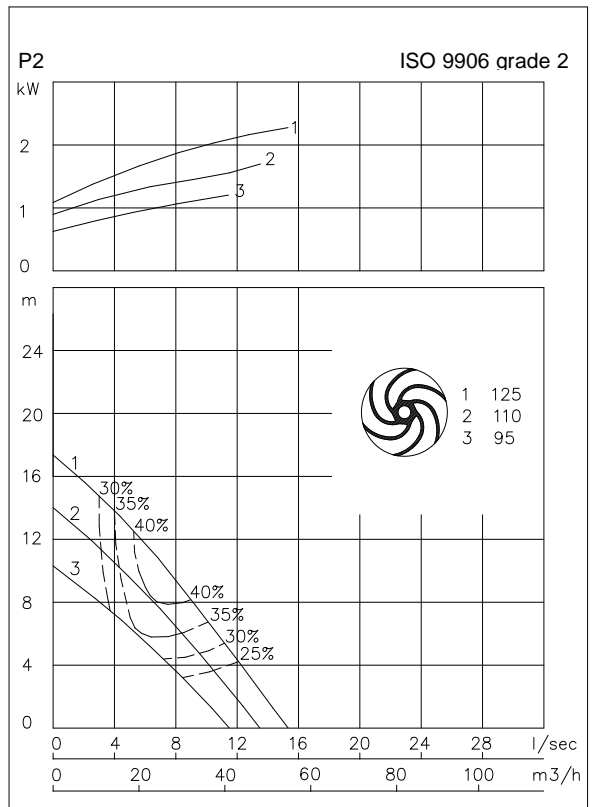
Header coupling BWK 065 of BWK 080 

Guide bar coupling OWK 050 

Freestanding including support (VRS) 50 mm or 75 mm hose connection or G 2" 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

voltage	current	Electrical cable size [mm2]		motor protection and/or water detector	flameproof version
		direct start			
[V]*	[A]	direct start		direct start	direct start
230	7.9	4G1.5		7G1.5	7G1.5
400	4.5	4G1.5		7G1.5	7G1.5
500	3.6	4G1.5		7G1.5	7G1.5
starting current DOL start : 5.3 x rated current					
					* other voltages on request

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 50 mm
 Impeller type: Vortex
 Impeller diameter 138 - 110 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 45 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.6 kW
 Rated electrical power 3.5 kW
 Nominal speed 2900 rpm
 Motor efficiency 74 %
 Power factor (cos phi) 0.91
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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 065 of BWK 080



Guide bar coupling OWK 050

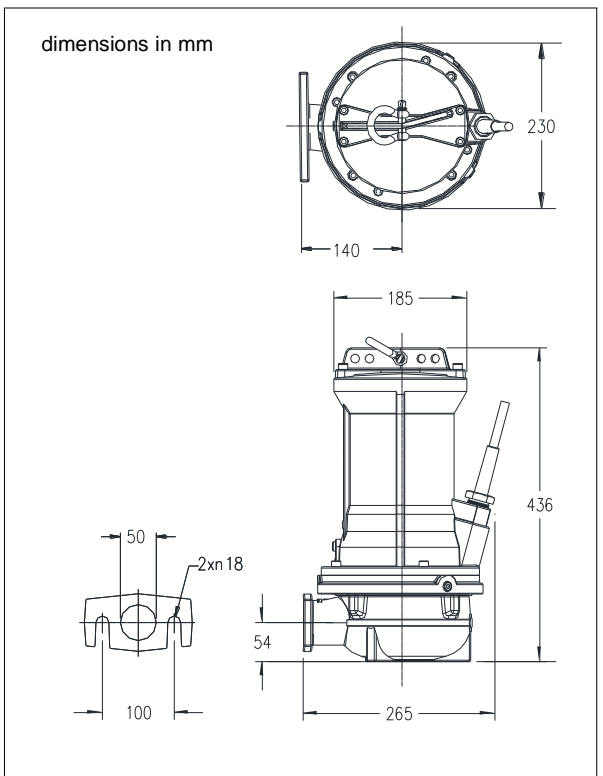
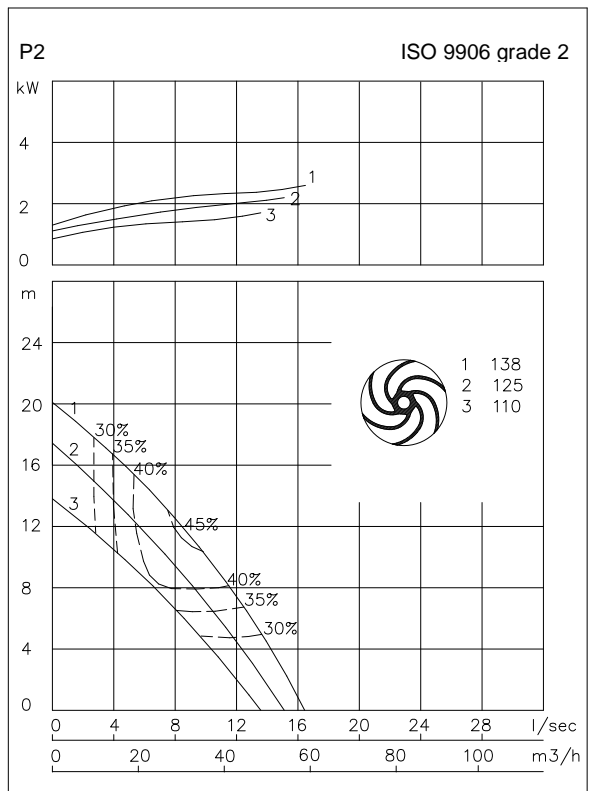


Freestanding including support (VRS) 50 mm or 75 mm hose connection or G 2" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	9.8	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	5.6	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	4.5	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.6 x rated current								
starting current YD start : 1.5 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 50 mm
 Impeller type: Vortex
 Impeller diameter 150 - 125 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 48 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 4.0 kW
 Rated electrical power 5.0 kW
 Nominal speed 2840 rpm
 Motor efficiency 80 %
 Power factor (cos phi) 0.85
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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

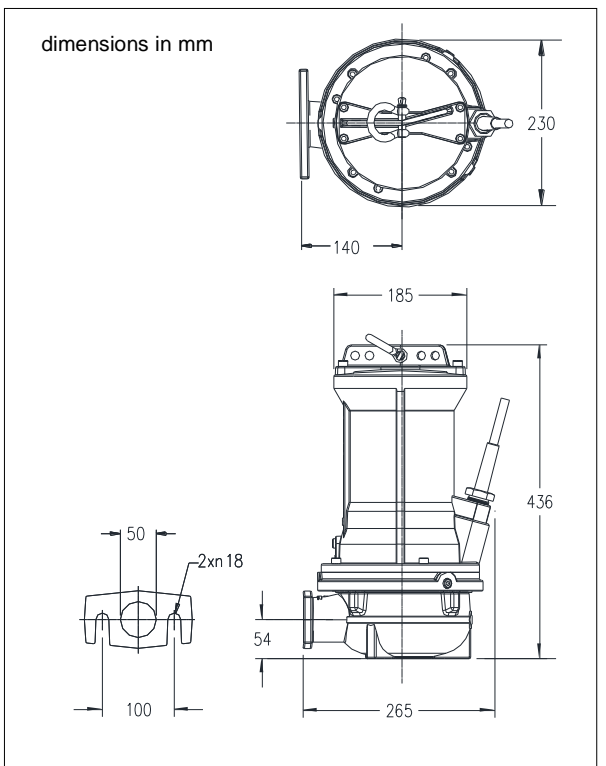
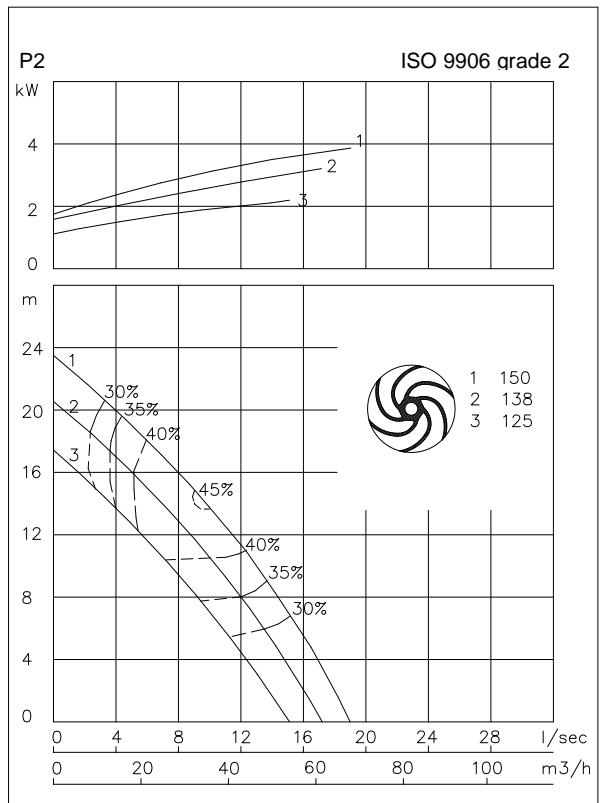
Header coupling BWK 065 of BWK 080 

Guide bar coupling OWK 050 

Freestanding including support (VRS) 50 mm or 75 mm hose connection or G 2" 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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	14.8	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	8.5	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	6.8	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.2 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 50 mm
 Impeller type: Vortex
 Impeller diameter 160 - 110 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 41 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 0.65 kW
 Rated electrical power 0.94 kW
 Nominal speed 1340 rpm
 Motor efficiency 69 %
 Power factor (cos phi) 0.79
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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 065 of BWK 080



Guide bar coupling OWK 050

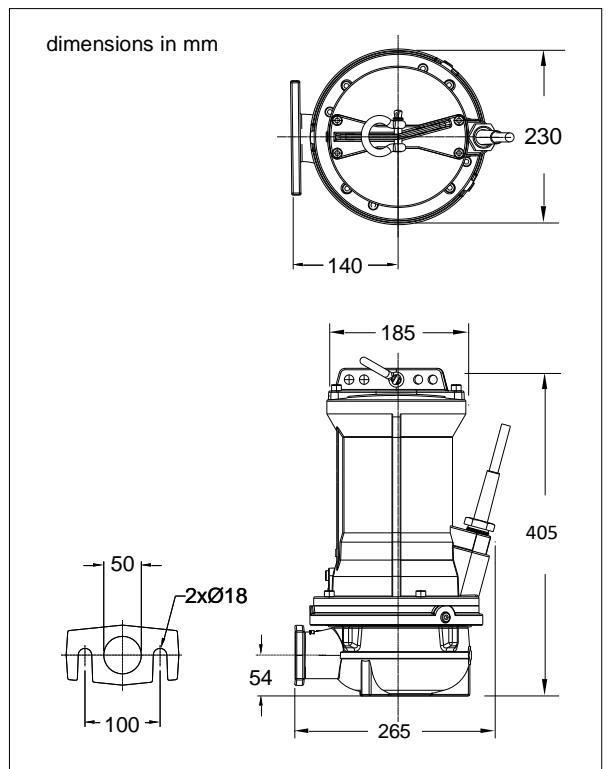
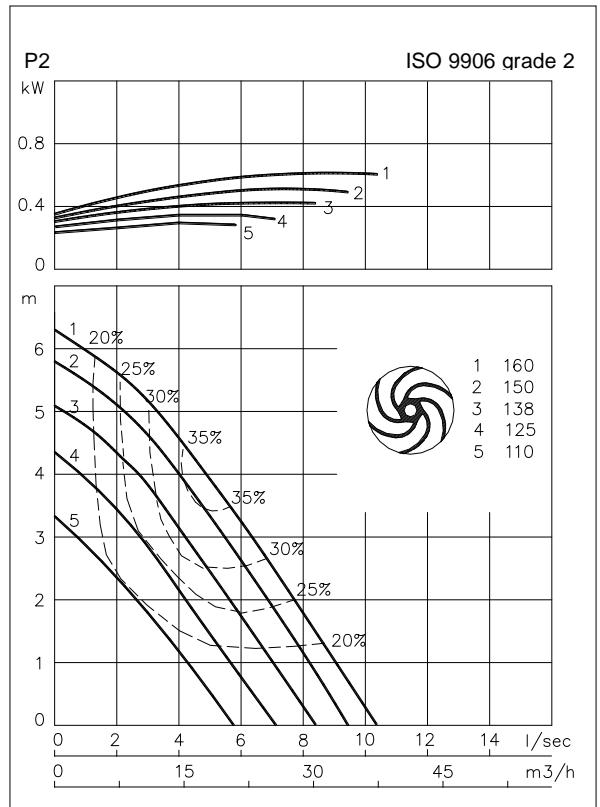


Freestanding including support (VRS) 50 mm or 75 mm hose connection or G 2" threaded connection



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

voltage	current	Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version	
		direct start		direct start		direct start	
230	3.0	4G1.5		7G1.5		7G1.5	
400	1.7	4G1.5		7G1.5		7G1.5	
500	1.4	4G1.5		7G1.5		7G1.5	
starting current DOL start : 3.7 x rated current							
* other voltages on request							

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 150 - 110 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 45 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 1420 rpm
 Motor efficiency 71 %
 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 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)
 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 065 or 080



Guide bar coupling OWK 065 or 080

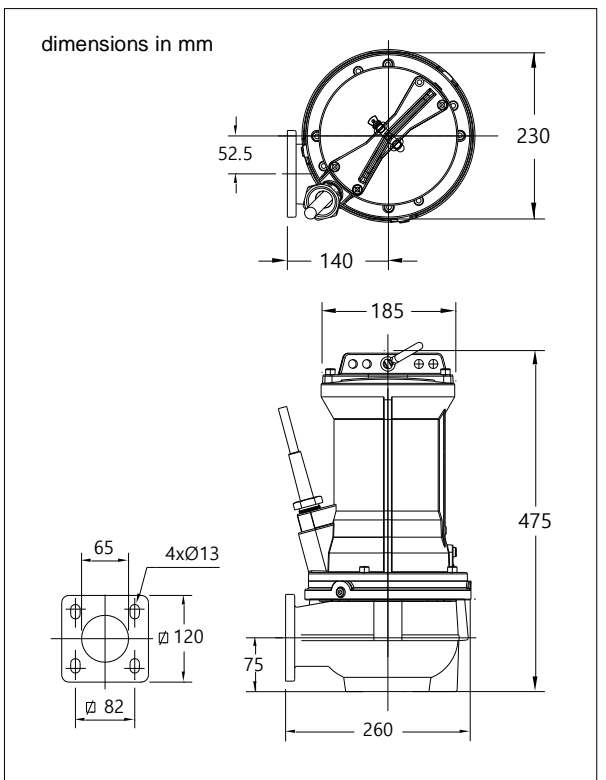
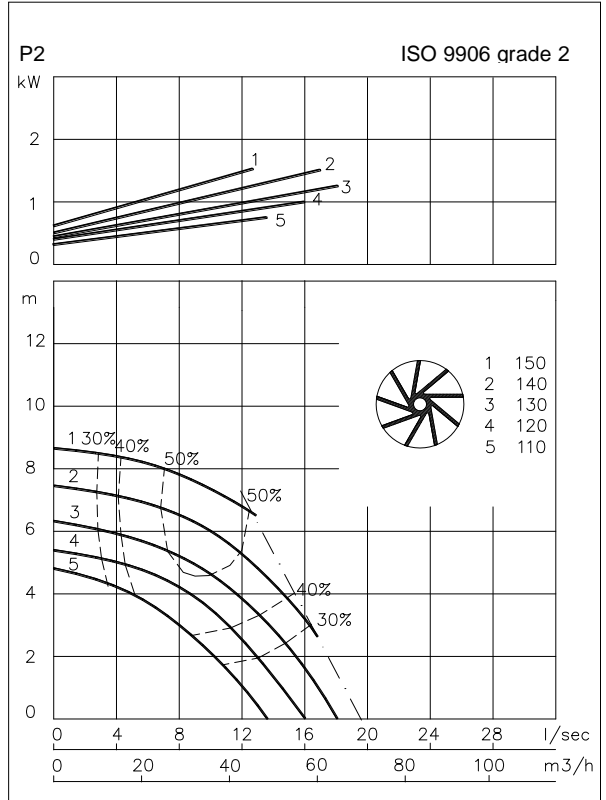


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version	
		direct start		direct start		direct start	
230	6.3	4G1.5		7G1.5		7G1.5	
400	3.6	4G1.5		7G1.5		7G1.5	
500	2.9	4G1.5		7G1.5		7G1.5	
starting current DOL start : 4.8 x rated current							
* other voltages on request							

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 160 - 130 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 45 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 3.0 kW
 Nominal speed 1375 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.89
 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)
 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 065 or 080



Guide bar coupling OWK 065 or 080

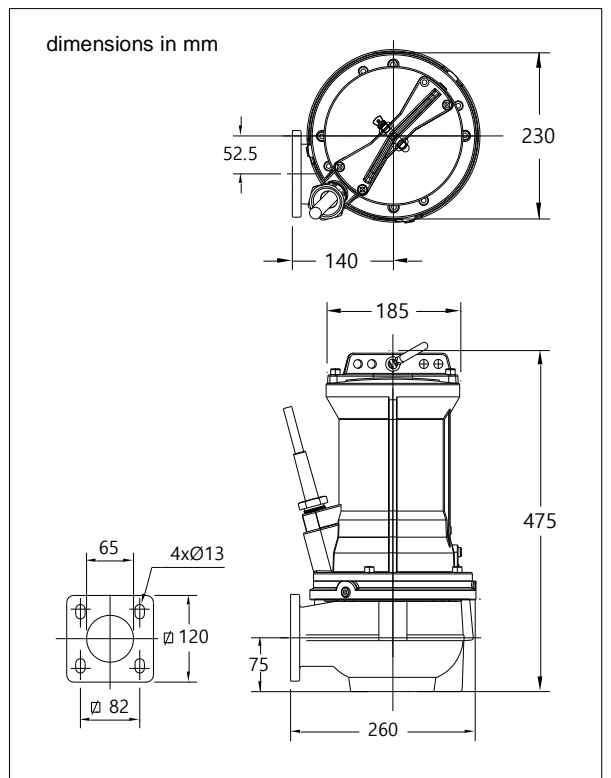
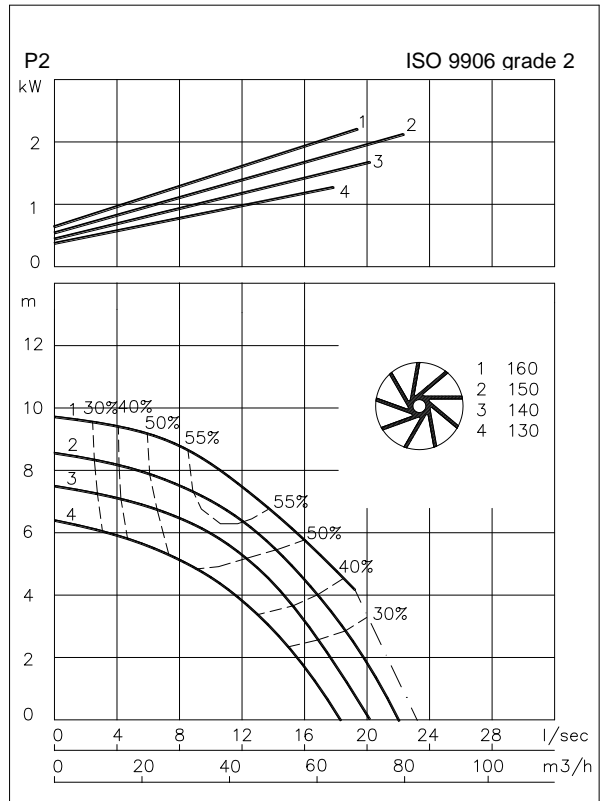


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

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	8.7	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	5.0	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	4.0	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 3.4 x rated current							
starting current YD start : 1.1 x rated current							
							* other voltages on request

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 110 - 95 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 44 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.91
 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 Cast iron GG 25 (EN-GJL-250)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolts Alt: AISI 316
 AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 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 065 or 080



Guide bar coupling OWK 065 or 080

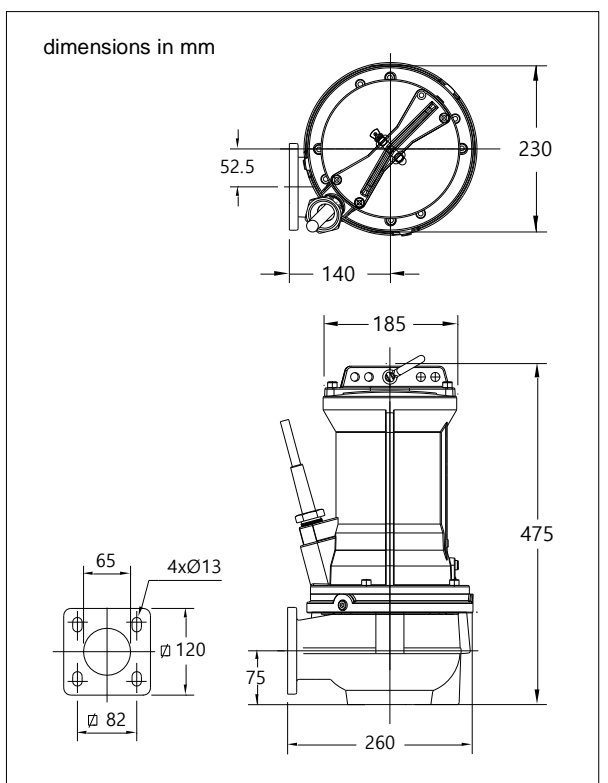
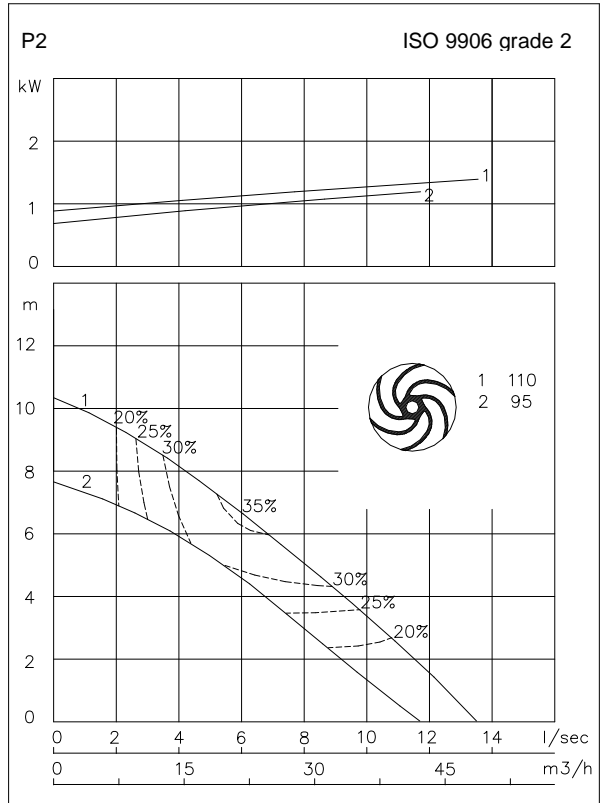


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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]		motor protection and/or water detector		flameproof version	
voltage	current						
[V]*	[A]	direct start		direct start		direct start	
230	5.8	4G1.5		7G1.5		7G1.5	
400	3.3	4G1.5		7G1.5		7G1.5	
500	2.7	4G1.5		7G1.5		7G1.5	
starting current DOL start : 4.8 x rated current							
* other voltages on request							

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 125 - 95 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 45 kg


Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 2.8 kW
 Nominal speed 2830 rpm
 Motor efficiency 79 %
 Power factor (cos phi) 0.89
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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

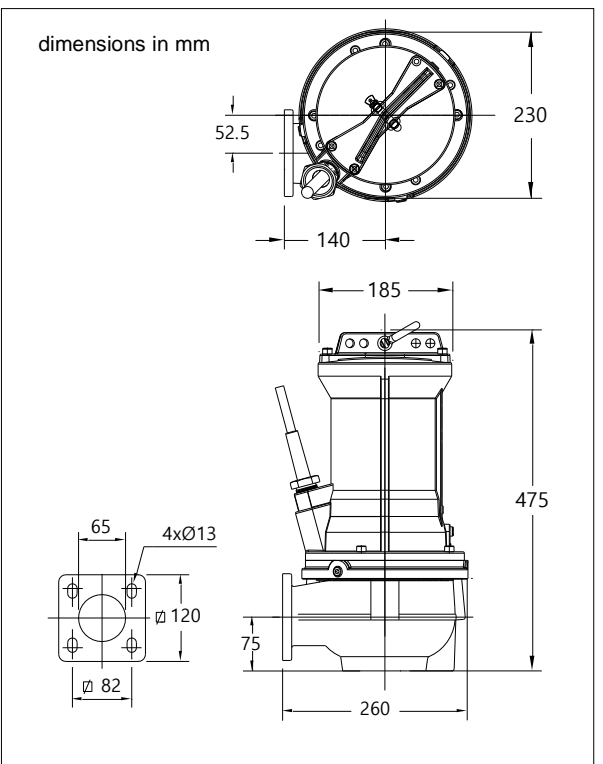
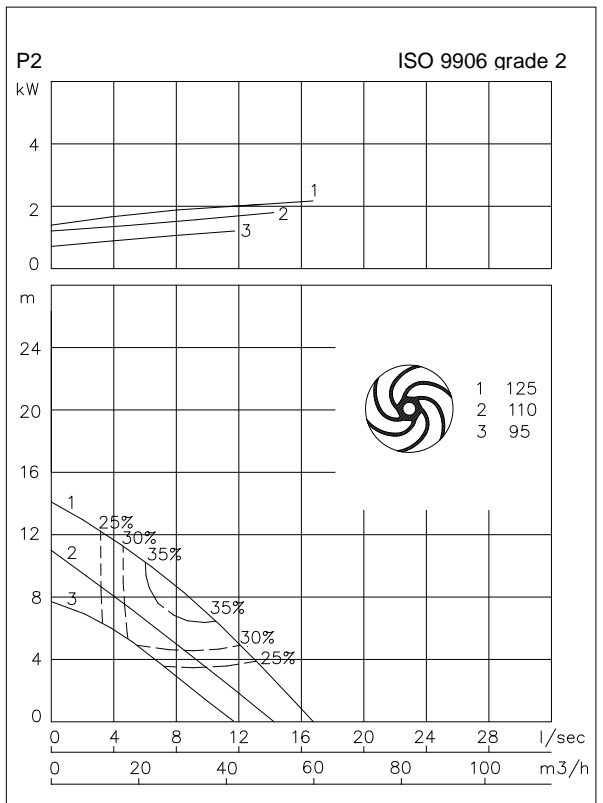
Header coupling BWK 065 or 080 

Guide bar coupling OWK 065 or 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

voltage	current	Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version	
		direct start		direct start		direct start	
230	7.9	4G1.5		7G1.5		7G1.5	
400	4.5	4G1.5		7G1.5		7G1.5	
500	3.6	4G1.5		7G1.5		7G1.5	
starting current DOL start : 5.3 x rated current							
* other voltages on request							

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 138 - 110 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 45 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.6 kW
 Rated electrical power 3.5 kW
 Nominal speed 2800 rpm
 Motor efficiency 74 %
 Power factor (cos phi) 0.91
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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 065 or 080



Guide bar coupling OWK 065 or 080



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

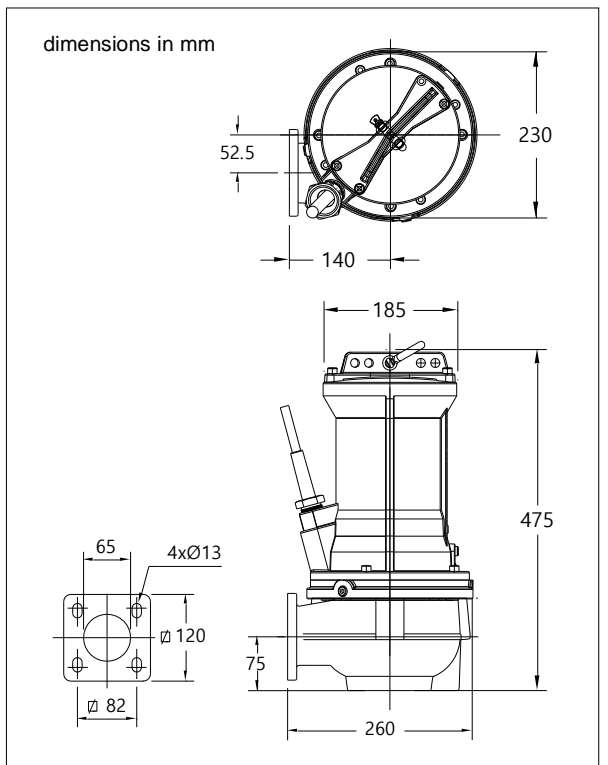
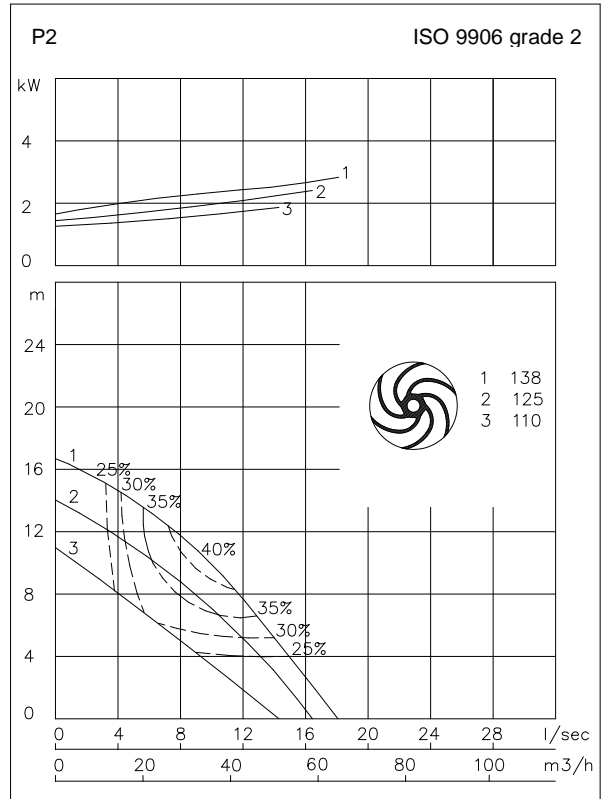


Optional

- Flameproof version, to class: 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]		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	9.7	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	5.6	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	4.5	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 4.6 x rated current							
starting current YD start : 1.5 x rated current							
							* other voltages on request



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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 150 - 125 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 48 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 4.0 kW
 Rated electrical power 5.0 kW
 Nominal speed 2840 rpm
 Motor efficiency 80 %
 Power factor (cos phi) 0.85
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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

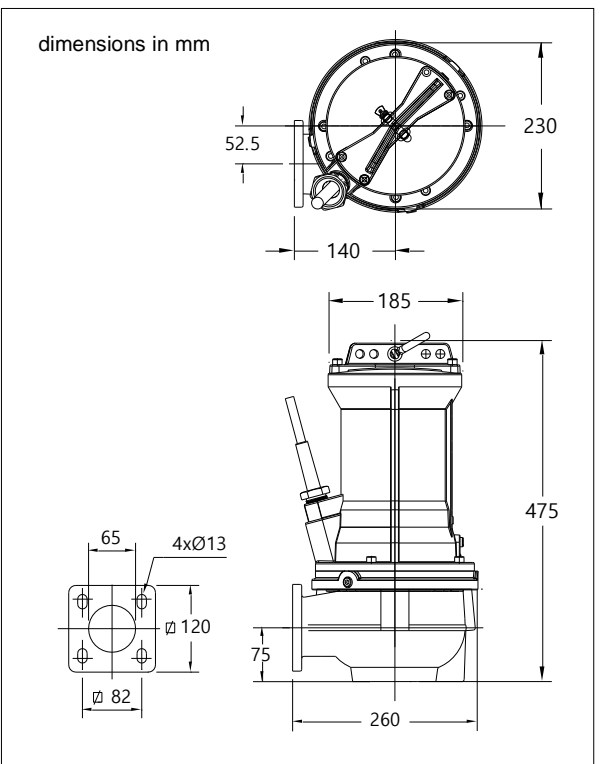
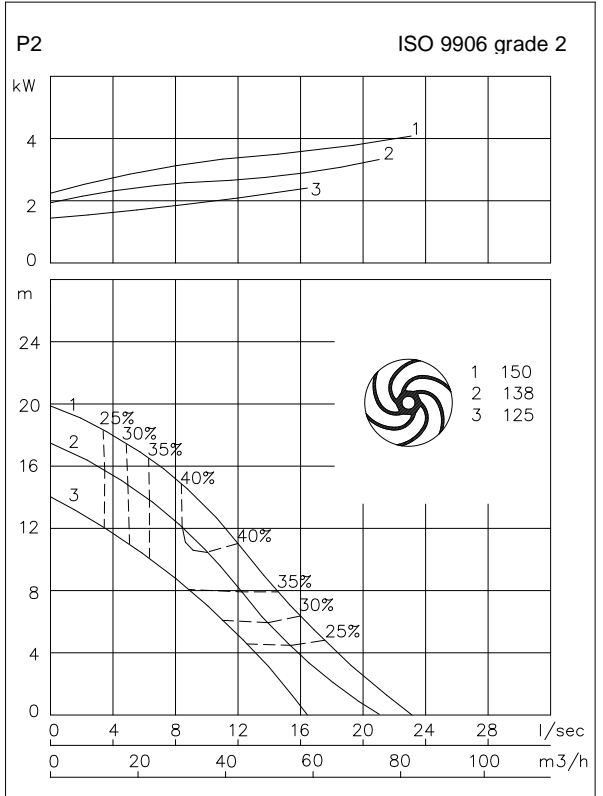
Header coupling BWK 065 or 080 

Guide bar coupling OWK 065 or 080 

Freestanding Including support (VRS) 75 mm hose connection or 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

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	14.8	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	8.5	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	6.8	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 6.2 x rated current							
starting current YD start : 2.1 x rated current							

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 65 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 160 - 138 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 41 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 0.65 kW
 Rated electrical power 0.94 kW
 Nominal speed 1340 rpm
 Motor efficiency 69 %
 Power factor (cos phi) 0.79
 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 Cast iron GG 25 (EN-GJL-250)
 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)
 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 065 or 080



Guide bar coupling OWK 065 or 080

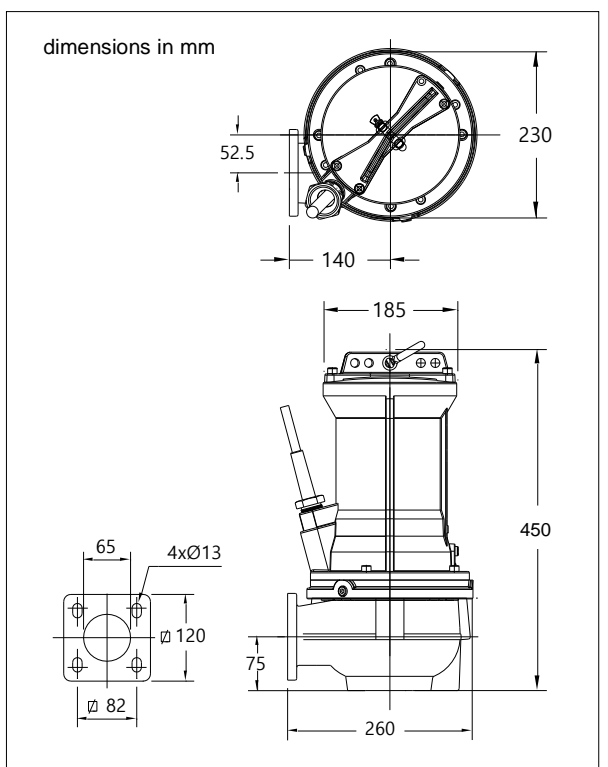
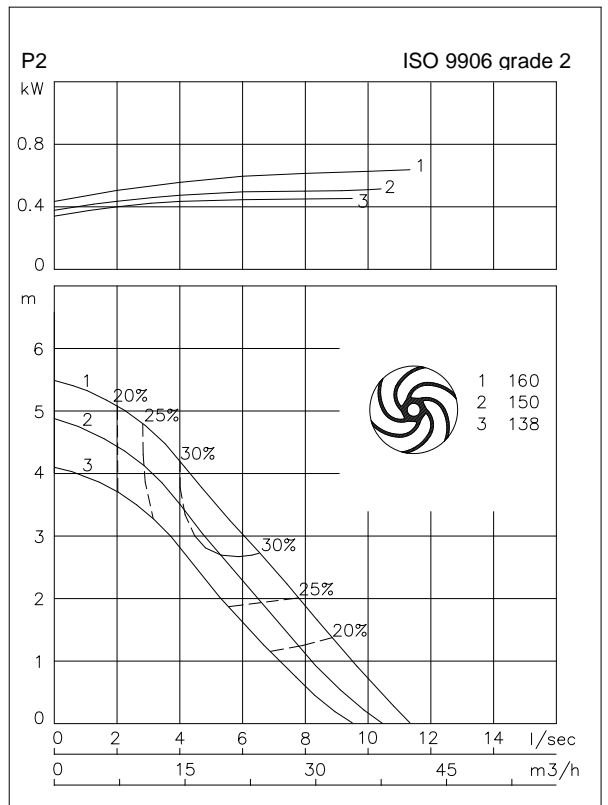


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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]		motor protection and/or water detector		flameproof version	
voltage	current						
[V]*	[A]	direct start		direct start		direct start	
230	3.0	4G1.5		7G1.5		7G1.5	
400	1.7	4G1.5		7G1.5		7G1.5	
500	1.4	4G1.5		7G1.5		7G1.5	
starting current DOL start : 3.7 x rated current							
* other voltages on request							

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 175 - 145 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 62 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 1420 rpm
 Motor efficiency 71 %
 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 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)
 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 065 or 080

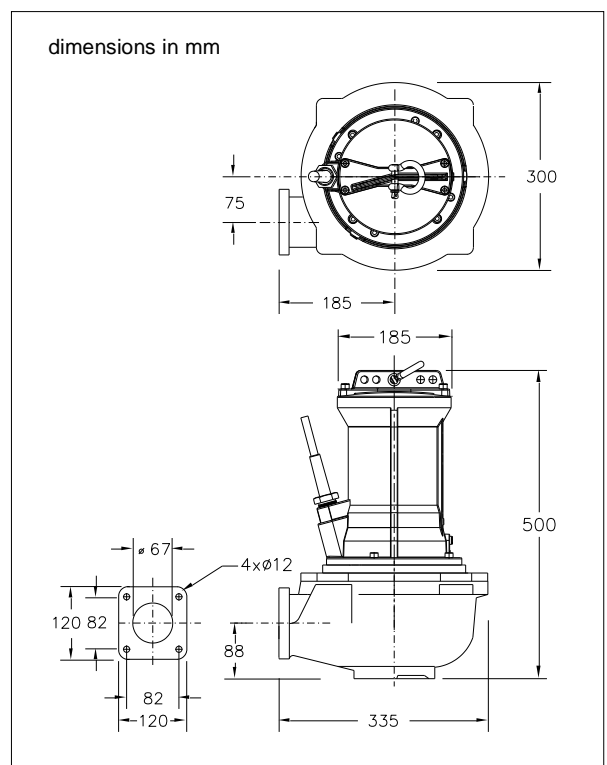
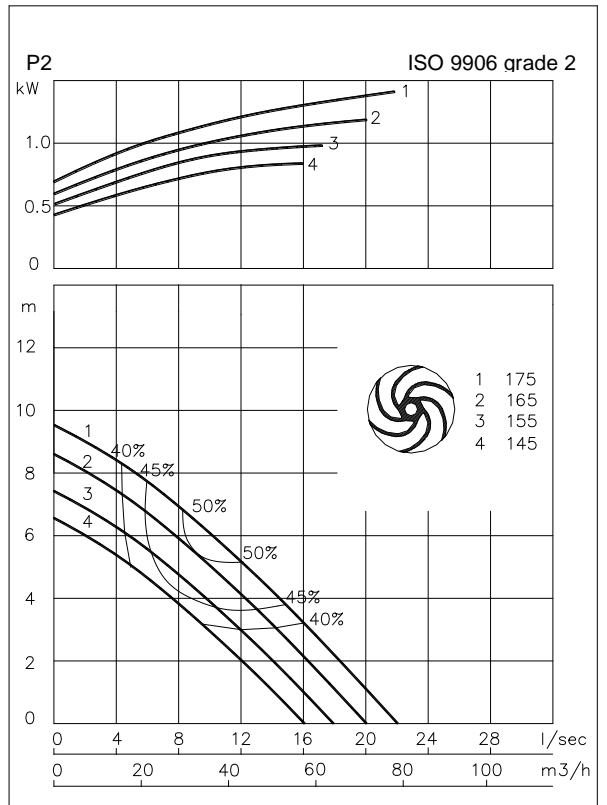


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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]		motor protection and/or water detector		flameproof version	
voltage	current						
[V]*	[A]	direct start		direct start		direct start	
230	6.3	4G2.5		7G1.5		7G1.5	
400	3.6	4G2.5		7G1.5		7G1.5	
500	2.9	4G2.5		7G1.5		7G1.5	
starting current DOL start : 4.8 x rated current							
* other voltages on request							

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 195 - 155 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 62 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 3.0 kW
 Nominal speed 1375 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.89
 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)
 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

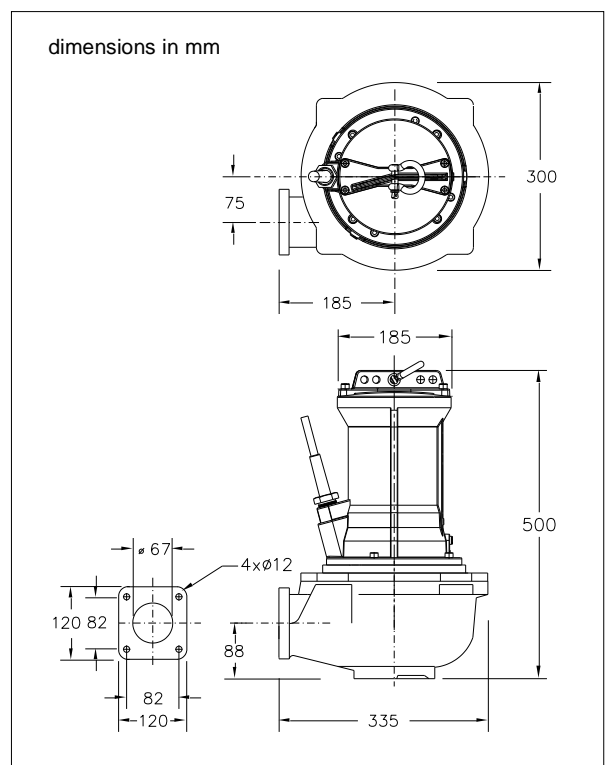
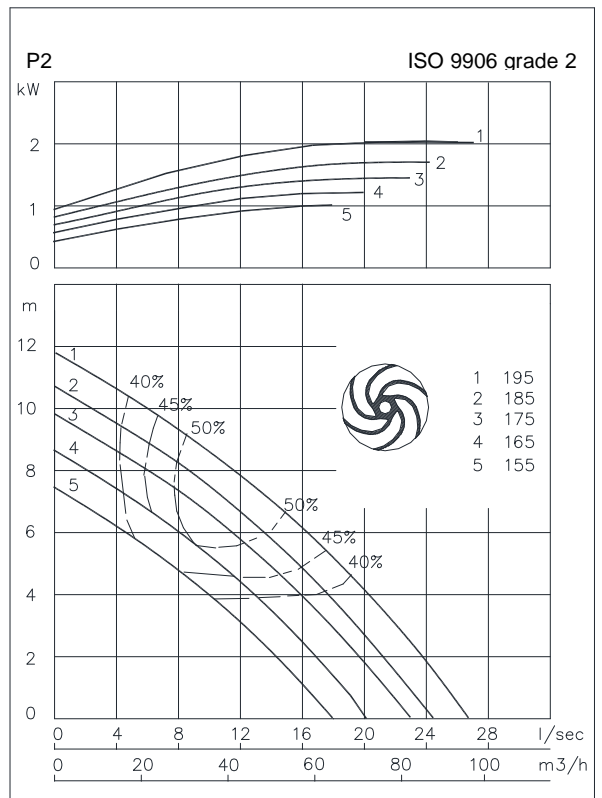
Header coupling BWK 080 

Guide bar coupling OWK 065 or 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

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	8.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	5.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	4.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 3.4 x rated current							
starting current YD start : 1.1 x rated current				* other voltages on request			

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 210 - 190 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 65 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 3.5 kW
 Rated electrical power 4.5 kW
 Nominal speed 1385 rpm
 Motor efficiency 78 %
 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 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)
 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

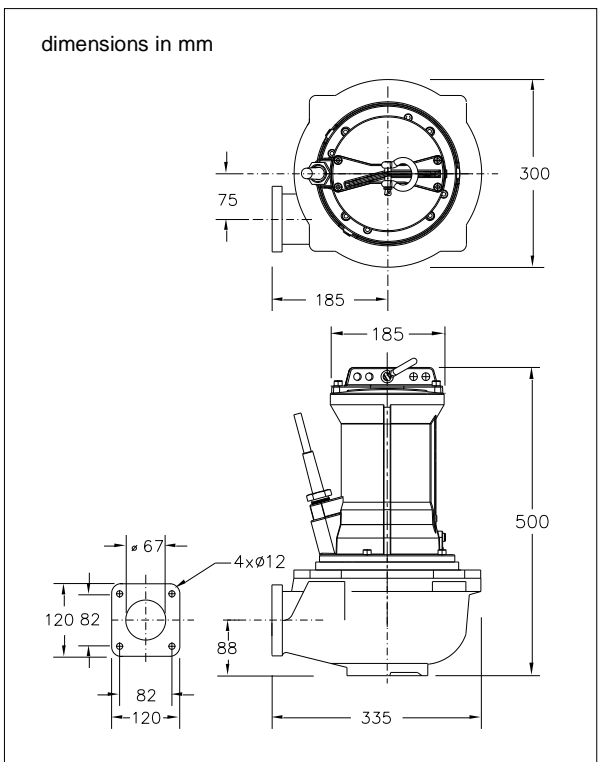
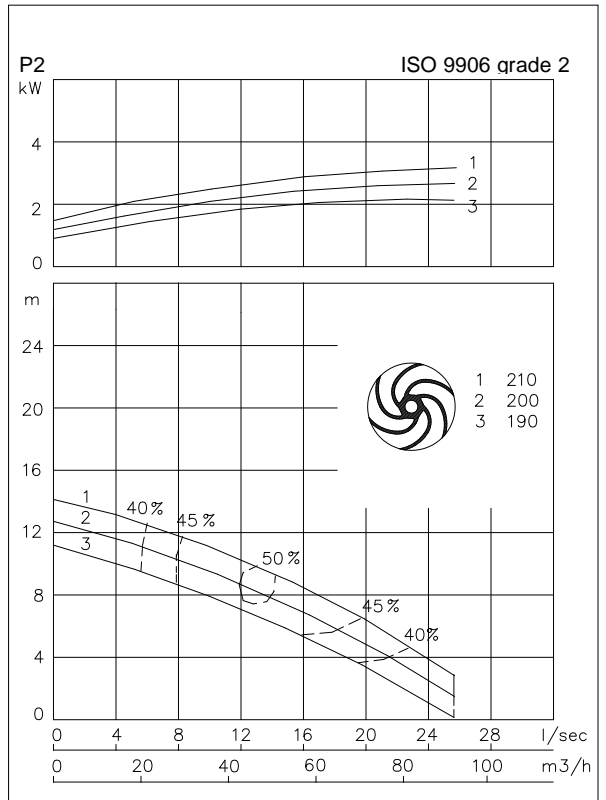
Header coupling BWK 080 

Guide bar coupling OWK 065 or 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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	13.4	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	7.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	6.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.3 x rated current								
starting current YD start : 1.4 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 150 - 120 mm
 Recommended min. flow 3.5 l/sec (13 m3/h)
 Weight 54 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 1420 rpm
 Motor efficiency 71 %
 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 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)
 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

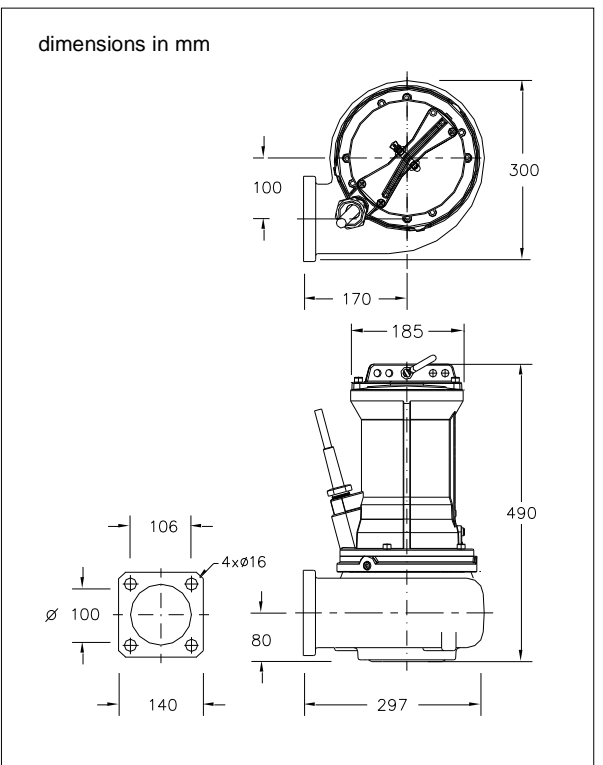
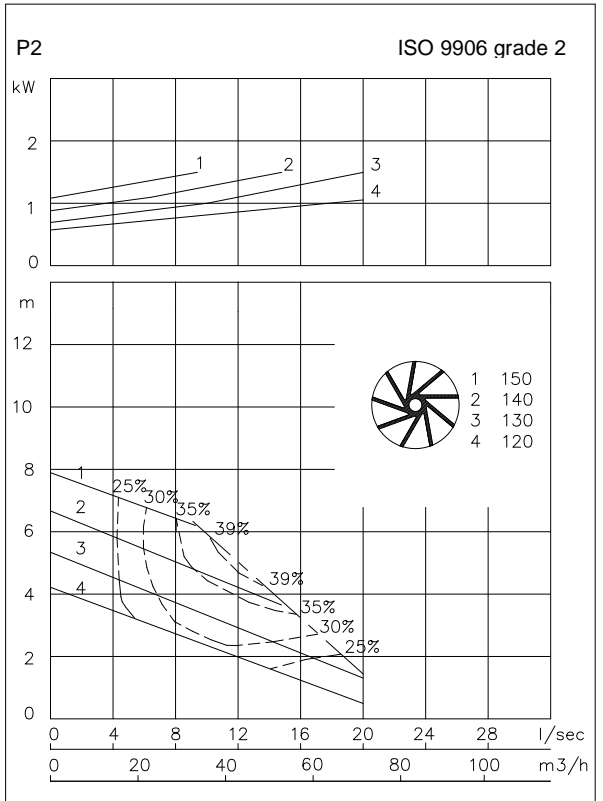
Header coupling BWK 080 or BWK 100 

Guide bar coupling OWK 100 

Freestanding Including support (VRS) 100mm hose connection or 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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start		direct start		direct start		
230	6.3	4G1.5		7G1.5		7G1.5		
400	3.6	4G1.5		7G1.5		7G1.5		
500	2.9	4G1.5		7G1.5		7G1.5		
starting current DOL start : 4.8 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 170 - 130 mm
 Recommended min. flow 3.5 l/sec (13 m3/h)
 Weight 54 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 3.0 kW
 Nominal speed 1375 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.89
 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)
 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 or BWK 100 

Guide bar coupling OWK 100 

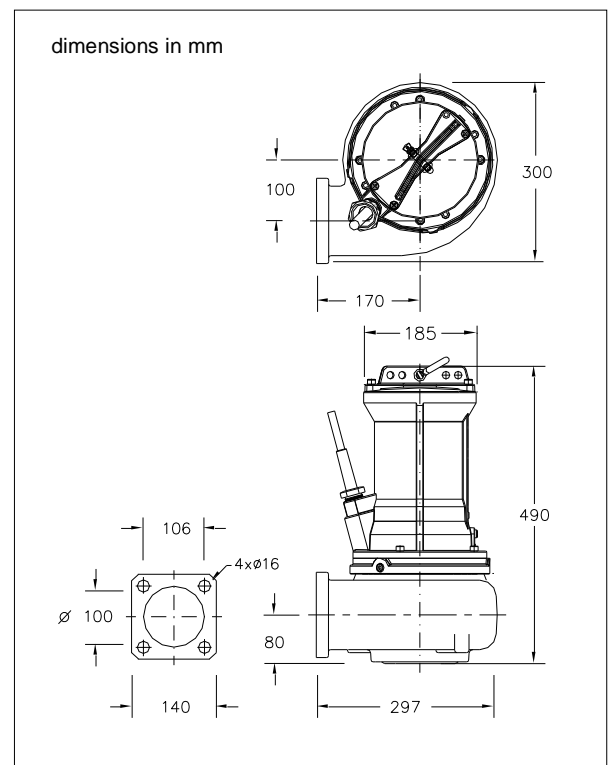
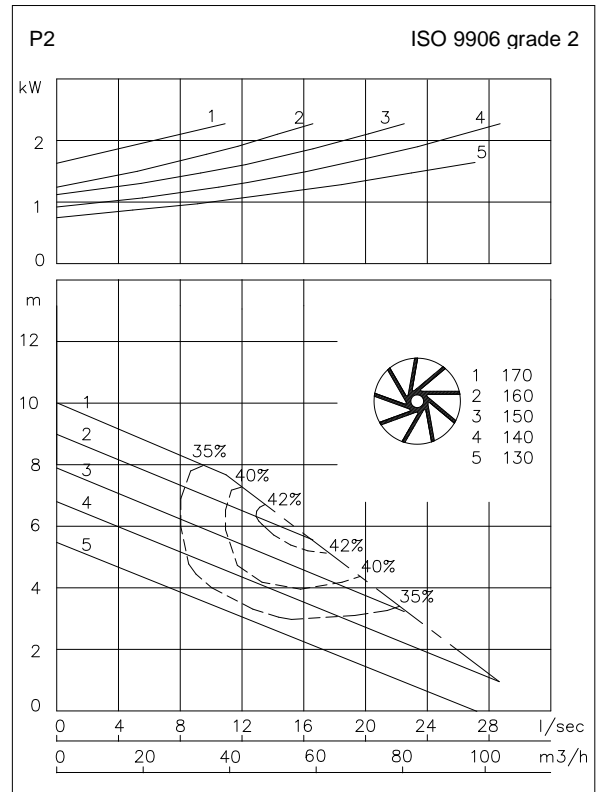
Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection

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

Connections

voltage	current	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version	
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	8.7	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	5.0	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	4.0	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 3.4 x rated current							
starting current YD start : 1.1 x rated current						* other voltages on request	



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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 170 - 140 mm
 Recommended min. flow 3.5 l/sec (13 m3/h)
 Weight 56 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 3.5 kW
 Rated electrical power 4.5 kW
 Nominal speed 1385 rpm
 Motor efficiency 78 %
 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 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
 Bolt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or 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

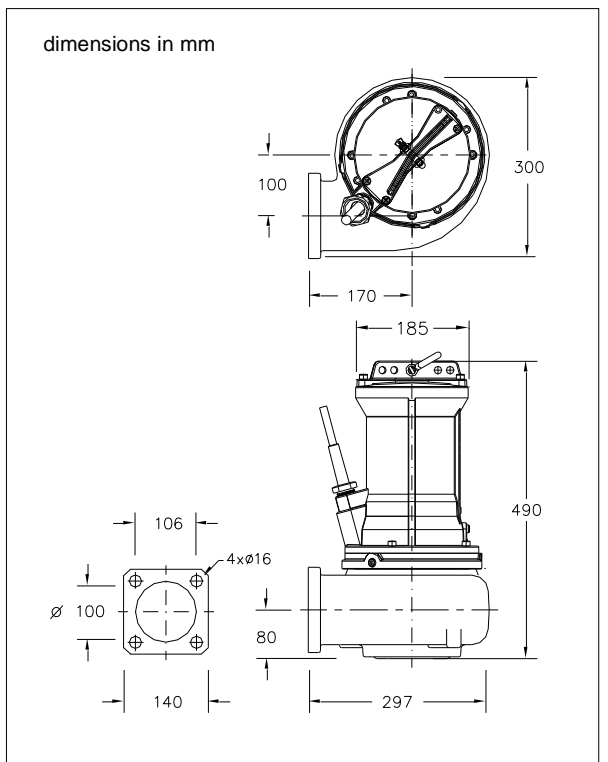
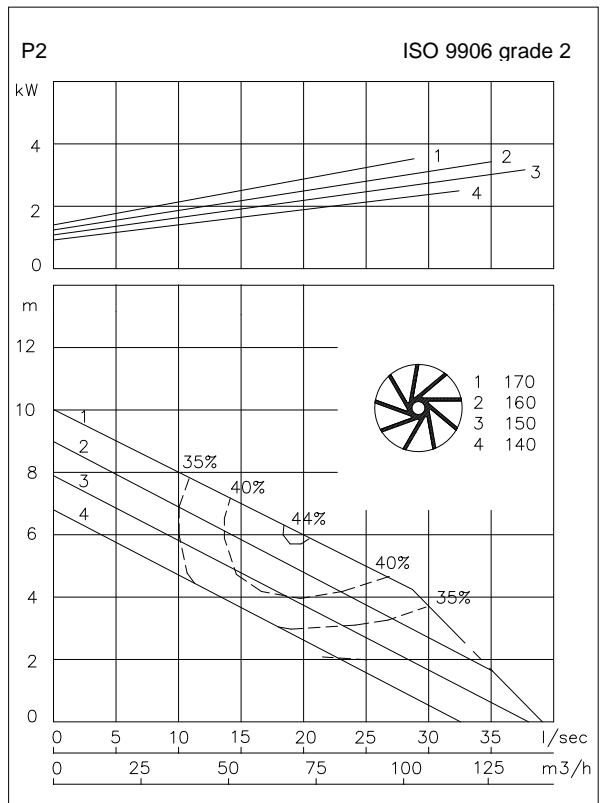
Header coupling BWK 080 or BWK100 

Guide bar coupling OWK 100 

Freestanding Including support (VRS) 100 mm hose connection or 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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	13.4	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	7.7	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	6.2	4G1.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.3 x rated current								
starting current YD start : 1.4 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge / Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 195 - 175 mm
 Recommended min. flow 3.5 l/sec (13 m3/h)
 Weight 65 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 3.5 kW
 Rated electrical power 4.5 kW
 Nominal speed 1385 rpm
 Motor efficiency 78 %
 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 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)
 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

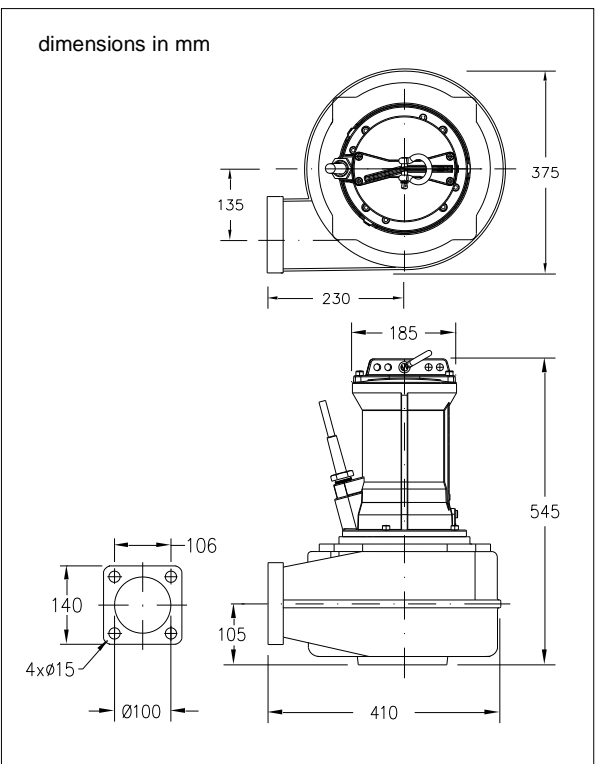
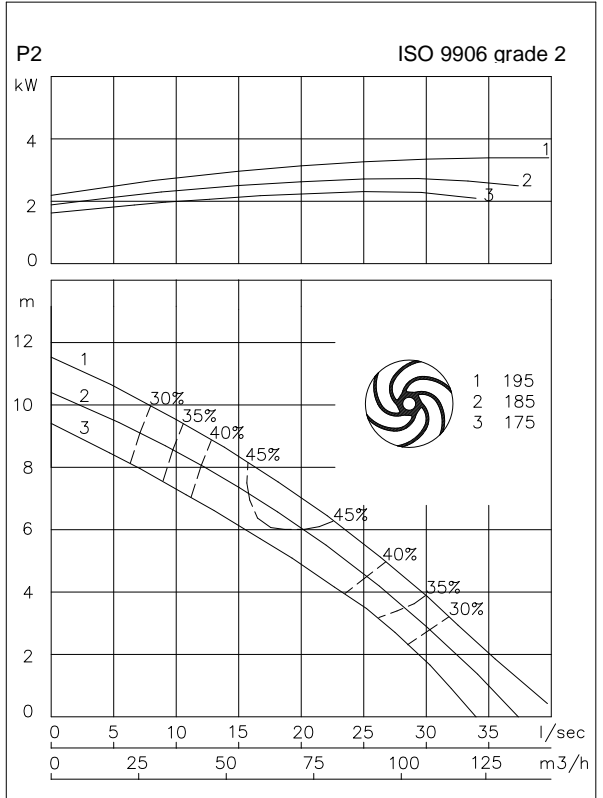
Header coupling BWK 100 

Guide bar coupling OWK 100 

Freestanding 100 mm 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



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	13.4	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	7.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	6.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.3 x rated current								
starting current YD start : 1.4 x rated current								
							* other voltages on request	

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 170 - 150 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 65 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 1.5 kW
 Rated electrical power 2.1 kW
 Nominal speed 1420 rpm
 Motor efficiency 71 %
 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 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
 Bolt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 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



Guide bar coupling OWK 100

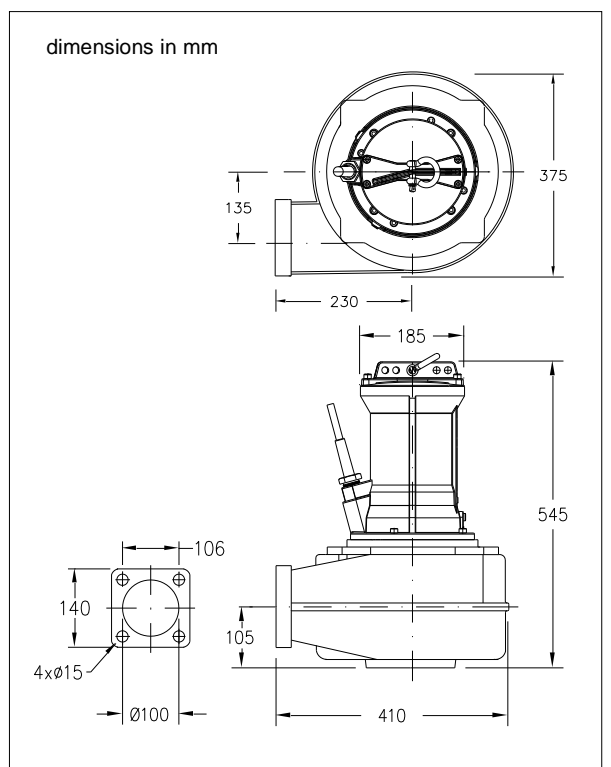
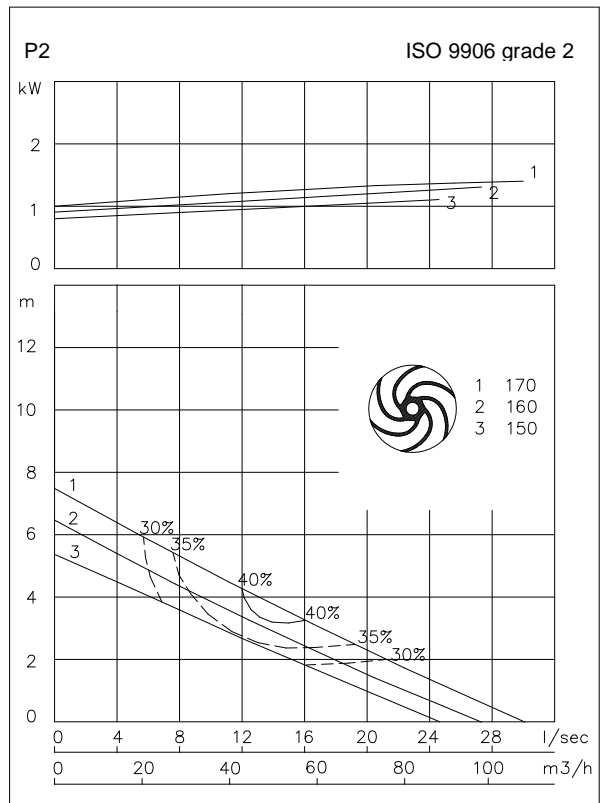


Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start		direct start		direct start		
230	6.3	4G1.5		7G1.5		7G1.5		
400	3.6	4G1.5		7G1.5		7G1.5		
500	2.9	4G1.5		7G1.5		7G1.5		
starting current DOL start : 4.8 x rated current								
							* other voltages on request	

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 195 - 165 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 65 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.2 kW
 Rated electrical power 3.0 kW
 Nominal speed 1375 rpm
 Motor efficiency 71 %
 Power factor (cos phi) 0.89
 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)
 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



Guide bar coupling OWK 100

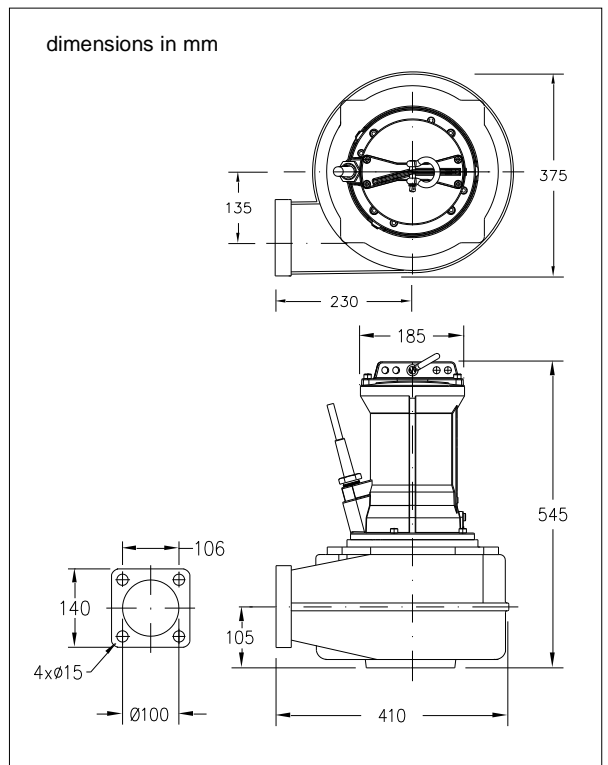
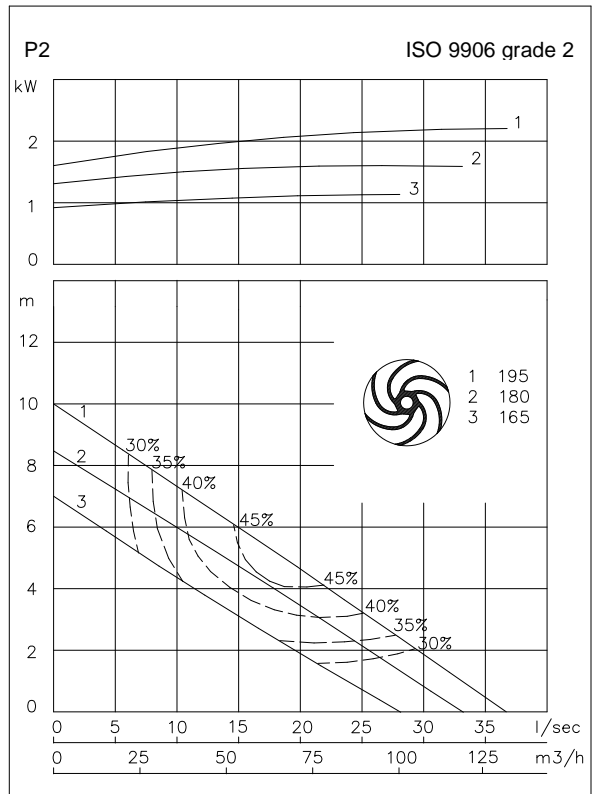


Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	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	8.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	5.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	4.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 3.4 x rated current								
starting current YD start : 1.1 x rated current								
							* other voltages on request	

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 210 - 185 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 67 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 3.5 kW
 Rated electrical power 4.5 kW
 Nominal speed 1385 rpm
 Motor efficiency 78 %
 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 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
 Bolts Alt: AISI 316
 Elastomers AISI 316
 Nitrile (NBR) or 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



Guide bar coupling OWK 100

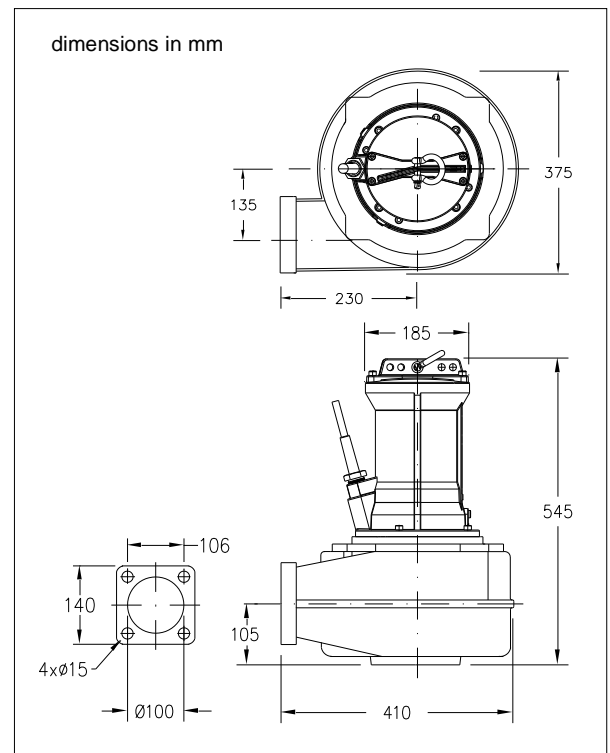
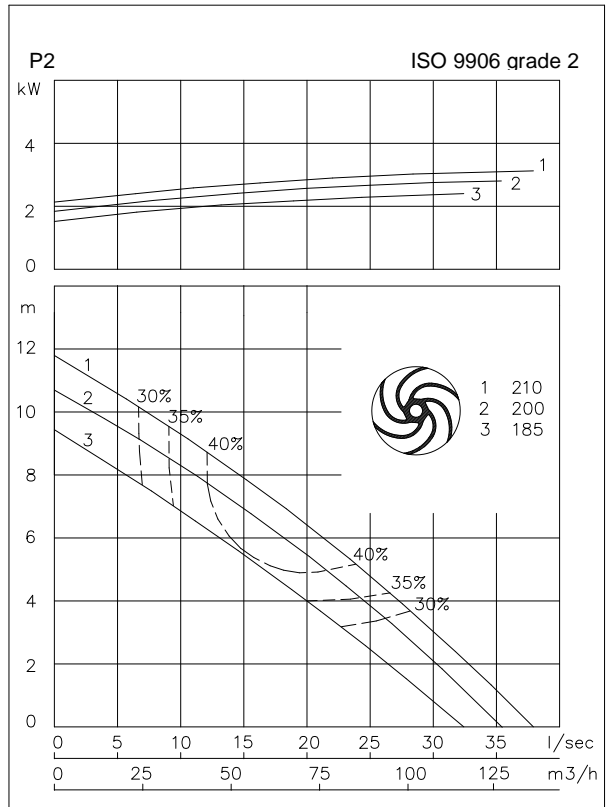


Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection



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



Connections

voltage	current	Electrical cable size [mm²]		motor protection and/or water detector		flameproof version	
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
[V]*	[A]						
230	13.4	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
400	7.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	6.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 4.3 x rated current							
starting current YD start : 1.4 x rated current							

* other voltages on request

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 160 - 140 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 95 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 5.0 kW
 Rated electrical power 6.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 82 %
 Power factor (cos phi) 0.90
 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)
 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 065 or 080

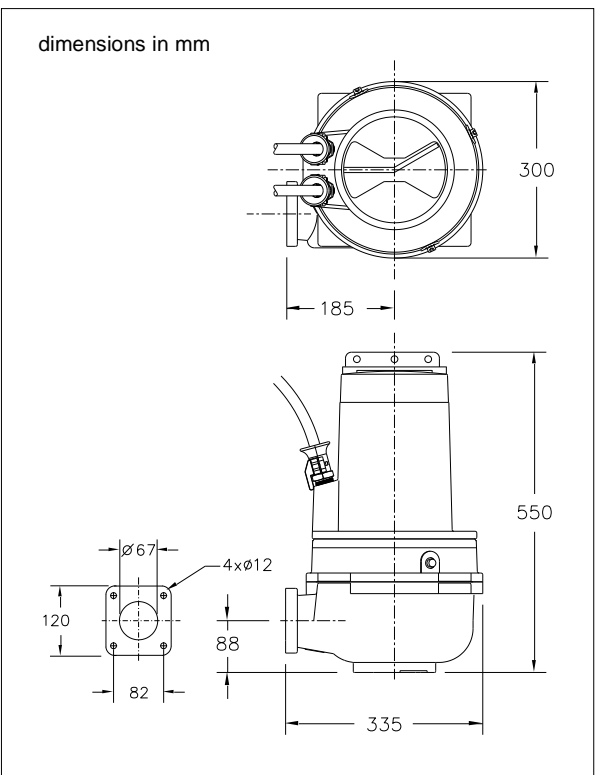
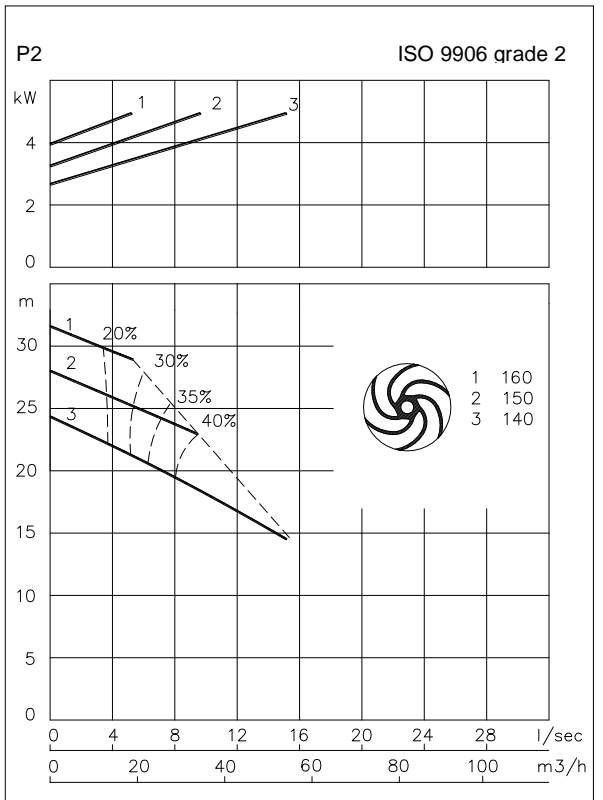


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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
- Thermostiches 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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	17.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	9.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	7.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.2 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 190-150 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 120 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 9.0 kW
 Rated electrical power 10.6 kW
 Nominal speed 2900 rpm
 Motor efficiency 85 %
 Power factor (cos phi) 0.89
 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)
 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

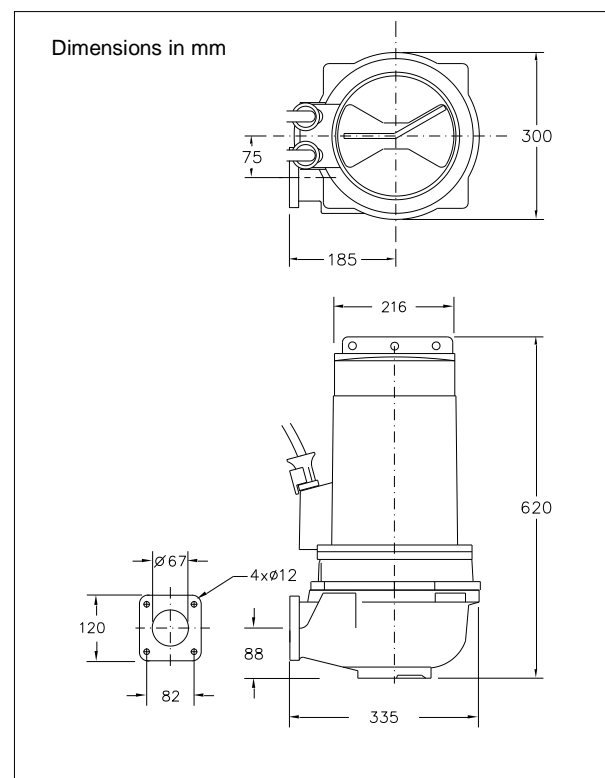
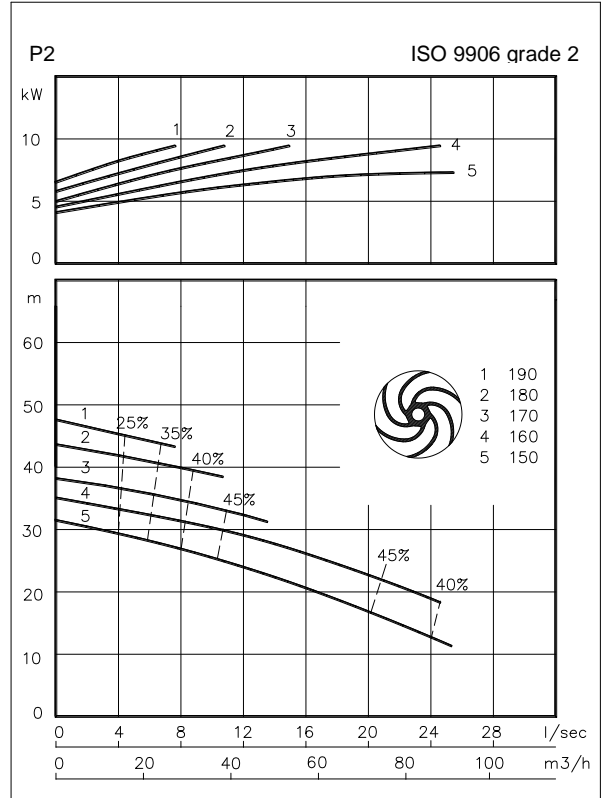


Freestanding 75 mm hose connection or
 Including support (VRS) G 3" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	42.1	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5	
400	24.2	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
500	19.3	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.3 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 210 - 170 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)
 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

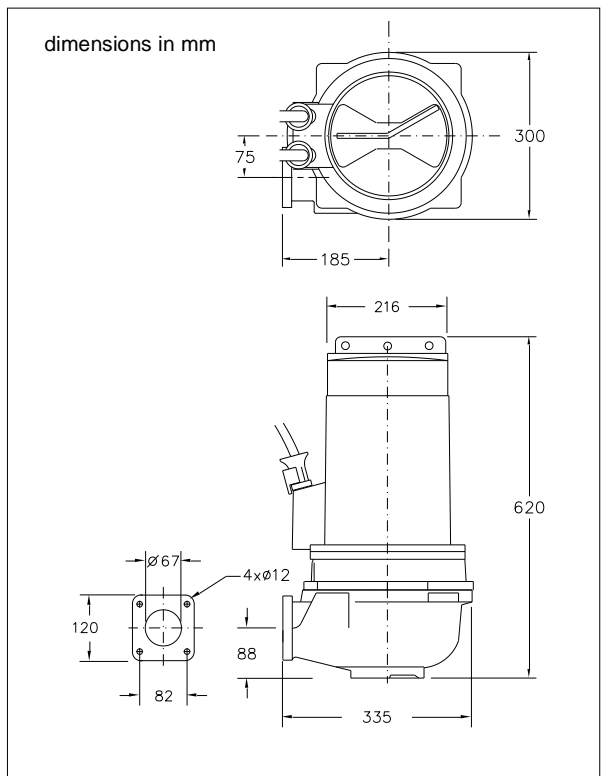
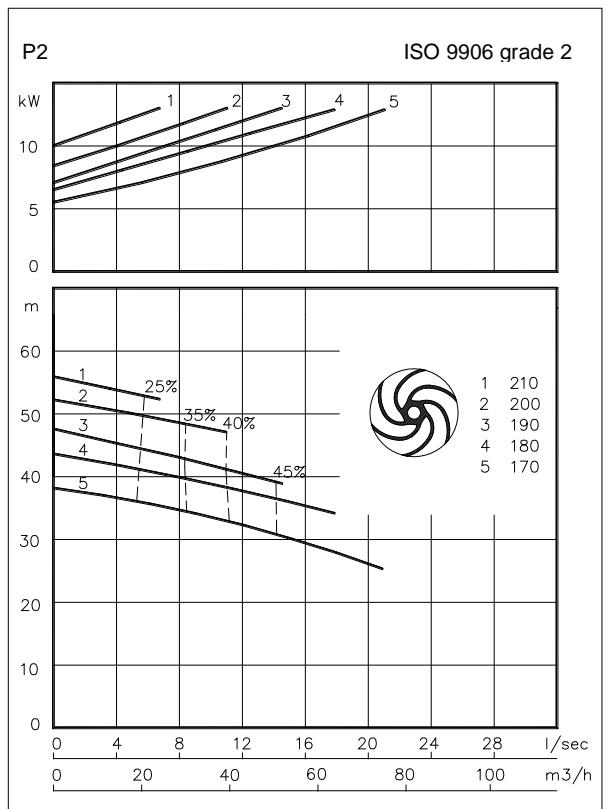


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		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	12G1.5	4G6 + 4G2.5	12G1.5	
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
starting current DOL start : 7.8 x rated current								
starting current YD start : 2.6 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 225 - 205 mm
 Recommended min. flow 2 l/sec (8 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 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)
 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 065 or 080

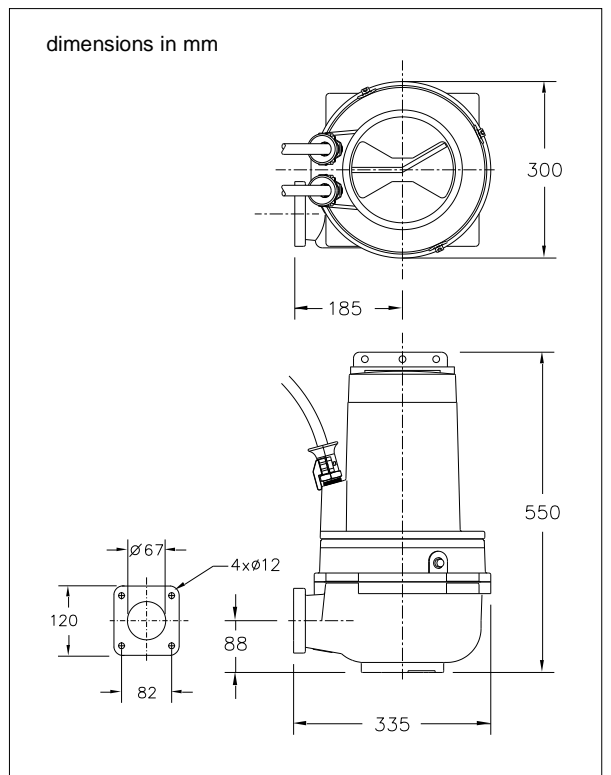
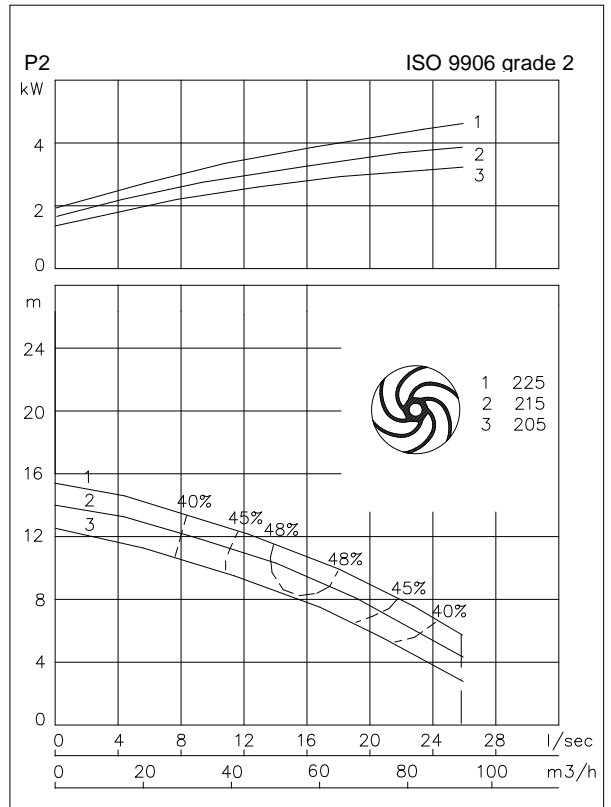


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm2]		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	12G1.5	7G2.5	12G1.5	
400	11.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	9.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 5.0 x rated current								
starting current YD start : 1.7 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 155 - 125 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 95 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 5.0 kW
 Rated electrical power 6.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 82 %
 Power factor (cos phi) 0.90
 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)
 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 065 or 080

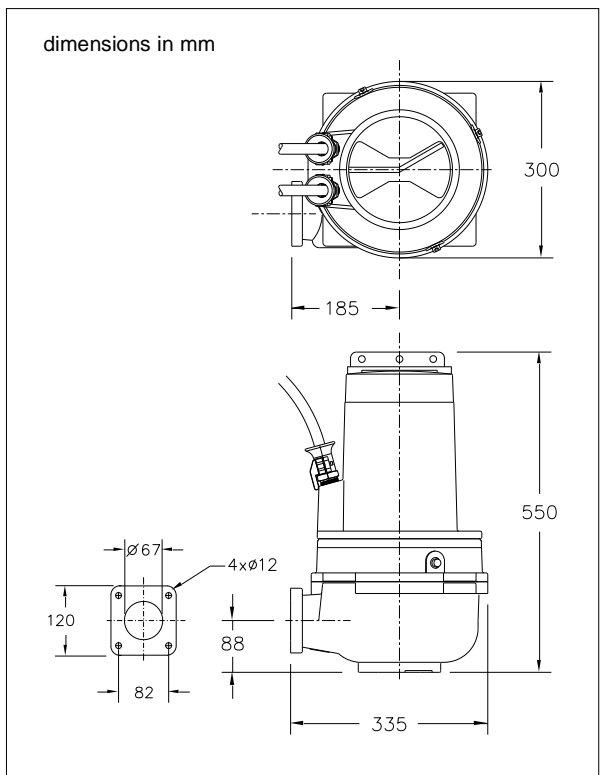
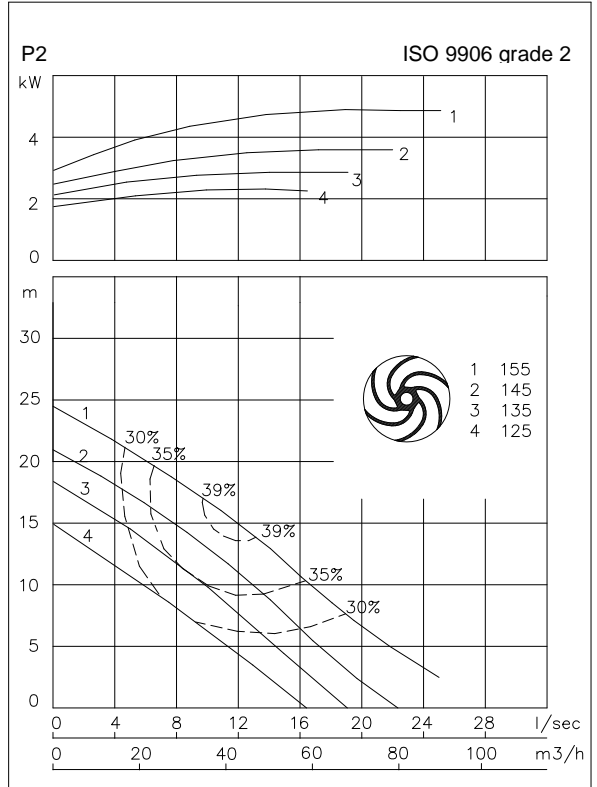


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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
- Thermostiches 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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	17.0	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
400	9.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	7.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.2 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 65 mm
 Discharge/ Suction diameter 67 mm/ 72 mm
 Impeller type: Vortex
 Impeller diameter 170 - 150 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 115 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 9.0 kW
 Rated electrical power 10.6 kW
 Nominal speed 2900 rpm
 Motor efficiency 85 %
 Power factor (cos phi) 0.89
 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)
 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

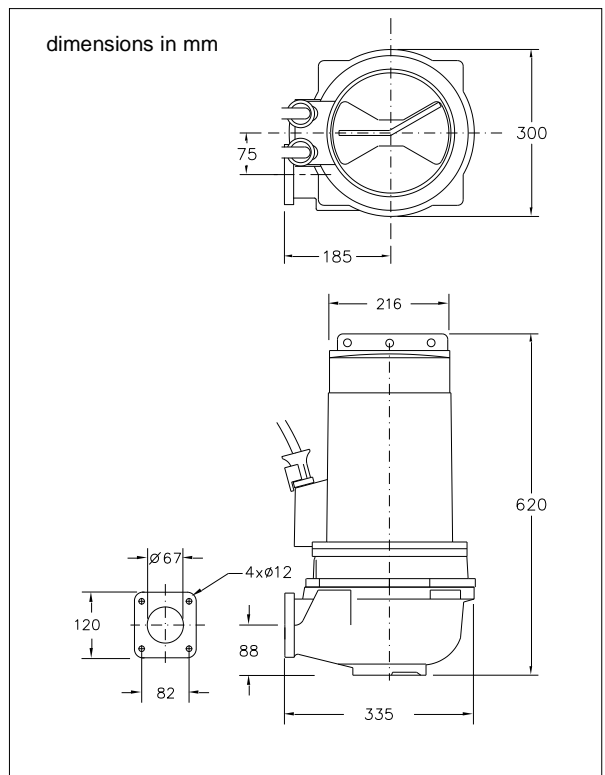
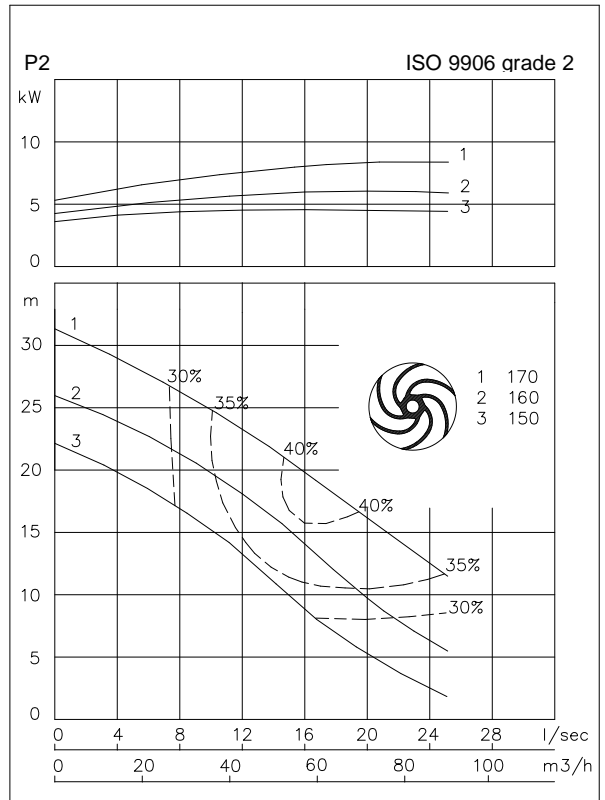


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

voltage	current	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	29.9	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5	
400	17.2	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
500	13.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.3 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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)
 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

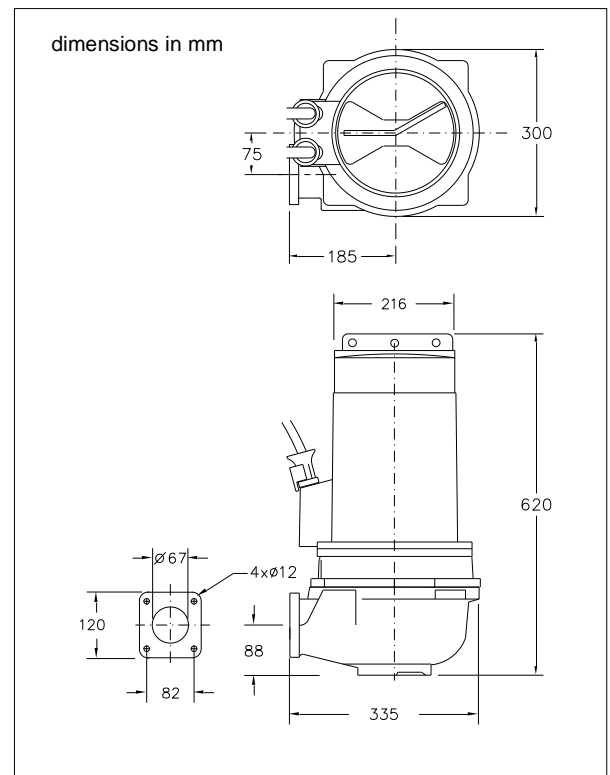
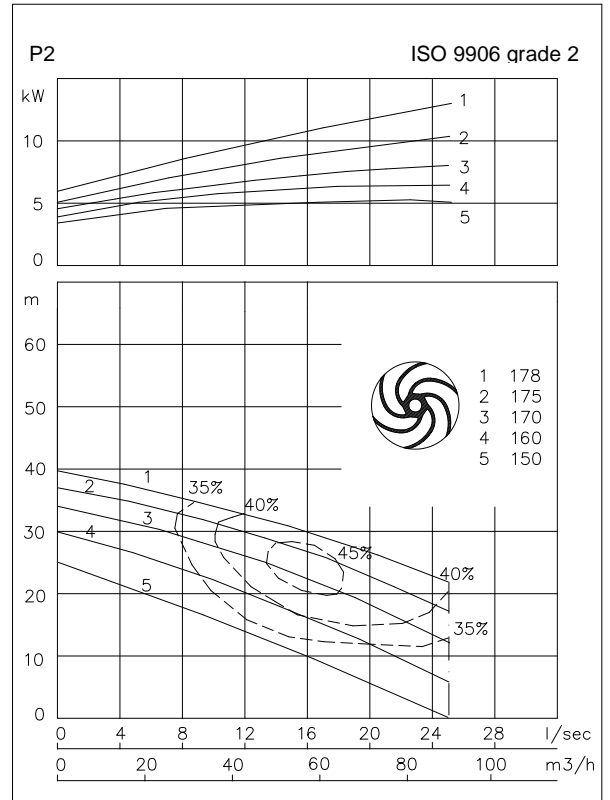


Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection



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

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		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	12G1.5	4G6 + 4G2.5	12G1.5	
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
starting current DOL start : 7.8 x rated current								
starting current YD start : 2.6 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 215 - 190 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 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)
 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



Guide bar coupling OWK 100

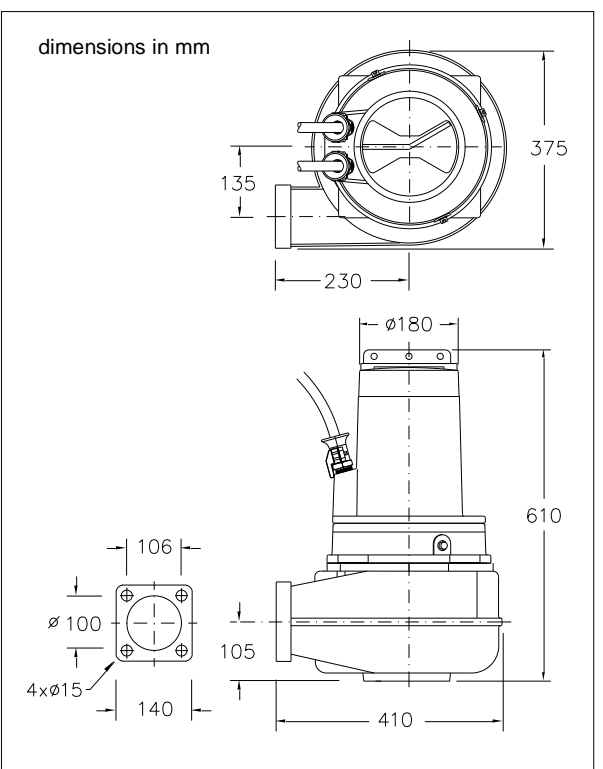
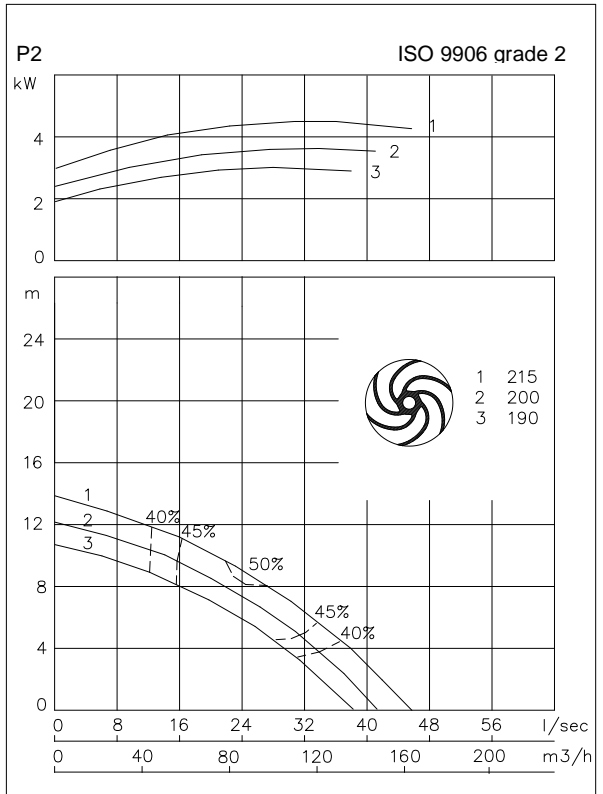


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		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	12G1.5	7G2.5	12G1.5	
400	11.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	9.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 5.0 x rated current								
starting current YD start : 1.7 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 215 - 190 mm
 Recommended min. flow 2 l/sec (8 m3/h)
 Weight 105 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 6.0 kW
 Rated electrical power 7.7 kW
 Nominal speed 1395 rpm
 Motor efficiency 78 %
 Power factor (cos phi) 0.85
 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)
 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



Guide bar coupling OWK 100

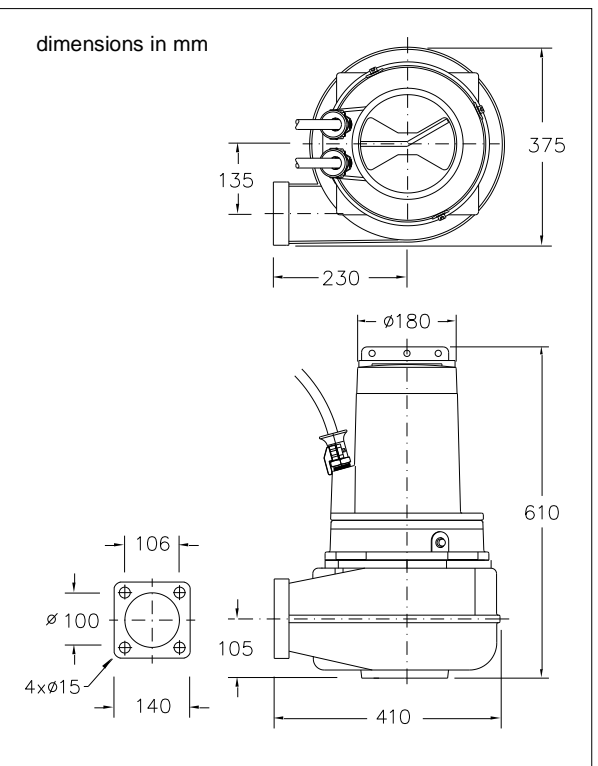
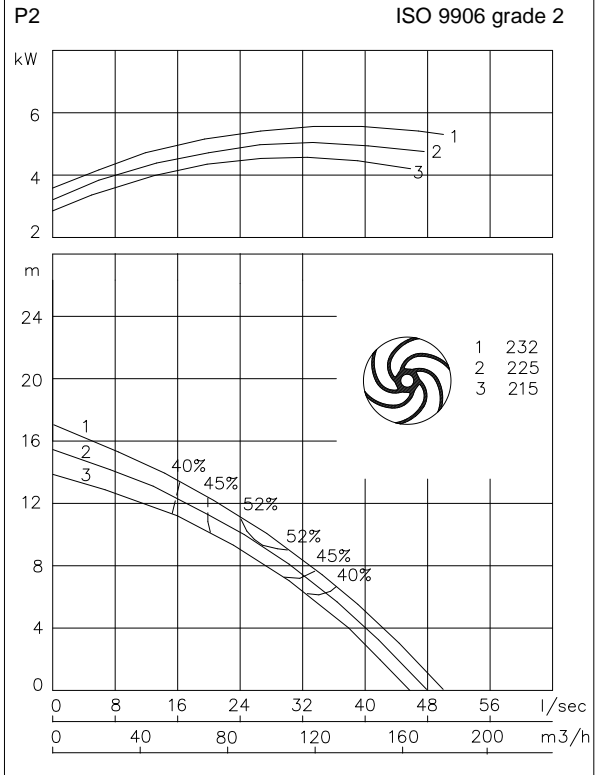


Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	22.9	4G6	7G1.5	4G6 + 4G1.5	12G1.5	4G6 + 4G2.5	12G1.5	
400	13.1	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	10.5	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.2 x rated current								
starting current YD start : 1.4 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 242 - 225 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 110 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 7.5 kW
 Rated electrical power 9.3 kW
 Nominal speed 1390 rpm
 Motor efficiency 81 %
 Power factor (cos phi) 0.88
 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)
 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



Guide bar coupling OWK 100

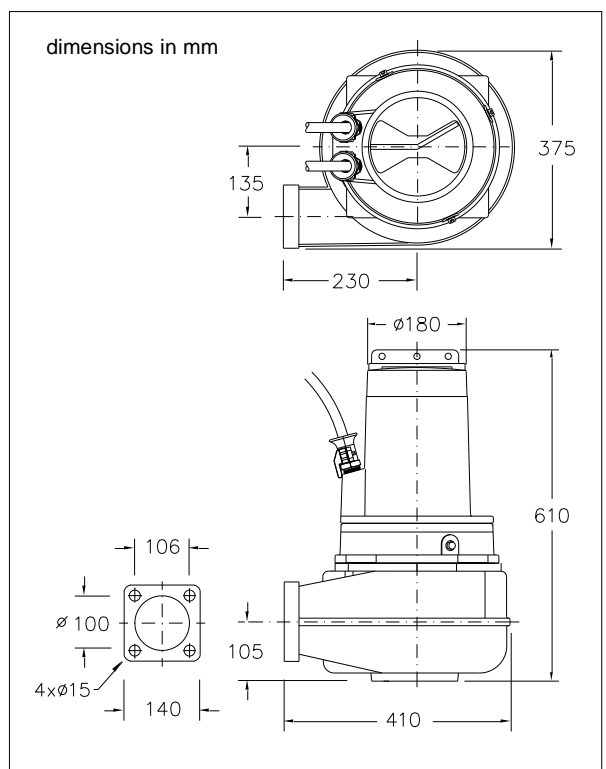
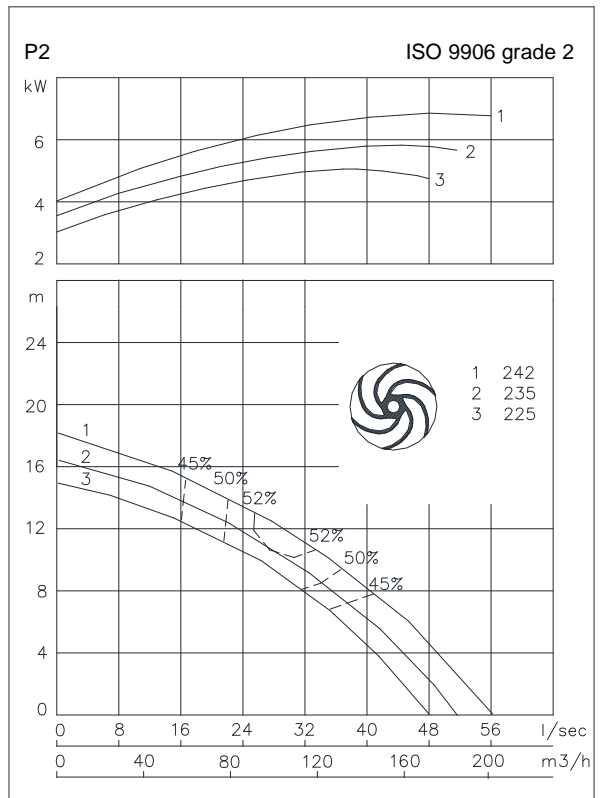


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	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	26.4	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5	
400	15.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	12.1	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.1 x rated current								
starting current YD start : 2.0 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 155 - 130 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 95 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 5.0 kW
 Rated electrical power 6.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 82 %
 Power factor (cos phi) 0.90
 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)
 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



Guide bar coupling OWK 100

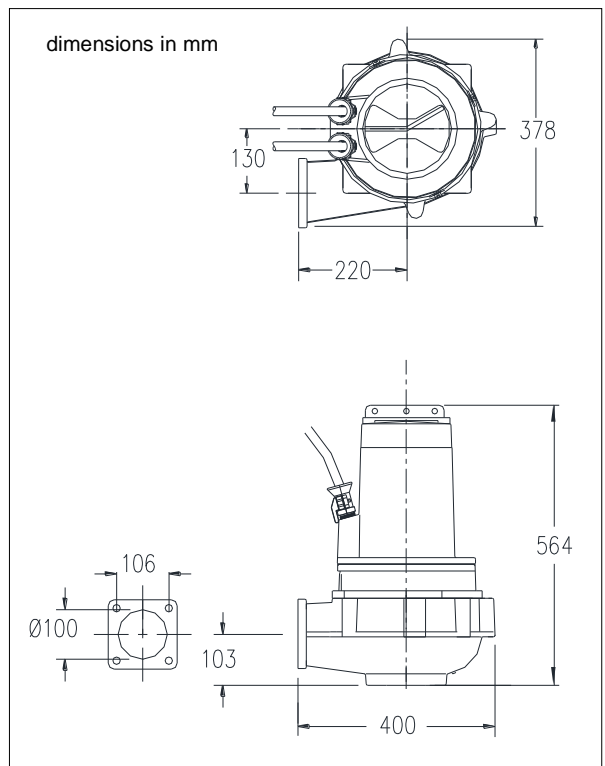
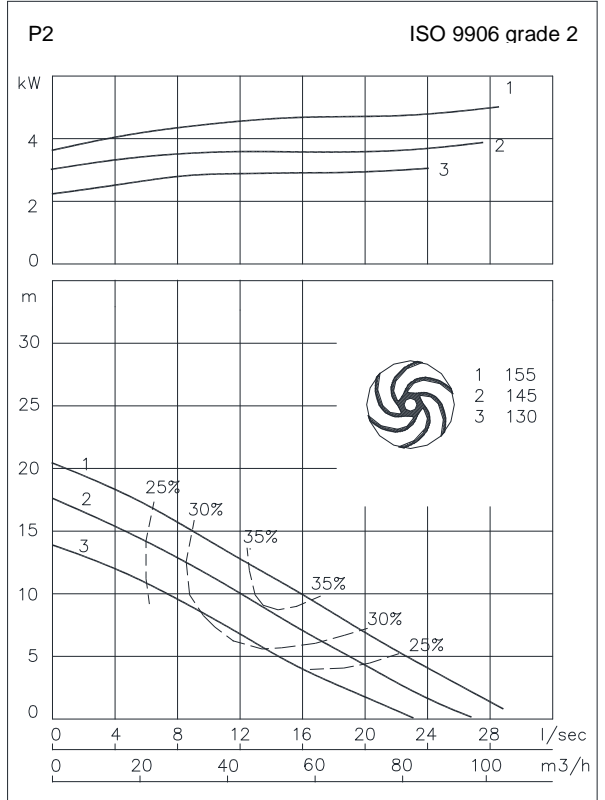


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	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	17.0	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
400	9.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	7.8	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.2 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 170 - 160 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 115 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 9.0 kW
 Rated electrical power 10.6 kW
 Nominal speed 2900 rpm
 Motor efficiency 85 %
 Power factor (cos phi) 0.89
 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)
 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



Guide bar coupling OWK 100

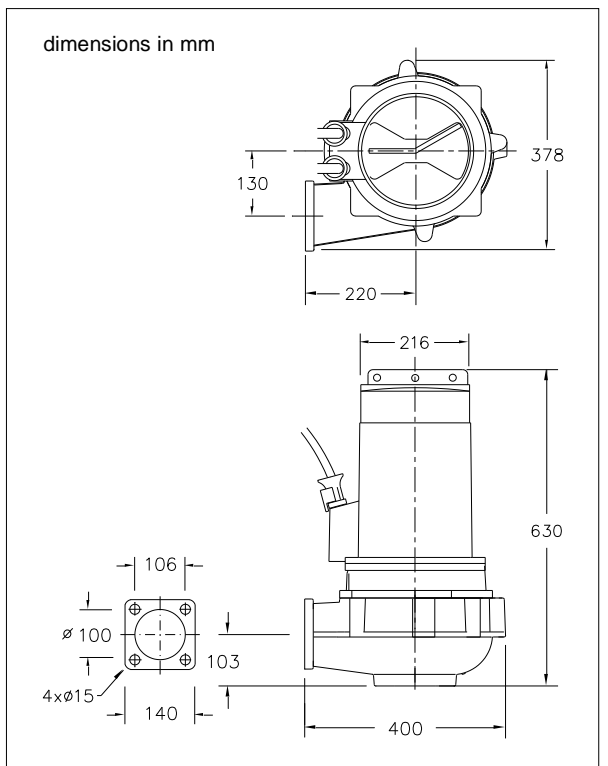
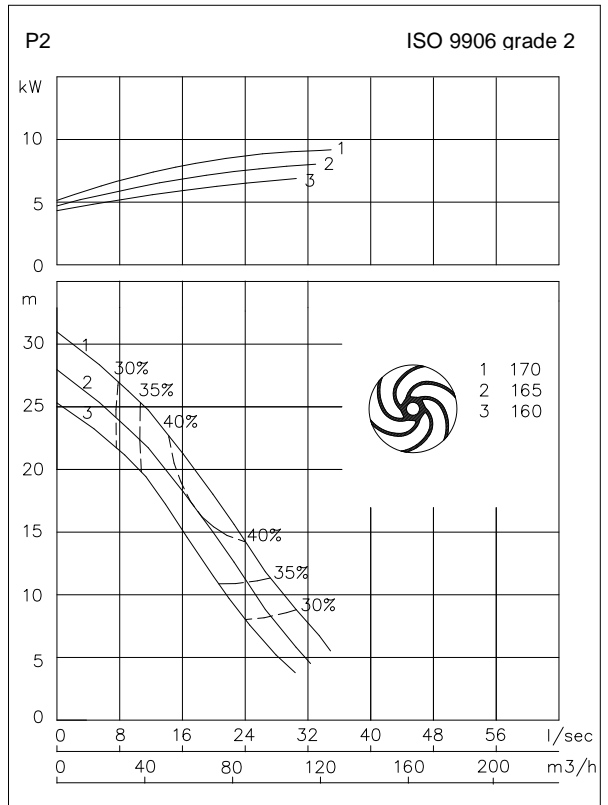


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm²]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	29.9	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5	
400	17.2	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
500	13.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.3 x rated current								
starting current YD start : 2.1 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 178 - 160 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 135 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)
 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



Guide bar coupling OWK 100

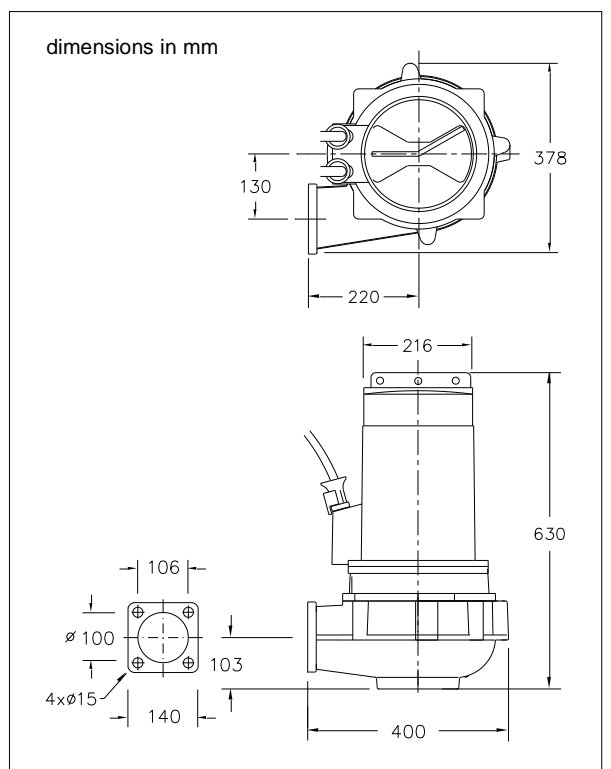
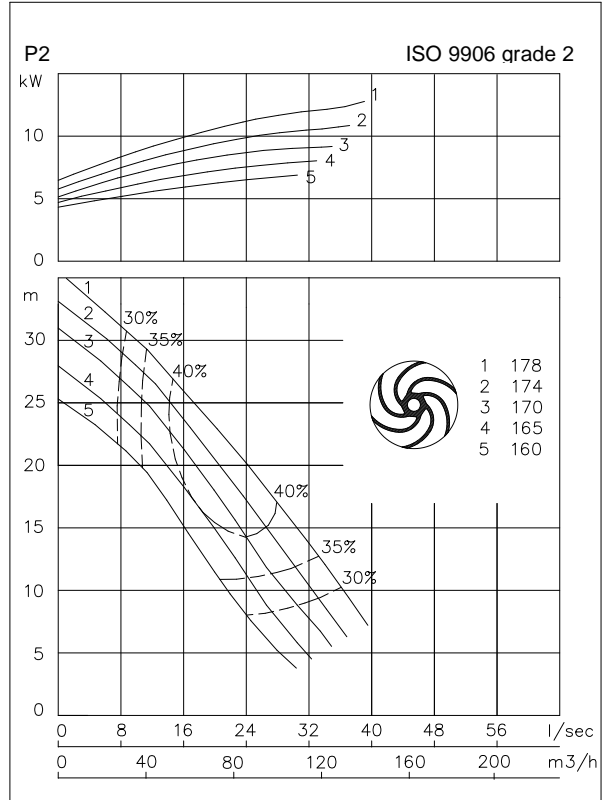


Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		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	12G1.5	4G6 + 4G2.5	12G1.5	
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
starting current DOL start : 7.8 x rated current								
starting current YD start : 2.6 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 190 - 150 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 135 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)
 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



Guide bar coupling OWK 100

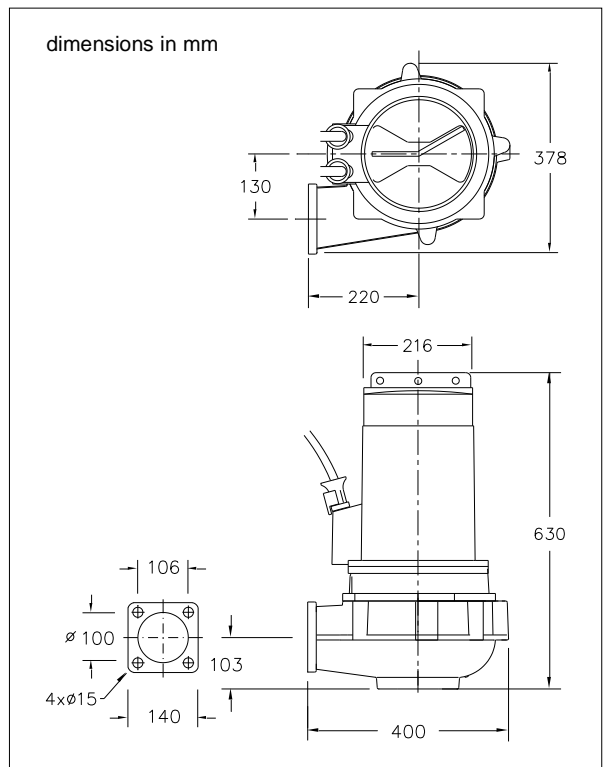
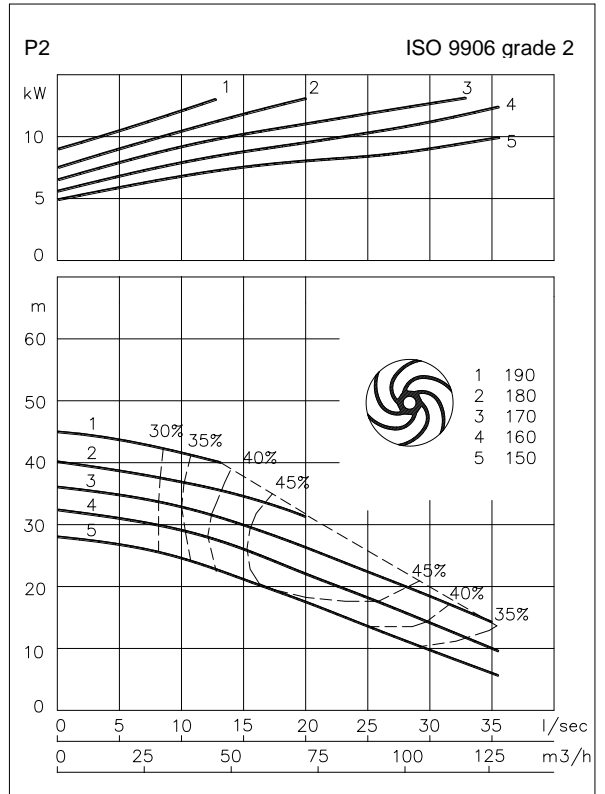


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		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	12G1.5	4G6 + 4G2.5	12G1.5	
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5	7G2.5	12G1.5	
starting current DOL start : 7.8 x rated current								
starting current YD start : 2.6 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 155 - 130 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 95 kg

Motor


Mains: 50 c/s – 3 phase
 Rated shaft power 5.0 kW
 Rated electrical power 6.1 kW
 Nominal speed 2790 rpm
 Motor efficiency 82 %
 Power factor (cos phi) 0.90
 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)
 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

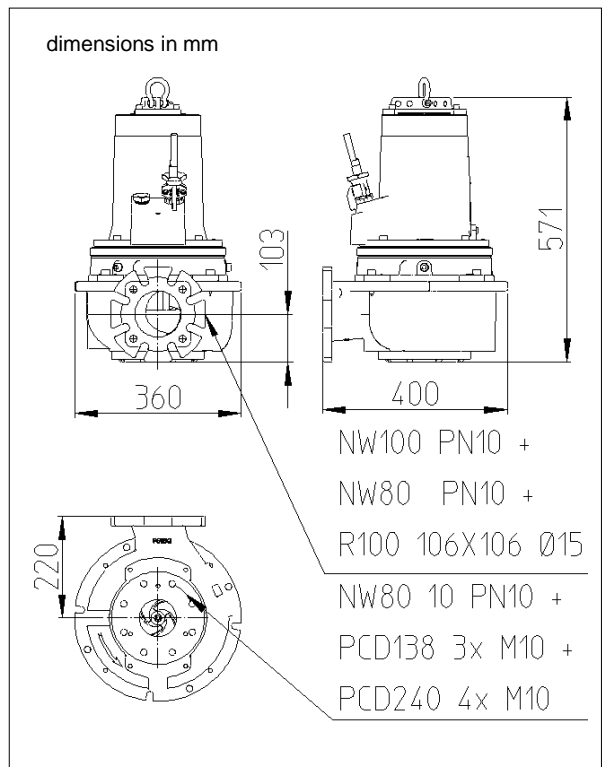
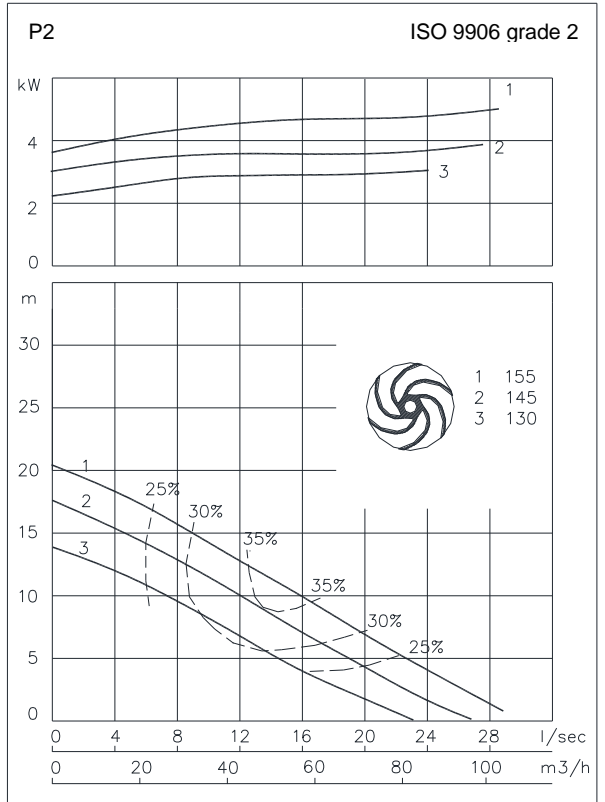
Guide bar coupling OWK100-N/ OWK080-N 

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

Optional

- Thermo switches in stator windings
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber

Connections



voltage	current	Electrical cable size [mm2]		motor protection and/or water detector	
		direct start	stardelta start	direct start	stardelta start
[V]*	[A]				
230	17.0	4G2.5	7G1.5	7G2.5	12G1.5
400	9.8	4G2.5	7G1.5	7G1.5	12G1.5
500	7.8	4G2.5	7G1.5	7G1.5	12G1.5
starting current DOL start : 6.2 x rated current					
starting current YD start : 2.1 x rated current					
* other voltages on request					

DWP42-34BR



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

Pump data

Solids passage: 80 mm
 Discharge/ Suction diameter: 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter: 170 - 160 mm
 Recommended min. flow: 6 l/sec (21 m3/h)
 Weight: 115 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power: 9.0 kW
 Rated electrical power: 10.6 kW
 Nominal speed: 2900 rpm
 Motor efficiency: 85 %
 Power factor (cos phi): 0.89
 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
 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

Guide bar coupling: OWK 100-N/ OWK 80-N



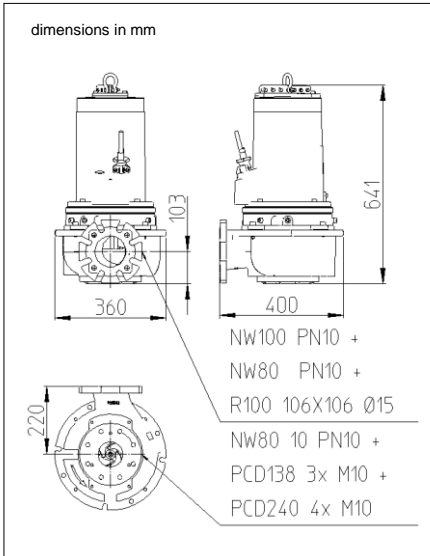
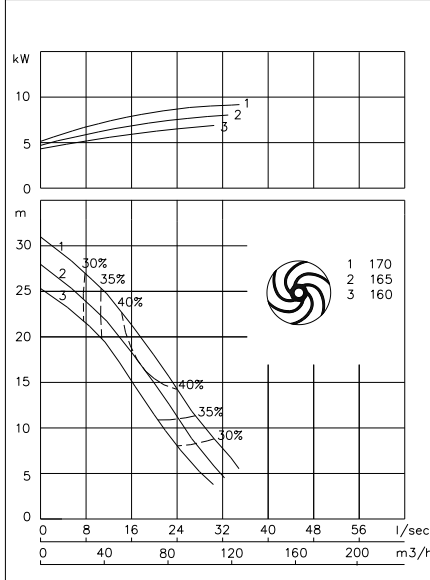
Freestanding
 Including support (VRS): 100mm hose connection or
 G 4" threaded connection



Optional

- Thermo switches in stator windings
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber

Connections



voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector	
		direct start	stardelta start	direct start	stardelta start
230	29.9	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5
400	17.2	4G2.5	7G1.5	7G2.5	12G1.5
500	13.7	4G2.5	7G1.5	7G1.5	12G1.5
starting current DOL start : 6.3 x rated current					
starting current YD start : 2.1 x rated current					

Met opmerkingen [JW1]:



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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 178 - 160 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 135 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

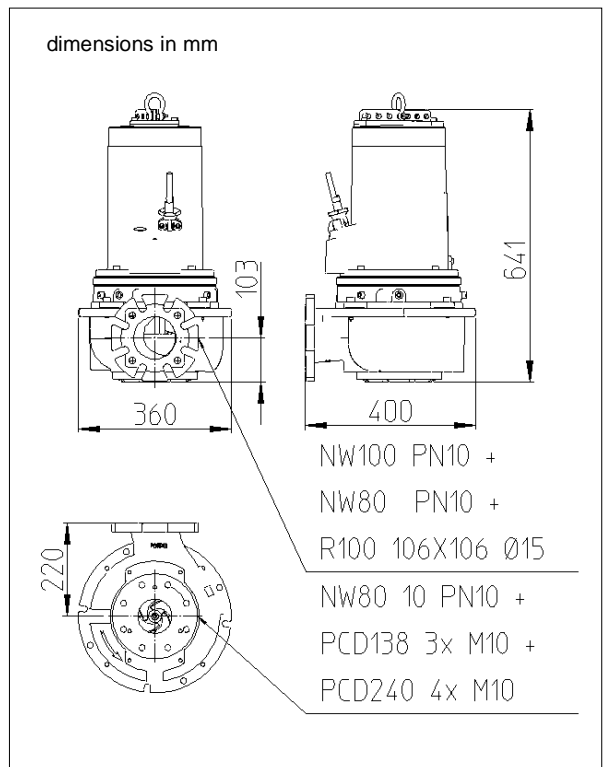
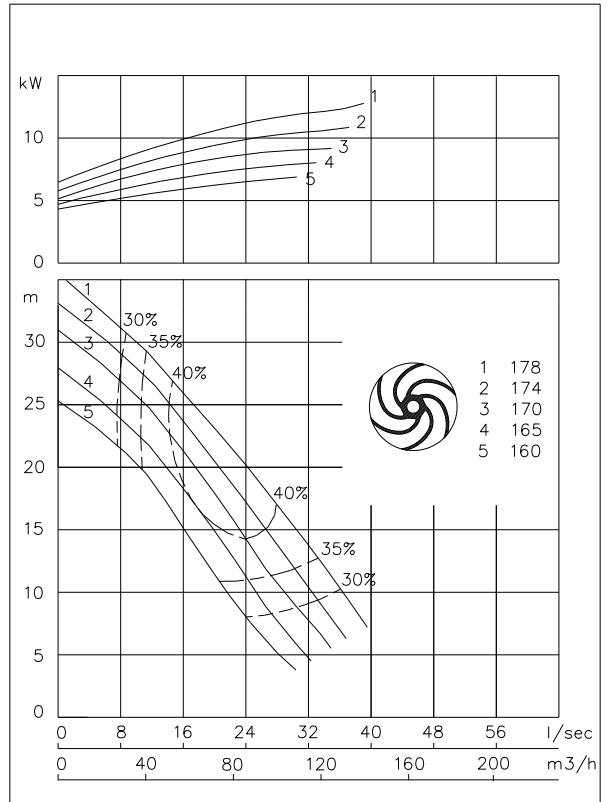
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Header coupling BWK 100 
 Guide bar coupling OWK 100-N OWK080-N 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 

Optional

- Thermo switches in stator windings
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber



Connections

		Electrical cable size [mm2]		motor protection and/or water detector			
voltage	current	direct start	stardelta start	direct start	stardelta start		
[V]*	[A]						
230	42.1	4G10	2x4G6	4G10 + 4G1.5	-		
400	24.2	4G6	7G1.5	4G6 + 4G1.5	12G1.5		
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5		
starting current DOL start : 7.8 x rated current							
starting current YD start : 2.6 x rated current				* other voltages on request			

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 190 - 150 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 135 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)
 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

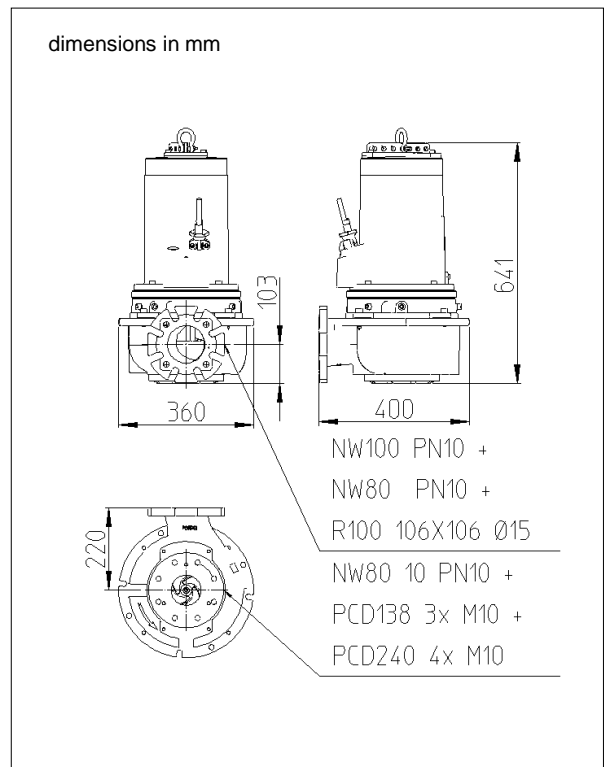
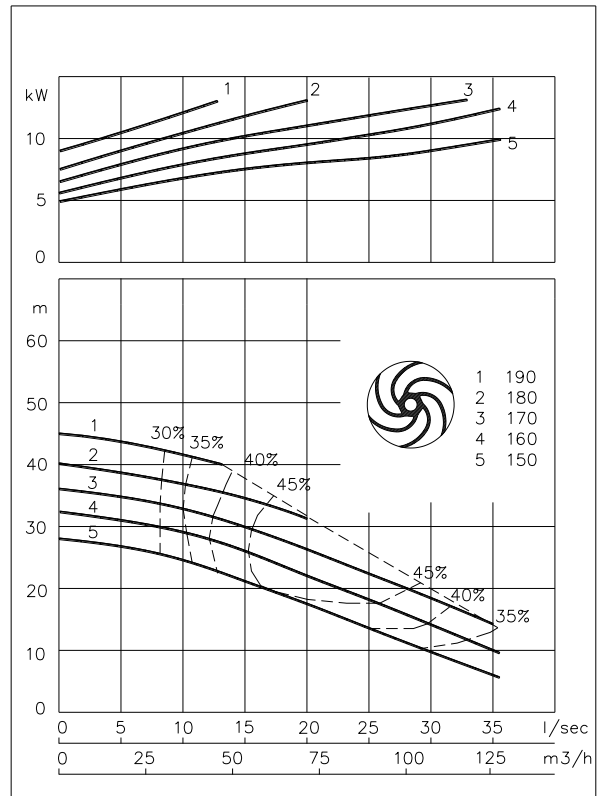
Guide bar coupling OWK100-N/OWK80-N 

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

Optional

- Thermo switches in stator windings
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber

Connections



		Electrical cable size [mm2]		motor protection and/or water detector	
voltage	current	direct start	stardelta start	direct start	stardelta start
[V]*	[A]				
230	42.1	4G10	2x4G6	4G10 + 4G1.5	-
400	24.2	4G6	7G1.5	4G6 + 4G1.5	12G1.5
500	19.3	4G2.5	7G1.5	7G2.5	12G1.5
starting current DOL start : 7.8 x rated current					
starting current YD start : 2.6 x rated current					

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 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)
 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



Guide bar coupling OWK 100

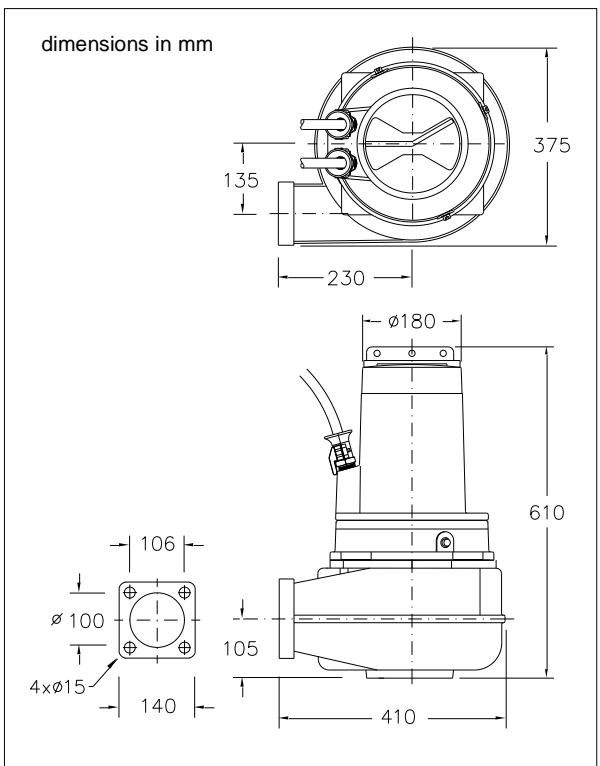
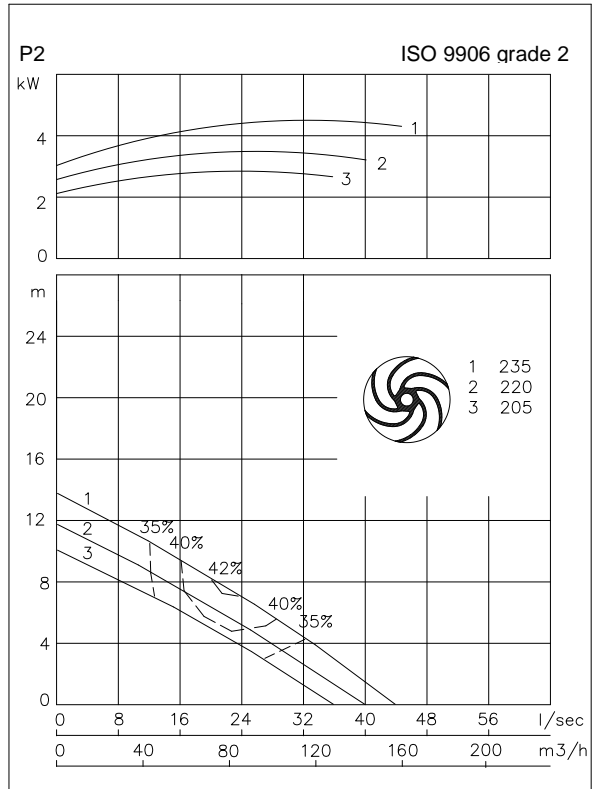


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage	current	Electrical cable size [mm2]		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	12G1.5	7G2.5	12G1.5
400	11.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
500	9.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 5.0 x rated current							
starting current YD start : 1.7 x rated current						* other voltages on request	

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 250 - 230 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 105 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 6.0 kW
 Rated electrical power 7.7 kW
 Nominal speed 1395 rpm
 Motor efficiency 78 %
 Power factor (cos phi) 0.85
 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)
 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



Guide bar coupling OWK 100

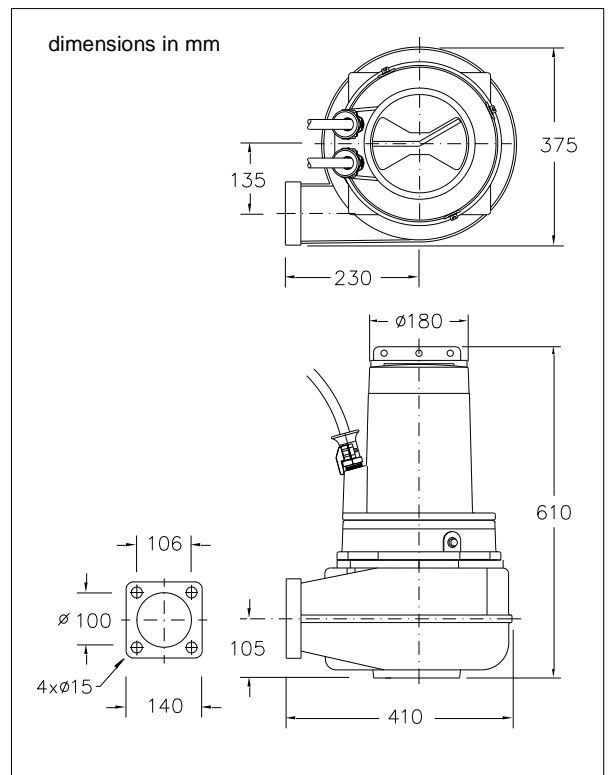
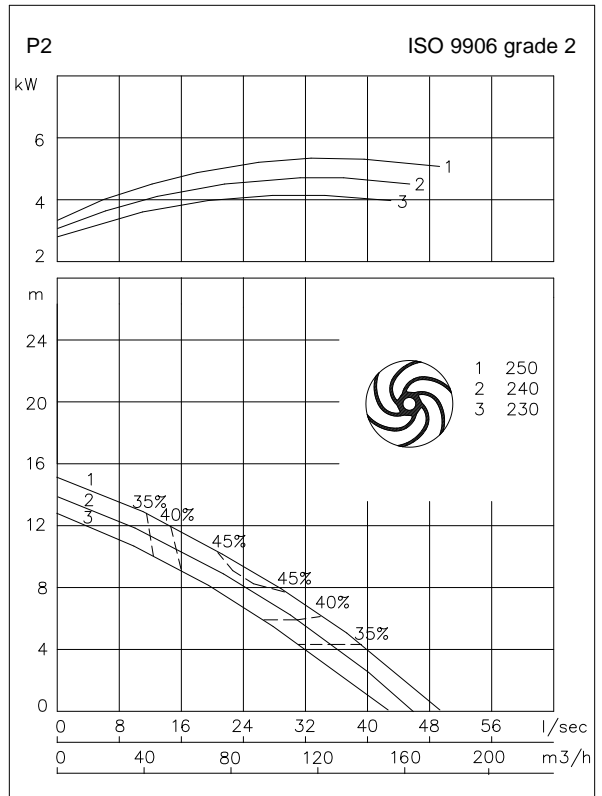


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	22.9	4G6	7G1.5	4G6 + 4G1.5	12G1.5	4G6 + 4G2.5	12G1.5	
400	13.1	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	10.5	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 4.2 x rated current								
starting current YD start : 1.4 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 110 mm
 Impeller type: Vortex
 Impeller diameter 232 - 210 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 114 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 7.5 kW
 Rated electrical power 9.3 kW
 Nominal speed 1390 rpm
 Motor efficiency 81 %
 Power factor (cos phi) 0.88
 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)
 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



Guide bar coupling OWK 100

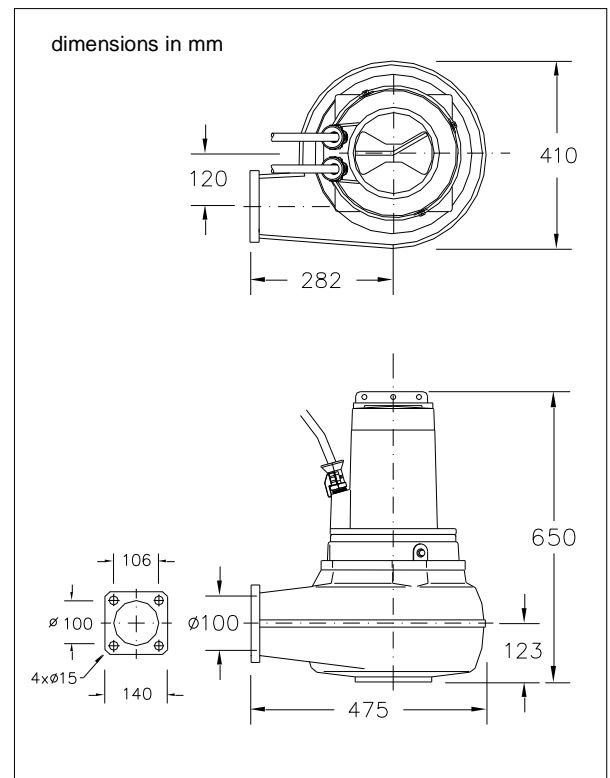
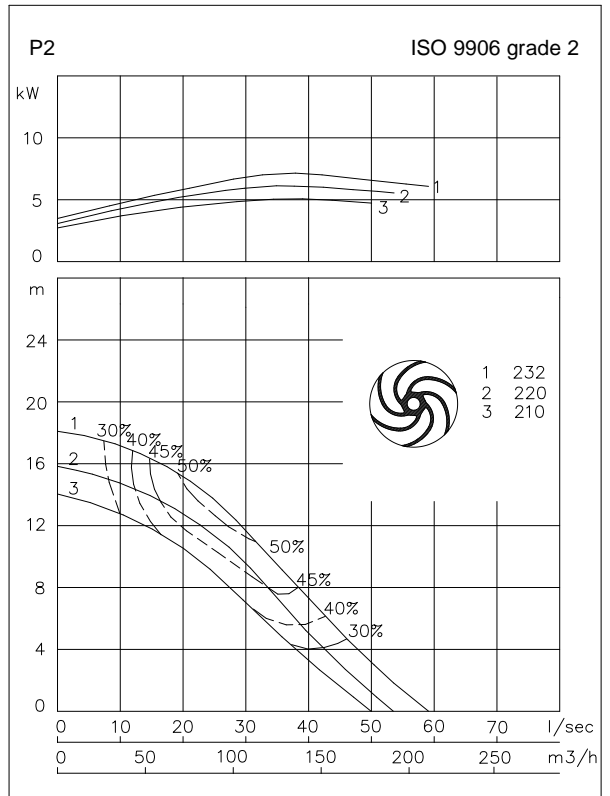


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	26.4	4G6	7G2.5	4G6 + 4G1.5	7G2.5 + 4G1.5	4G6 + 4G2.5	7G2.5 + 4G2.5	
400	15.2	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	12.1	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.1 x rated current								
starting current YD start : 2.0 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 110 mm
 Impeller type: Vortex
 Impeller diameter 245 - 220 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 120 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 10.5 kW
 Rated electrical power 12.5 kW
 Nominal speed 1420 rpm
 Motor efficiency 84 %
 Power factor (cos phi) 0.85
 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)
 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



Guide bar coupling OWK 100

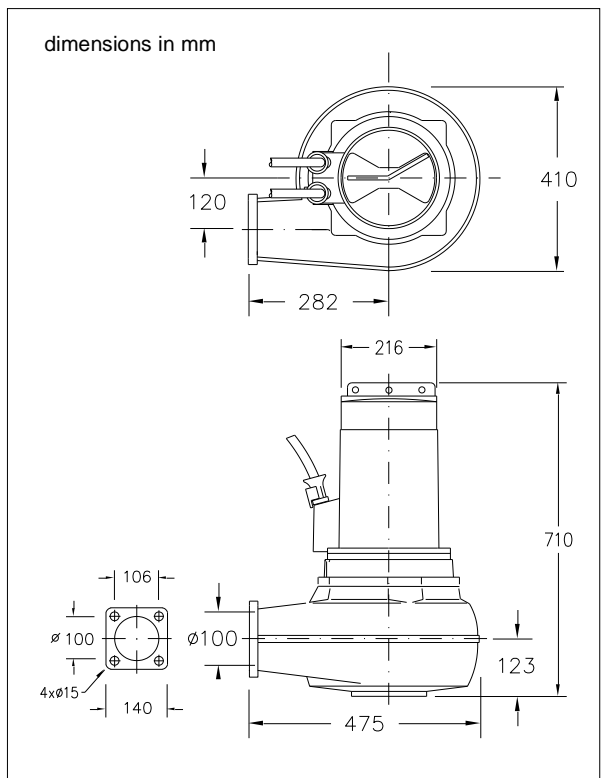
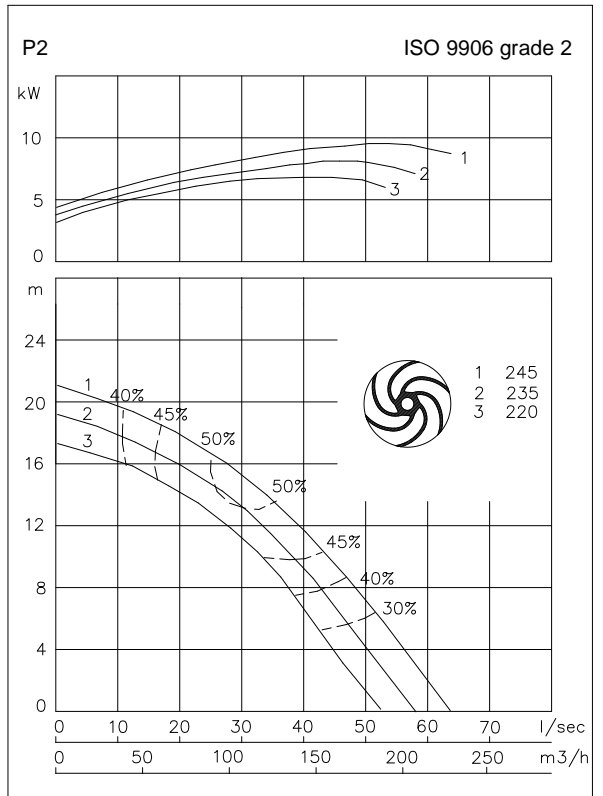


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	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	36.9	4G10	2x4G6	4G10 + 4G1.5	-	4G10 + 4G2.5	-	
400	21.2	4G6	7G1.5	4G6 + 4G1.5	12G1.5	4G6 + 4G2.5	12G1.5	
500	17.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 5.0 x rated current								
starting current YD start : 1.7 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 110 mm
 Impeller type: Vortex
 Impeller diameter 245 - 220 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 120 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 10.5 kW
 Rated electrical power 12.5 kW
 Nominal speed 1420 rpm
 Motor efficiency 84 %
 Power factor (cos phi) 0.85
 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)
 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



Guide bar coupling OWK 100

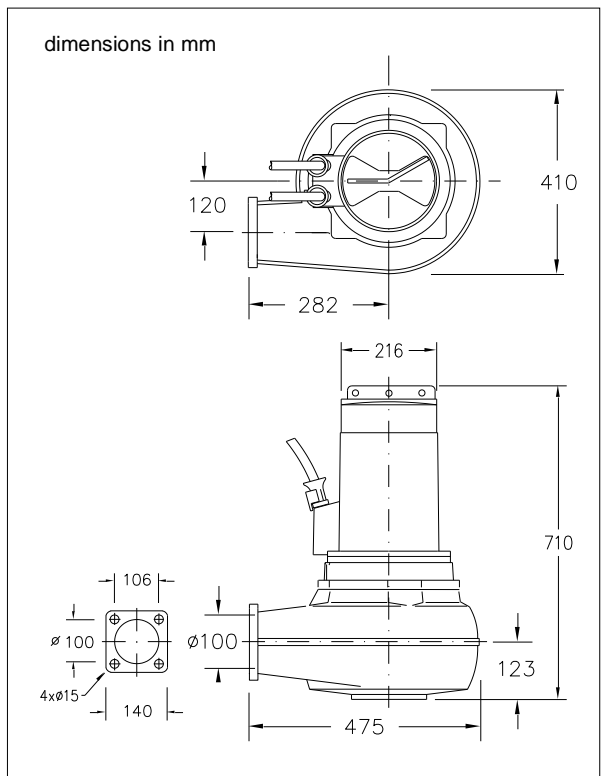
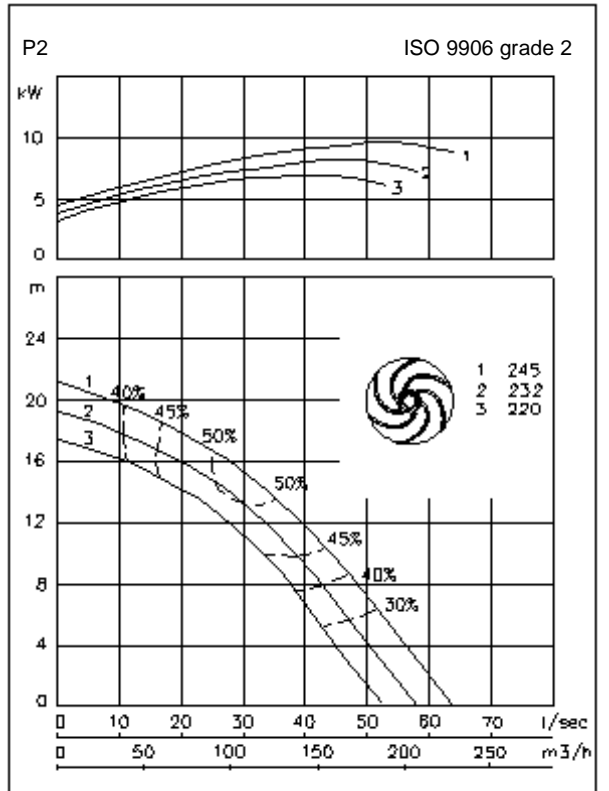


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	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	36.9	4G10	2x4G6	4G10 + 4G1.5	-	4G10 + 4G2.5	-
400	21.2	4G6	7G1.5	4G6 + 4G1.5	12G1.5	4G6 + 4G2.5	12G1.5
500	17.0	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5
starting current DOL start : 5.0 x rated current							
starting current YD start : 1.7 x rated current				* other voltages on request			

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 110 mm
 Impeller type: Vortex
 Impeller diameter 252 - 225 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 125 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 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)
 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



Guide bar coupling OWK 100

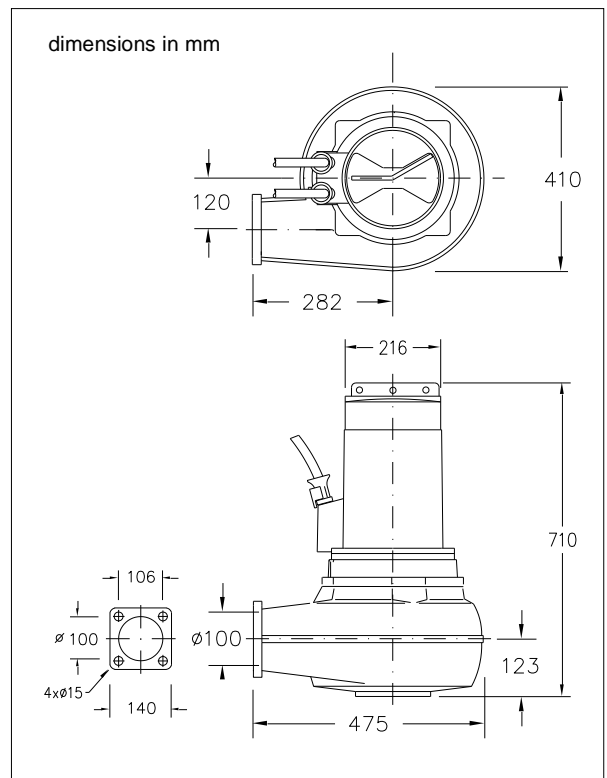
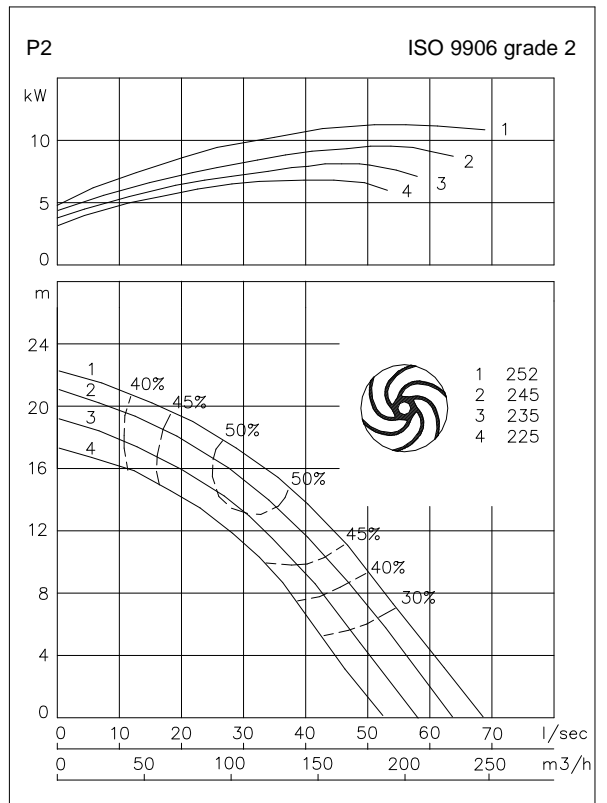


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
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	12G1.5	4G6 + 4G2.5	12G1.5	
starting current DOL start : 5.0 x rated current								
starting current YD start : 1.7 x rated current								
							* other voltages on request	

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 224 – 168 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 100 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 2.4 kW
 Rated electrical power 3.2 kW
 Nominal speed 960 rpm
 Motor efficiency 75 %
 Power factor (cos phi) 0.81
 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)
 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



Guide bar coupling OWK 100

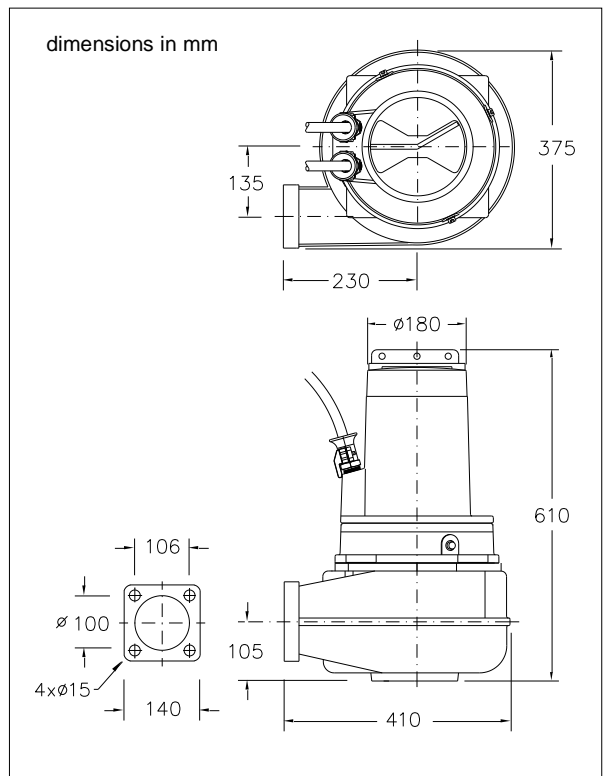
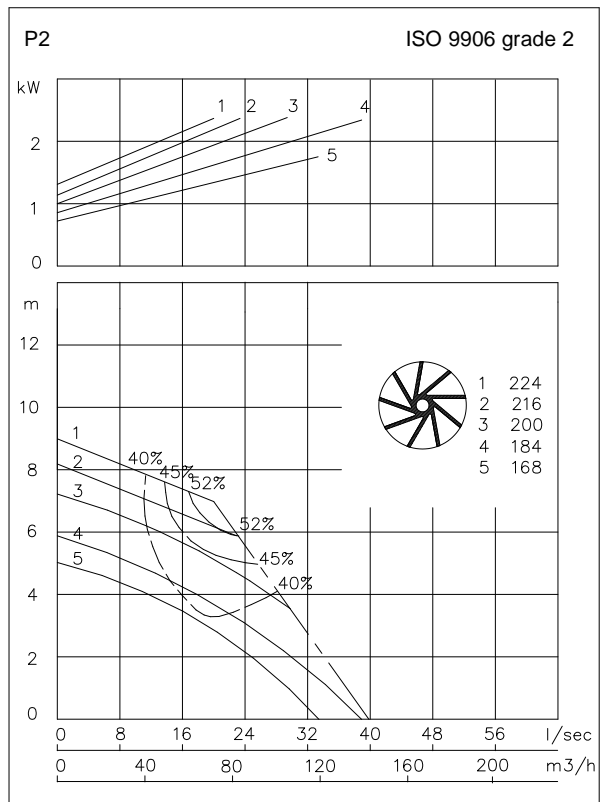


Freestanding Including support (VRS) 100mm hose connection or G 4" threaded connection



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



Connections

voltage	current	Electrical cable size [mm2]		motor protection and/or water detector		flameproof version		
		direct start	stardelta start	direct start	stardelta start	direct start	stardelta start	
230	9.9	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
400	5.7	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
500	4.6	4G2.5	7G1.5	7G1.5	12G1.5	7G1.5	12G1.5	
starting current DOL start : 6.0 x rated current								
starting current YD start : 2.0 x rated current								
							* other voltages on request	

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 220 - 180 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 260 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 29.0 kW
 Rated electrical power 32.6 kW
 Nominal speed 2920 rpm
 Motor efficiency 89 %
 Power factor (cos phi) 0.92
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

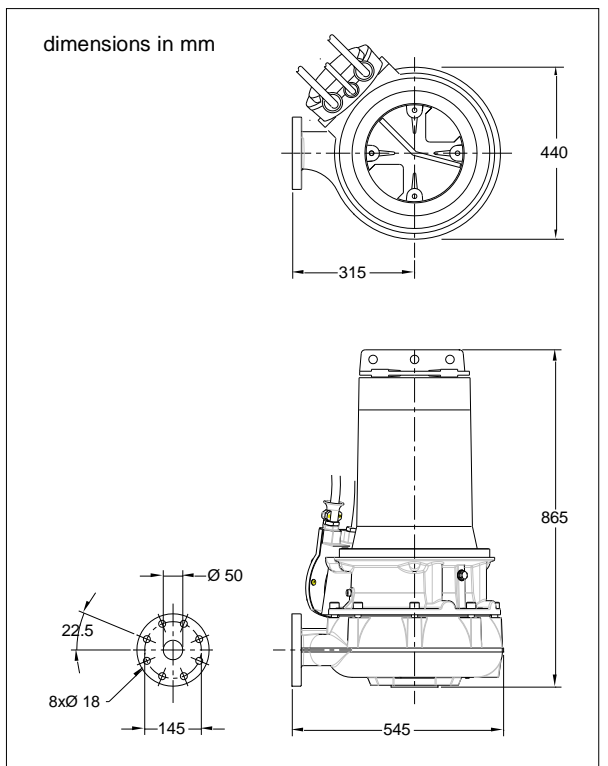
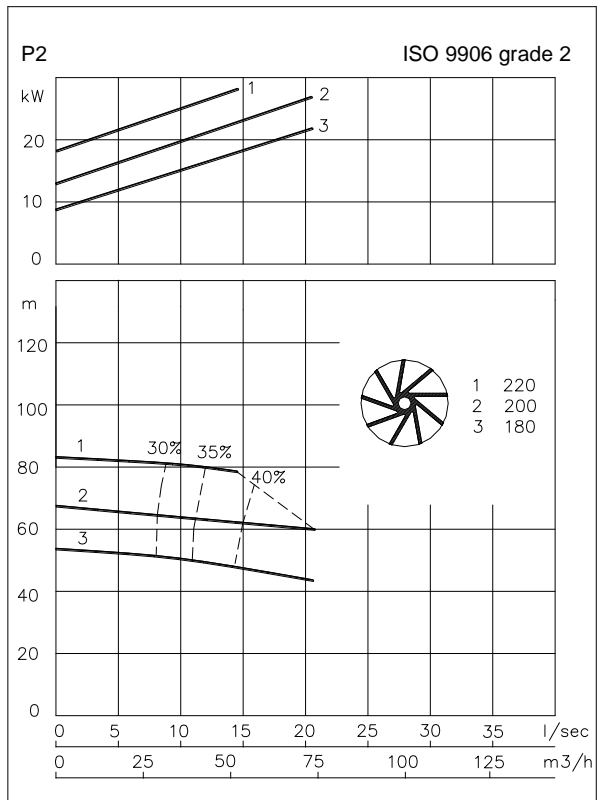
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100-65-N 
 Freestanding Including support (VRS) 75 mm hose connection or G 3" threaded connection 
 Dry Installation Including cooling system (ODO) vertical or horizontal install. discharge flange NW65 suction flange NW65 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	88.9	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
400	51.1	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
500	40.9	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.6 x rated current					
starting current YD start : 1.9 x rated current					
					* other voltages on request

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 250 - 200 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 320 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 52.7 kW
 Nominal speed 2955 rpm
 Motor efficiency 91 %
 Power factor (cos phi) 0.93
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

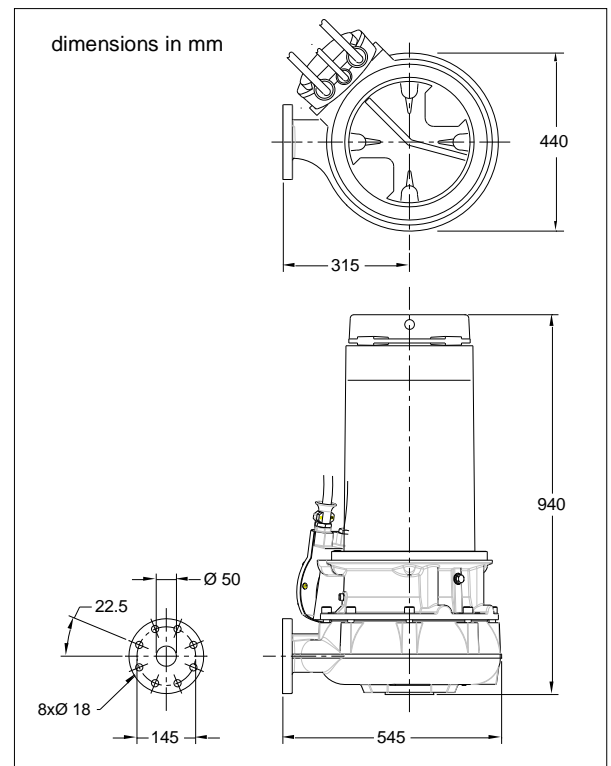
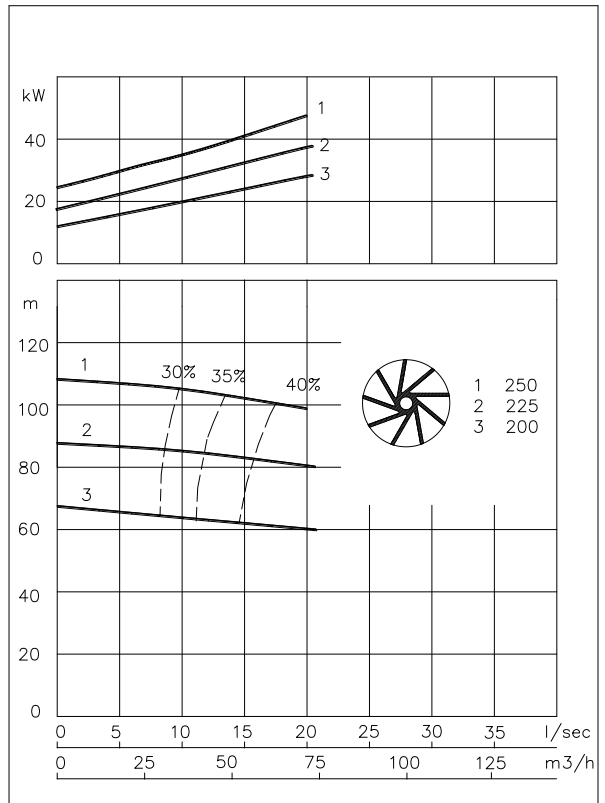
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolts Alt: AISI 316
 AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100-065-N 
 Freestanding Including support (VRS) 75mm hose connection or G 3" threaded connection 
 Dry Installation Including cooling system (ODO) vertical or horizontal install. discharge flange NW65 suction flange NW65 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	142.4	-	-	-	-
400	81.9	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
500	65.5	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 6.2 x rated current					
starting current YD start : 2.1 x rated current					
					* other voltages on request

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

Pump data

Solids passage 50 mm
 Discharge/ Suction diameter 50 mm/ 65 mm
 Impeller type: Vortex
 Impeller diameter 340 - 225 mm
 Recommended min. flow 1.5 l/sec (5 m3/h)
 Weight 240 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 16.0 kW
 Rated electrical power 18.8 kW
 Nominal speed 1450 rpm
 Motor efficiency 85 %
 Power factor (cos phi) 0.78
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

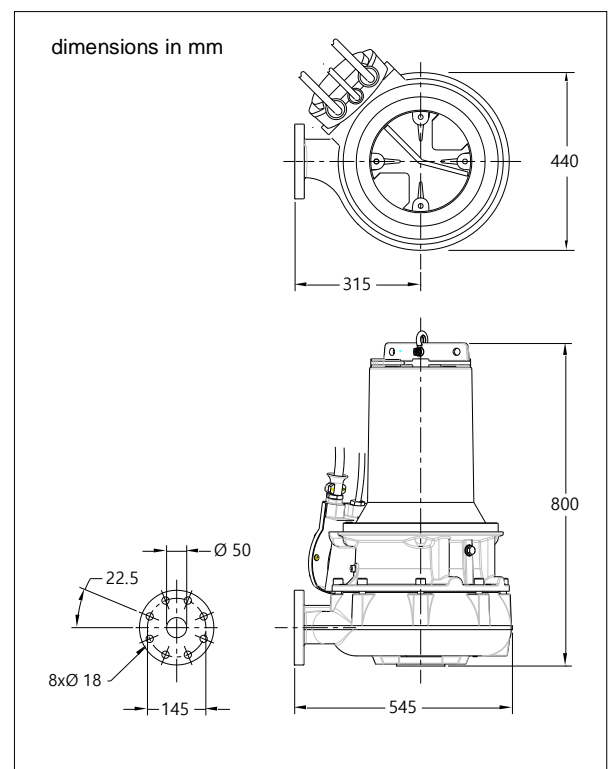
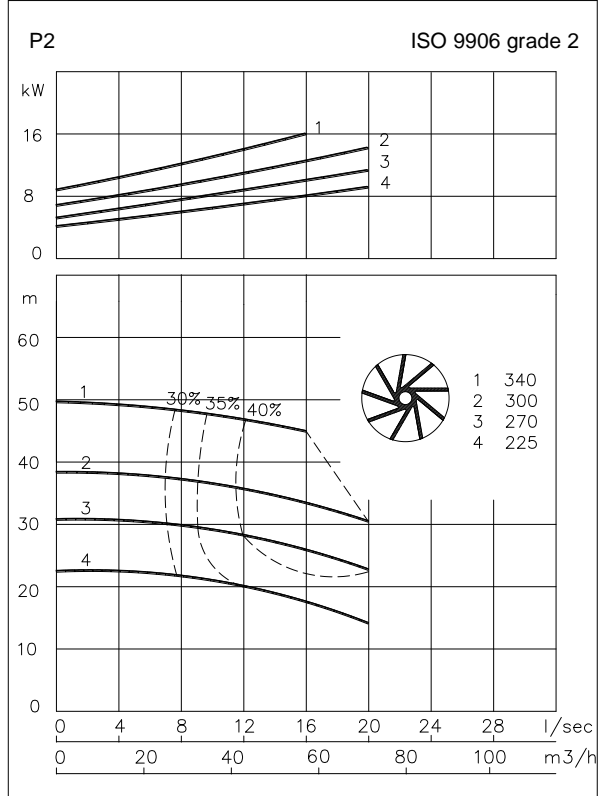
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolts Alt: AISI 316
 AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100-065-N 
 Freestanding 75 mm hose connection or 
 Including support (VRS) G 3" threaded connection
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW65
 (ODO) suction flange NW65

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	60.6	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
400	34.8	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
500	27.9	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
starting current DOL start : 5.4 x rated current					
starting current YD start : 1.8 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 200 - 155 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 265 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 20.0 kW
 Rated electrical power 22.7 kW
 Nominal speed 2925 rpm
 Motor efficiency 88 %
 Power factor (cos phi) 0.89
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

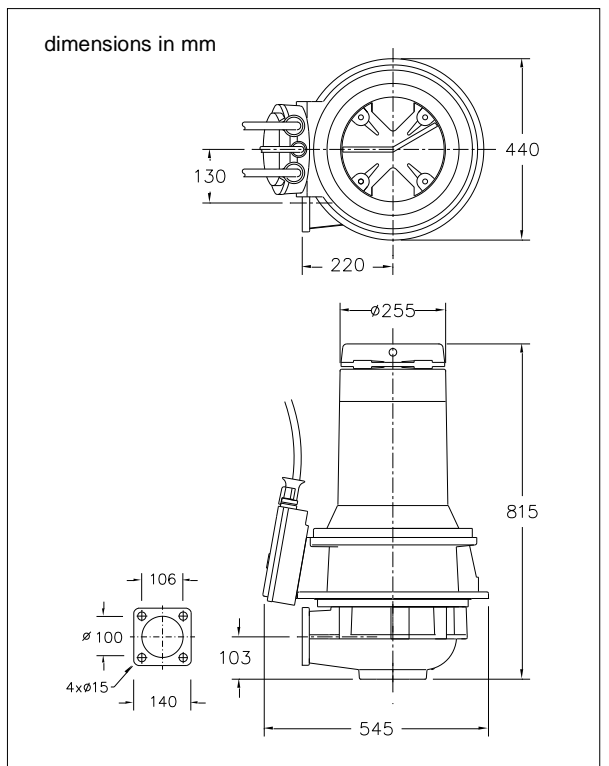
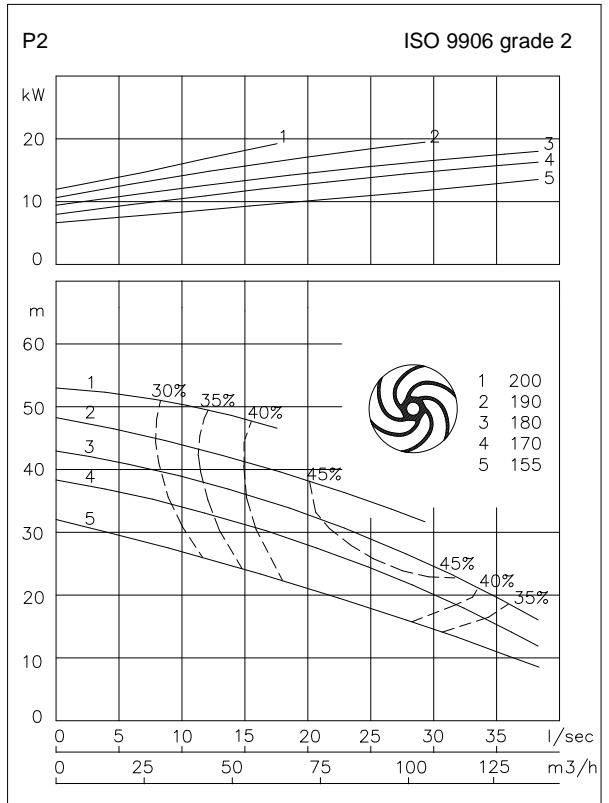
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 
 Freestanding 4" hose connection or
 Including support (VRS) G 4" threaded connection 
 Dry Installation vertical or horizontal install.
 Including cooling system discharge flange NW100
 (ODO) suction flange NW100 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	64.1	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
400	36.9	4G10 + 4G2.5	7G2.5 + 4G2.5	4G10 + 4G2.5	7G2.5 + 4G2.5
500	29.5	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
starting current DOL start : 5.5 x rated current					
starting current YD start : 1.8 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 240 - 175 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 285 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 29.0 kW
 Rated electrical power 32.6 kW
 Nominal speed 2900 rpm
 Motor efficiency 89 %
 Power factor (cos phi) 0.92
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

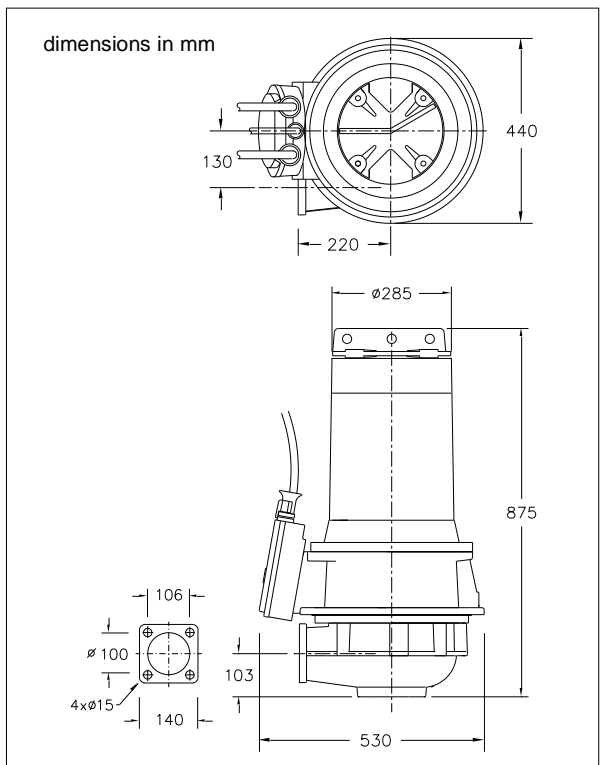
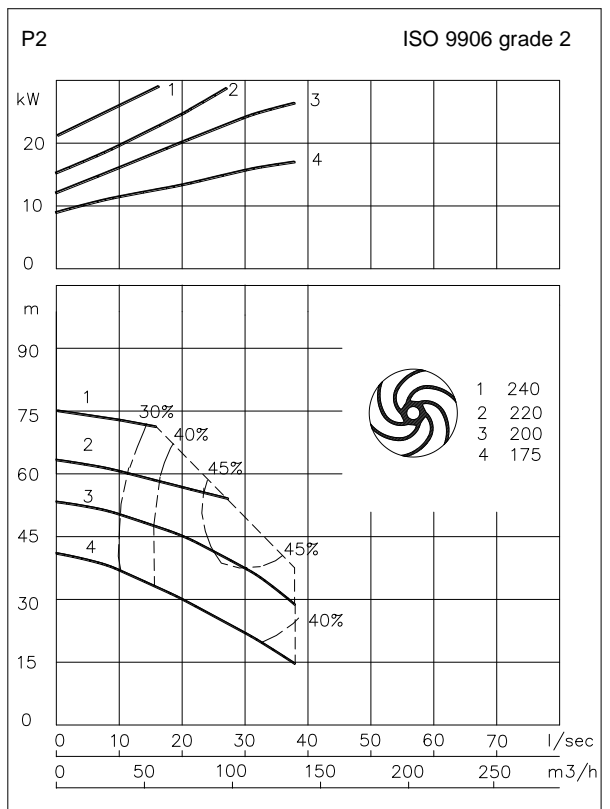
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install.
 Including cooling system discharge flange NW100 
 (ODO) suction flange NW100

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage	current	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	star-delta start	direct start	star-delta start
230	88.9	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
400	51.1	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
500	40.9	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.9 x rated current					
starting current YD start : 1.9 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 252 - 180 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 310 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 52.7 kW
 Nominal speed 2955 rpm
 Motor efficiency 91 %
 Power factor (cos phi) 0.93
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

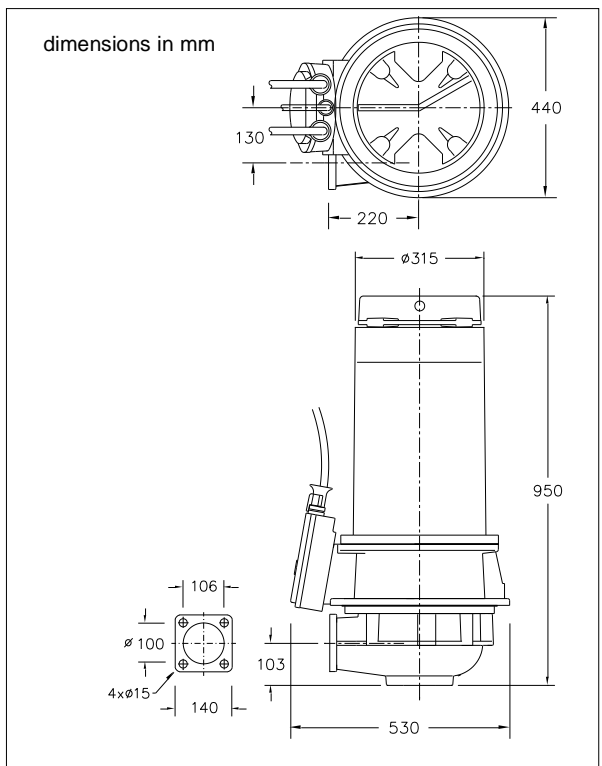
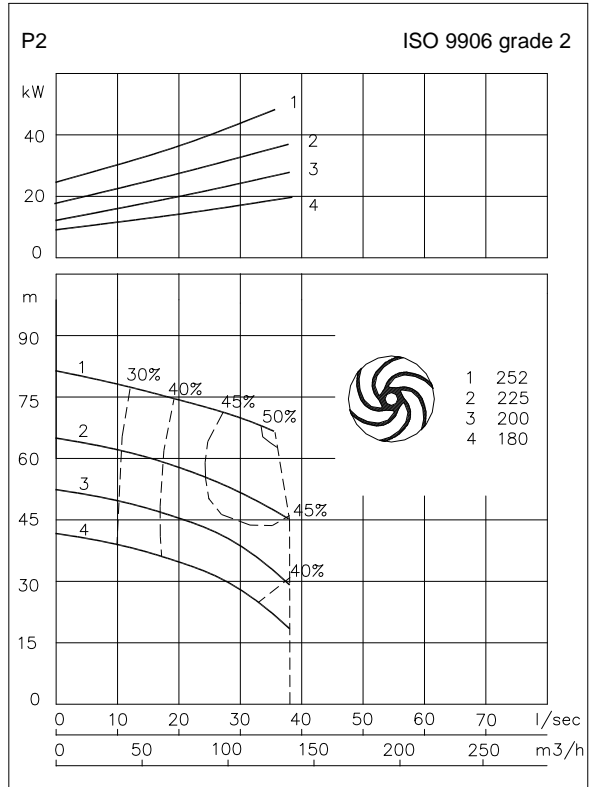
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolts Alt: AISI 316
 Elastomers AISI 316
 Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 
 Dry Installation Including cooling system (ODO) vertical or horizontal install. discharge flange NW100 suction flange NW100 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	142.4	-	-	-	-
400	81.9	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
500	65.5	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 6.2 x rated current					
starting current YD start : 2.1 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 215 – 160 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 275 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 29.0 kW
 Rated electrical power 32.6 kW
 Nominal speed 2920 rpm
 Motor efficiency 89 %
 Power factor (cos phi) 0.92
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

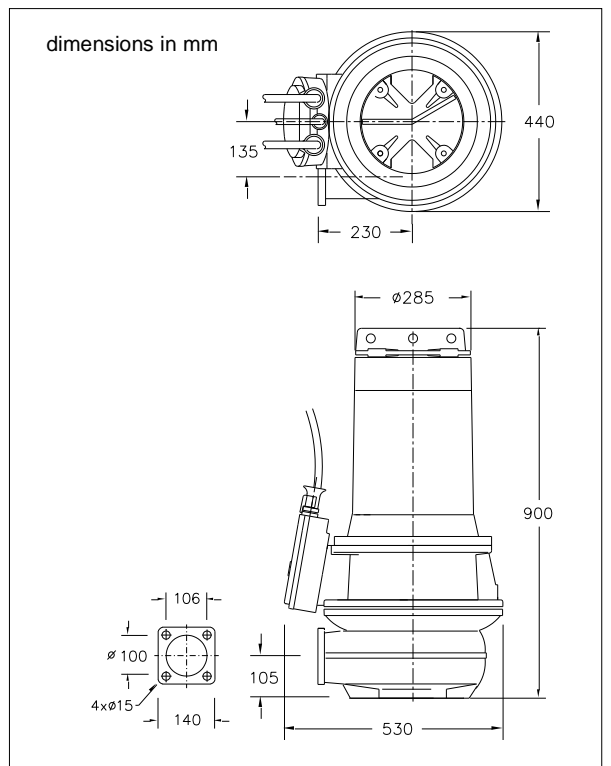
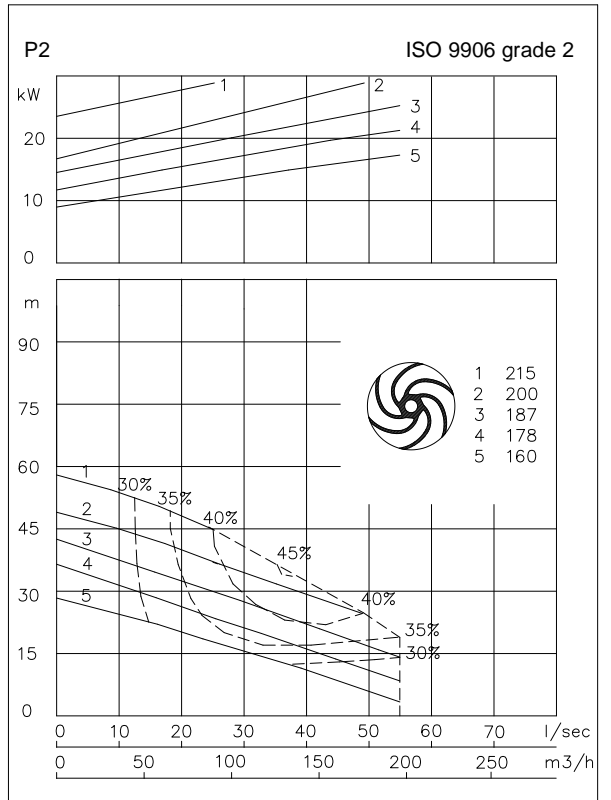
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Bolts Alt: AISI 316
 AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW100
 (ODO) suction flange NW100

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	88.9	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
400	51.1	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
500	40.9	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.9 x rated current					
starting current YD start : 1.9 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 100 mm
 Impeller type: Vortex
 Impeller diameter 252 - 200 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 310 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 52.7 kW
 Nominal speed 2955 rpm
 Motor efficiency 91 %
 Power factor (cos phi) 0.93
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

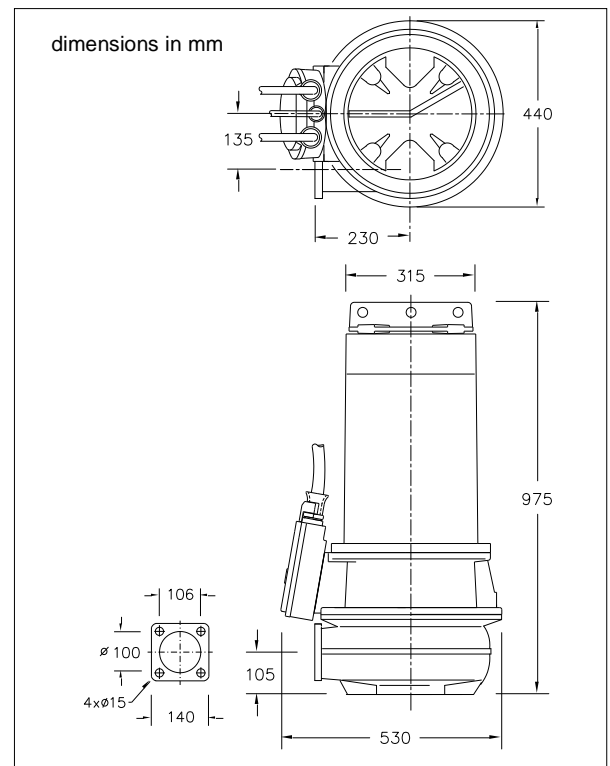
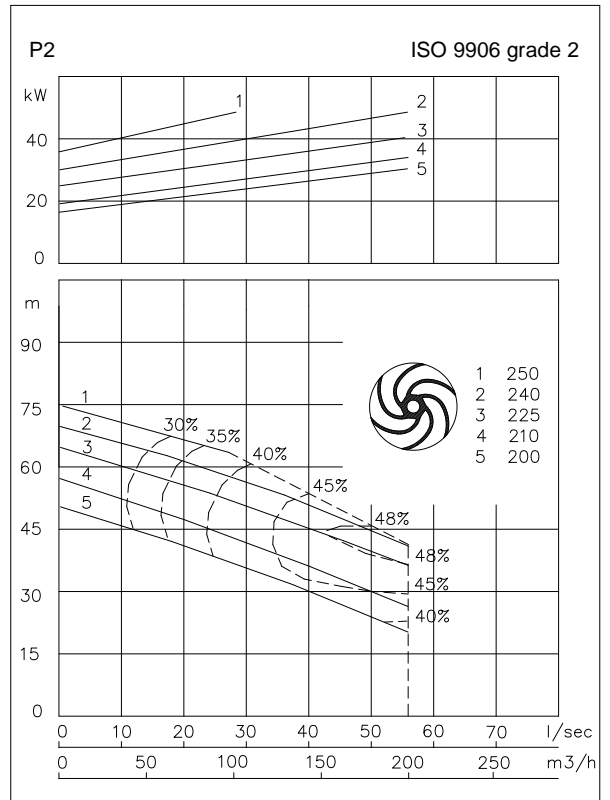
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW100
 (ODO) suction flange NW100

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	142.4	-	-	-	-
400	81.9	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
500	65.5	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 6.2 x rated current					
starting current YD start : 2.1 x rated current					
					* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 240 - 175 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 285 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 29.0 kW
 Rated electrical power 32.6 kW
 Nominal speed 2900 rpm
 Motor efficiency 89 %
 Power factor (cos phi) 0.92
 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)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump side Silicon carbide – silicon carbide
 Seal motor side Carbon - Ceramic
 Coating Two components polyurethane

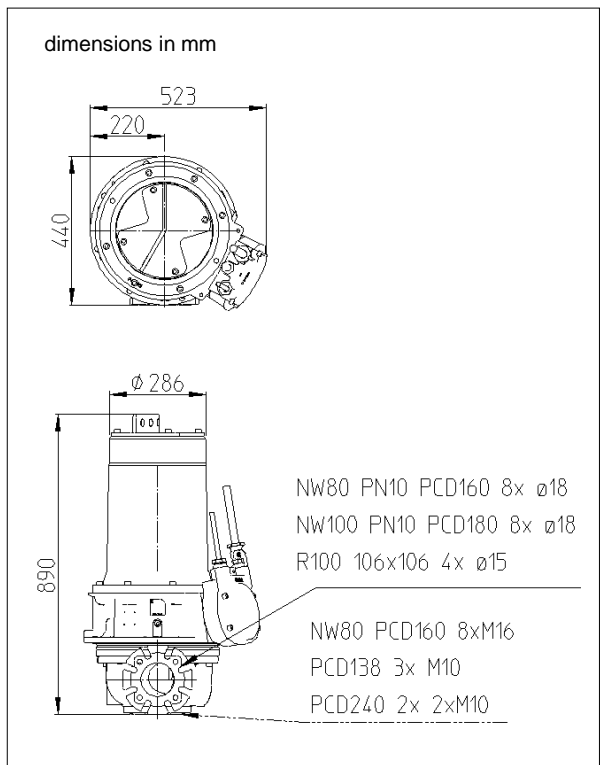
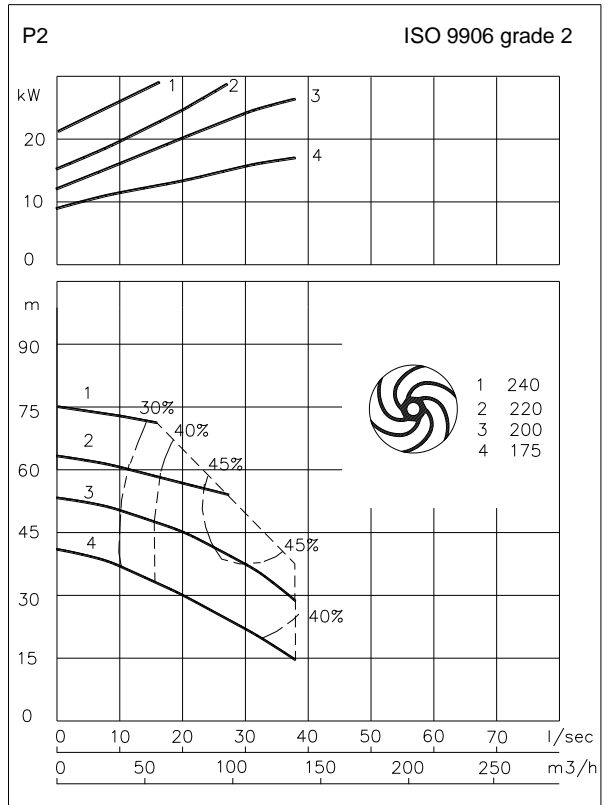
Installation options

Guide bar coupling OWK 100 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 
 Dry Installation Including cooling system (ODO) vertical or horizontal install. discharge flange NW100 suction flange NW100 

Optional

- Version with cooling system
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber

Connections



		Electrical cable size [mm ²]	
voltage	current	motor protection and/or water detector	
[V]*	[A]	direct start	star-delta start
230	88.9	-	2x4G16 + 4G2.5
400	51.1	4G16 + 4G2.5	2x4G6 + 4G2.5
500	40.9	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.9 x rated current			
starting current YD start : 1.9 x rated current			
			* other voltages on request

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

Pump data

Solids passage 80 mm
 Discharge/ Suction diameter 100 mm/ 80 mm
 Impeller type: Vortex
 Impeller diameter 252 - 180 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 310 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 52.7 kW
 Nominal speed 2955 rpm
 Motor efficiency 91 %
 Power factor (cos phi) 0.93
 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)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump side Silicon carbide – silicon carbide
 Seal motor side Carbon - Ceramic
 Coating Two components polyurethane

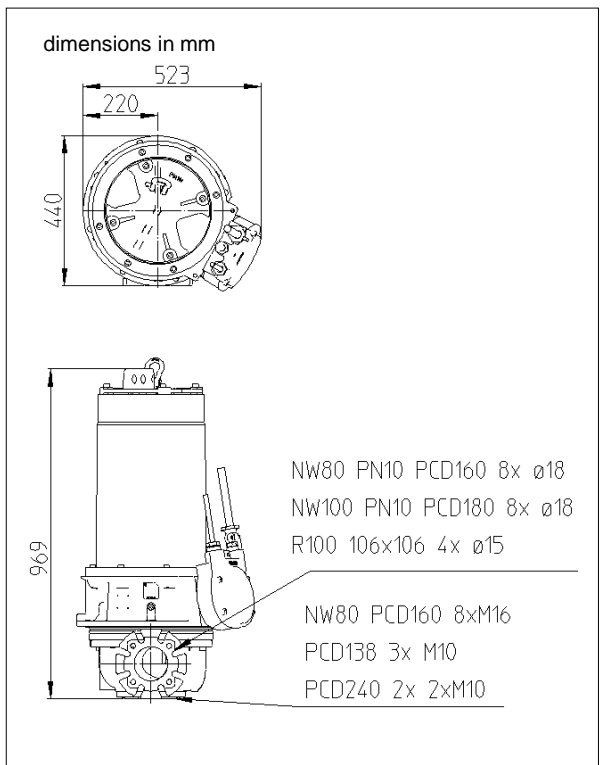
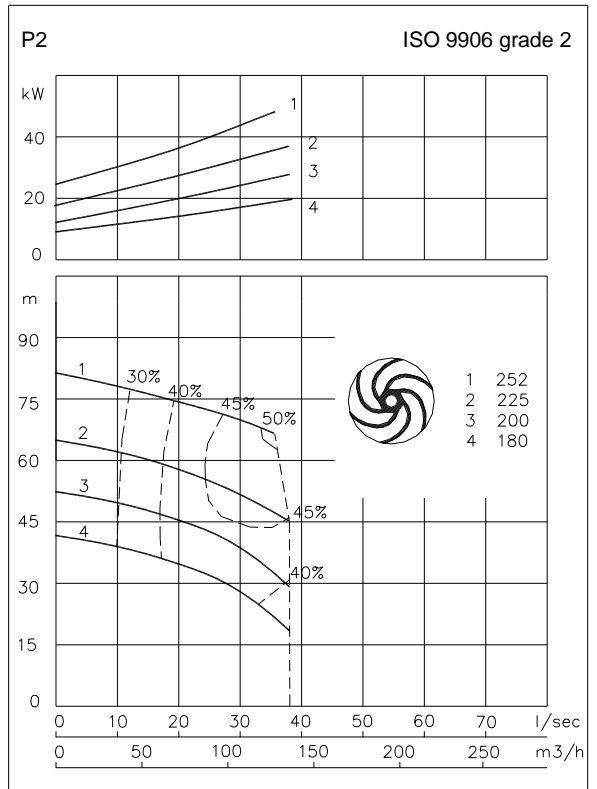
Installation options

Guide bar coupling OWK 100 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW100
 (ODO) suction flange NW100

Optional

- Version with cooling system
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber

Connections



voltage [V]*	current [A]	Electrical cable size [mm ²]	
		motor protection and/or water detector direct start	star-delta start
230	142.4	-	-
400	81.9	-	2x4G10 + 4G2.5
500	65.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 6.2 x rated current			
starting current YD start : 2.1 x rated current			
			* other voltages on request

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 285 - 220 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 250 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 9.0 kW
 Rated electrical power 10.7 kW
 Nominal speed 940 rpm
 Motor efficiency 84 %
 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

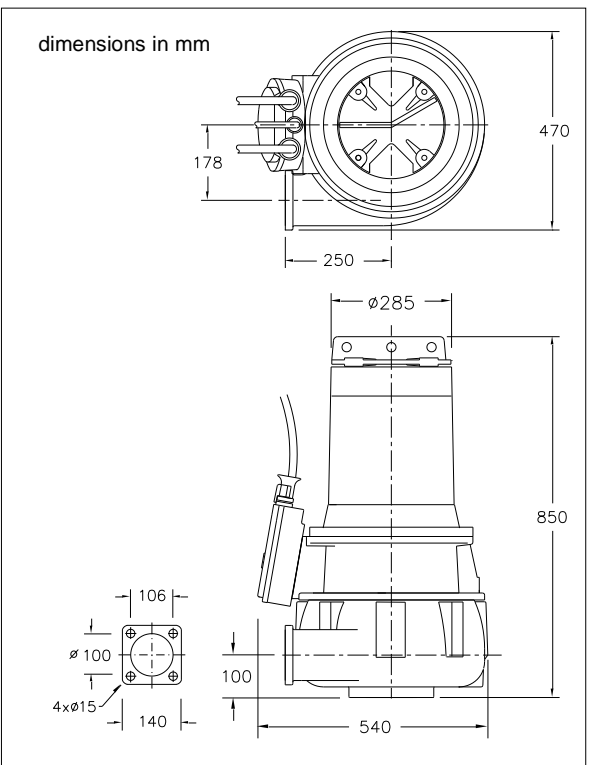
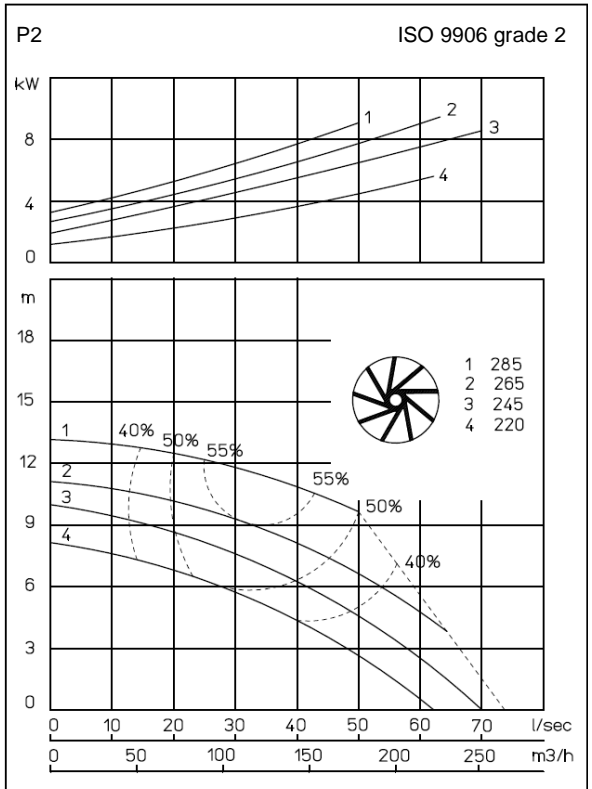
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install.
 Including cooling system discharge flange NW100 
 (ODO) suction flange NW125

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	30.9	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
400	17.8	7G2.5	7G2.5 + 4G2.5	7G2.5	7G2.5 + 4G2.5
500	14.2	7G2.5	7G2.5 + 4G2.5	7G2.5	7G2.5 + 4G2.5
starting current DOL start : 5.1 x rated current					
starting current YD start : 1.7 x rated current					
* other voltages on request					

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 360 - 255 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 260 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 13.0 kW
 Rated electrical power 15.1 kW
 Nominal speed 960 rpm
 Motor efficiency 86 %
 Power factor (cos phi) 0.83
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

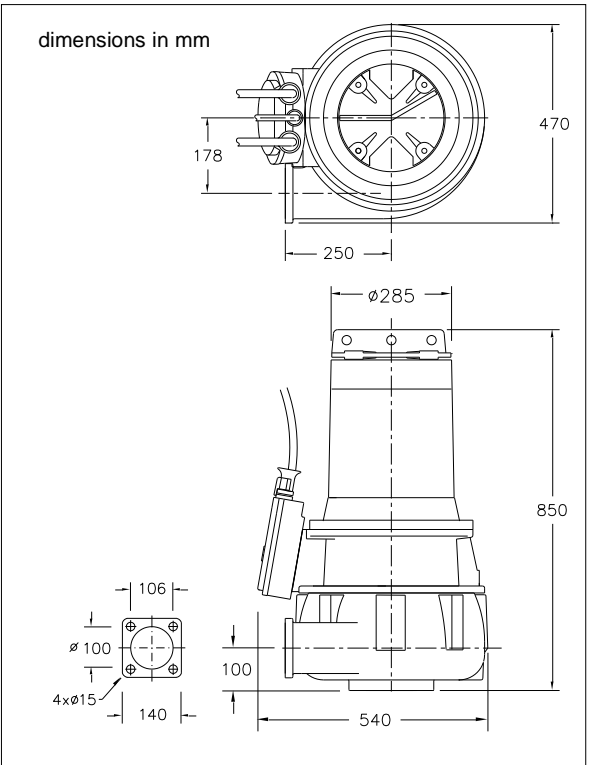
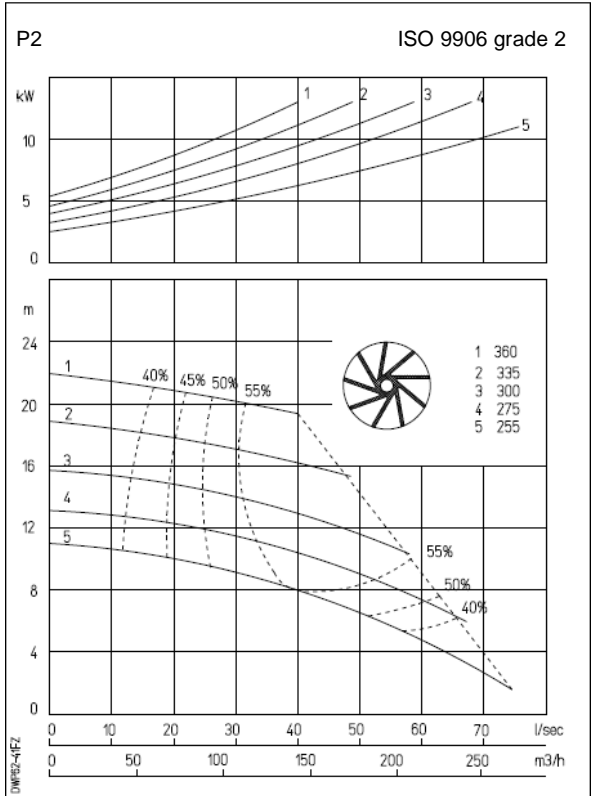
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 
 Dry Installation Including cooling system (ODO) vertical or horizontal install. discharge flange NW100 suction flange NW125 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	45.7	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
400	26.3	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
500	21.0	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
starting current DOL start : 5.1 x rated current					
starting current YD start : 1.7 x rated current					
					* other voltages on request

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 285 - 225 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 265 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 16.0 kW
 Rated electrical power 18.8 kW
 Nominal speed 1450 rpm
 Motor efficiency 85 %
 Power factor (cos phi) 0.78
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

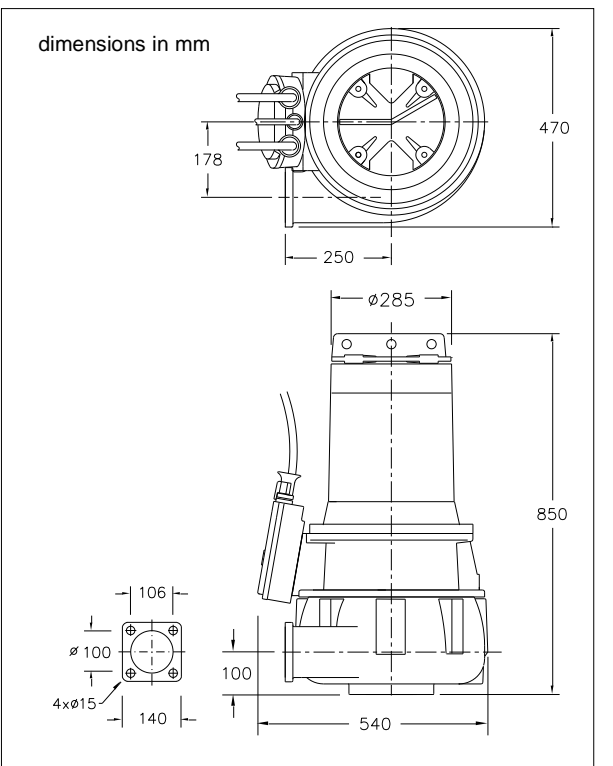
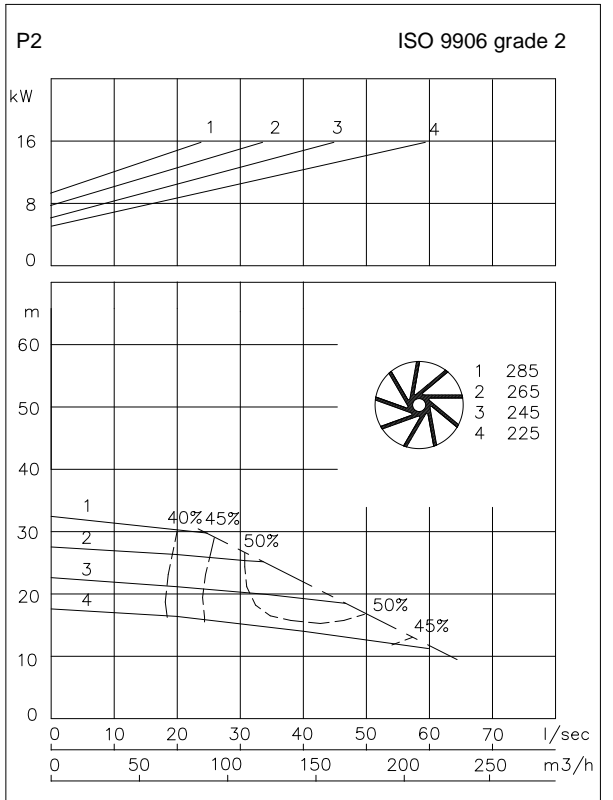
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install.
 Including cooling system discharge flange NW100 
 (ODO) suction flange NW125

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	60.6	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
400	34.8	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
500	27.9	4G6 + 4G2.5	7G2.5 + 4G2.5	4G6 + 4G2.5	7G2.5 + 4G2.5
starting current DOL start : 5.4 x rated current					
starting current YD start : 1.8 x rated current					
					* other voltages on request

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 315 - 225 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 280 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 22.0 kW
 Rated electrical power 26.2 kW
 Nominal speed 1430 rpm
 Motor efficiency 84 %
 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

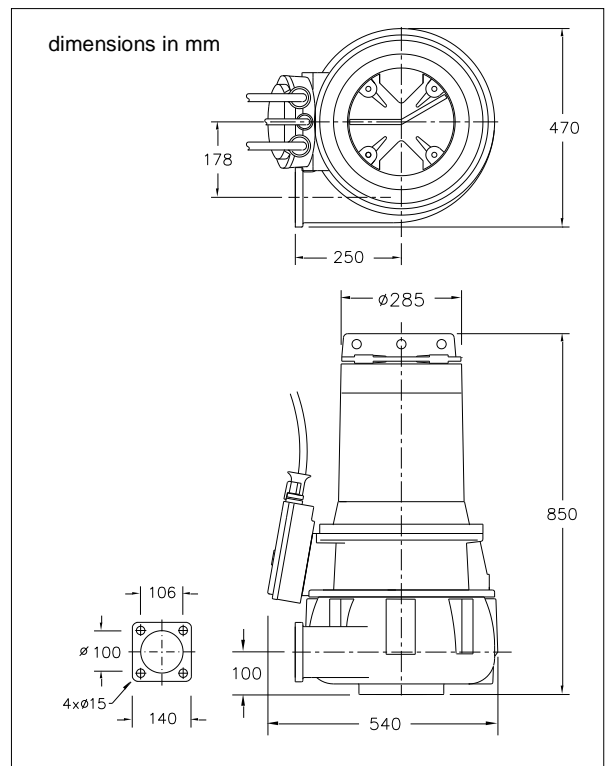
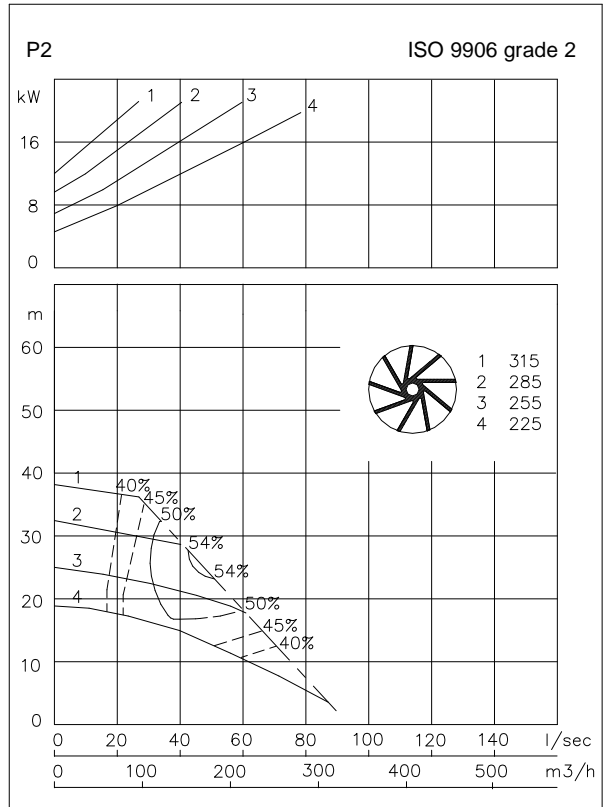
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding 100 mm hose connection or 
 Including support (VRS) G 4" threaded connection
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW100
 (ODO) suction flange NW125

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage	current	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	star-delta start	direct start	star-delta start
230	80.2	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
400	46.1	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
500	36.9	4G6 + 4G2.5	2x4G6 + 4G2.5	4G6 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.7 x rated current					
starting current YD start : 1.9 x rated current					
* other voltages on request					

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 335 - 255 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 300 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 34.0 kW
 Rated electrical power 39.5 kW
 Nominal speed 1440 rpm
 Motor efficiency 86 %
 Power factor (cos phi) 0.86
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

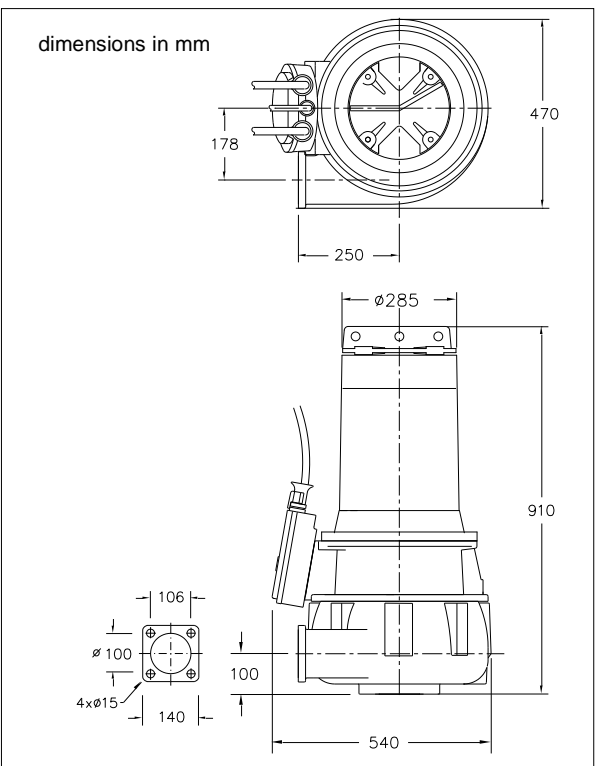
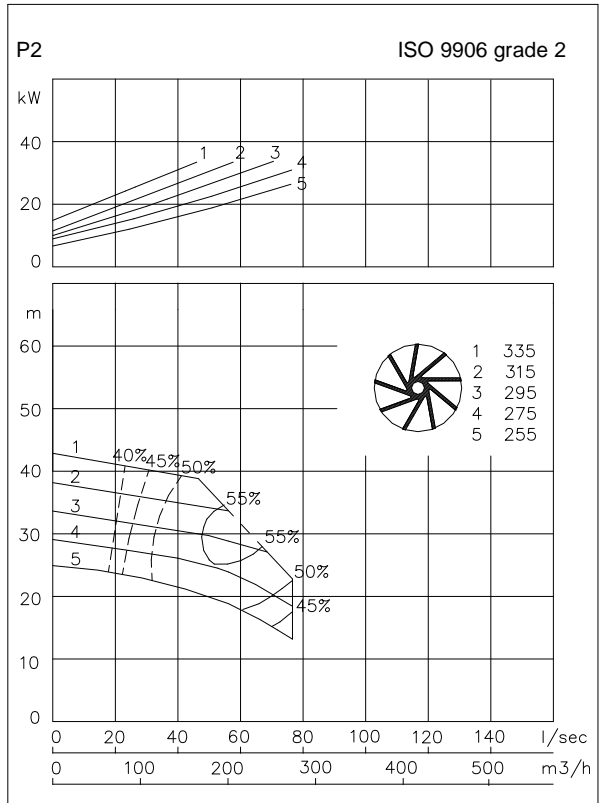
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 
 Dry Installation Including cooling system vertical or horizontal install. discharge flange NW100 suction flange NW125 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	115.5	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
400	66.4	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
500	53.1	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 4.5 x rated current					
starting current YD start : 1.5 x rated current					
					* other voltages on request

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

Pump data

Solids passage 100 mm
 Discharge/ Suction diameter 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter 360 - 275 mm
 Recommended min. flow 6 l/sec (21 m3/h)
 Weight 330 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 54.5 kW
 Nominal speed 1460 rpm
 Motor efficiency 88 %
 Power factor (cos phi) 0.86
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

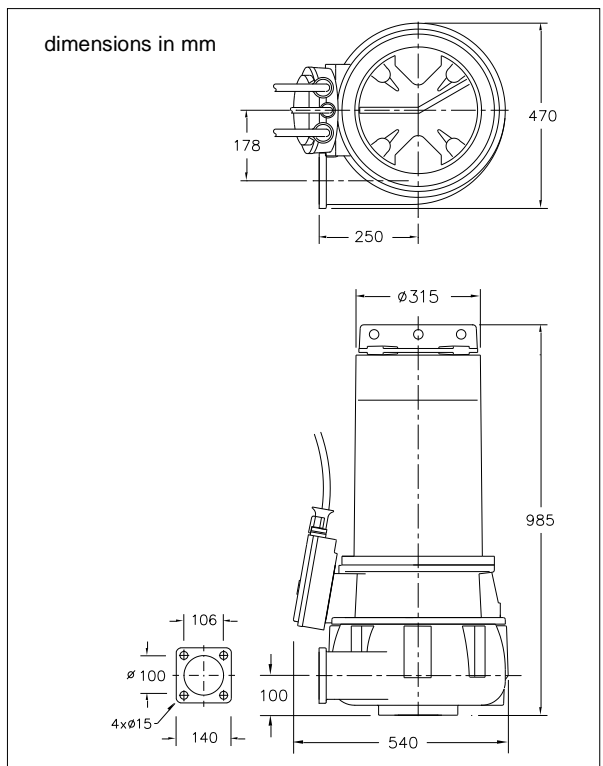
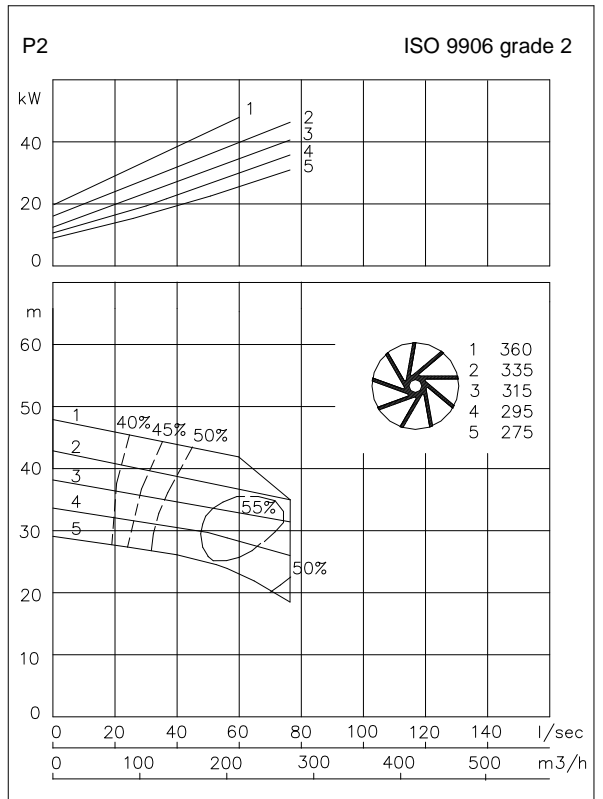
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 100 or OWK 150 
 Freestanding Including support (VRS) 100 mm hose connection or G 4" threaded connection 
 Dry Installation Including cooling system vertical or horizontal install. discharge flange NW100 suction flange NW125 

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	159.2	-	-	-	-
400	91.5	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
500	73.2	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
starting current DOL start : 4.4 x rated current					
starting current YD start : 1.5 x rated current					
					* other voltages on request

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

Pump data

Solids passage 150 mm
 Discharge/ Suction diameter 200 mm/ 200 mm
 Impeller type: Vortex
 Impeller diameter 305 - 250 mm
 Recommended min. flow 13 l/sec (47 m3/h)
 Weight 300 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 34.0 kW
 Rated electrical power 39.5 kW
 Nominal speed 1440 rpm
 Motor efficiency 86 %
 Power factor (cos phi) 0.86
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

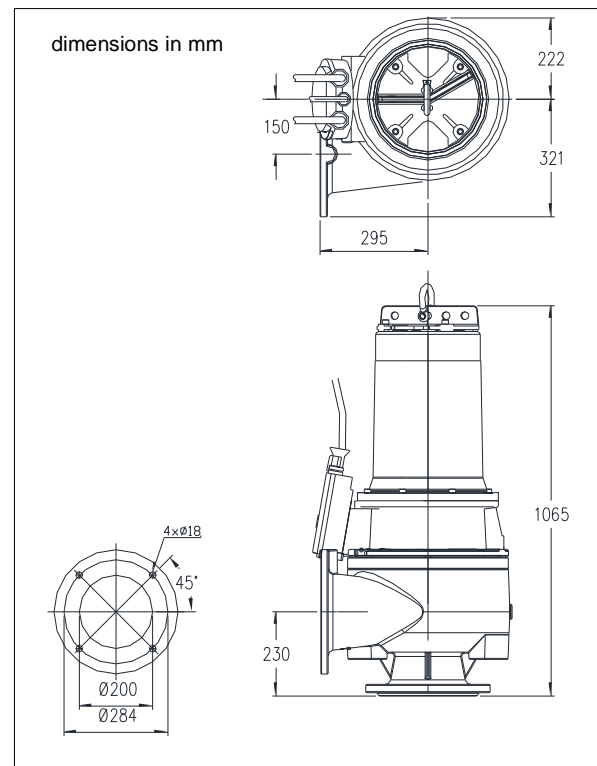
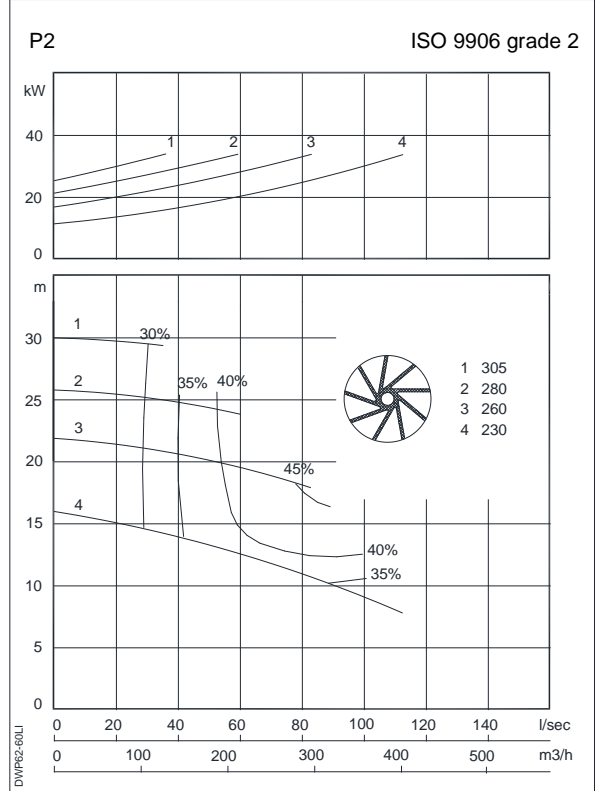
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 200 
 Freestanding 200 mm hose connection 
 Including support (VRS)
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW200
 (ODO) suction flange NW200

Optional

- Version with cooling system
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]	
		motor protection and/or water detector direct start	star-delta start
230	115.5	-	2x4G16 + 4G2.5
400	66.4	4G16 + 4G2.5	2x4G10 + 4G2.5
500	53.1	4G16 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 4.5 x rated current			
starting current YD start : 1.5 x rated current			

* other voltages on request

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

Pump data

Solids passage 150 mm
 Discharge/ Suction diameter 200 mm/ 200 mm
 Impeller type: Vortex
 Impeller diameter 305 - 230 mm
 Recommended min. flow 13 l/sec (47 m3/h)
 Weight 340 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 48.0 kW
 Rated electrical power 54.5 kW
 Nominal speed 1460 rpm
 Motor efficiency 88 %
 Power factor (cos phi) 0.86
 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) of neoprene (CR)
 Alt: viton (FPM)
 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

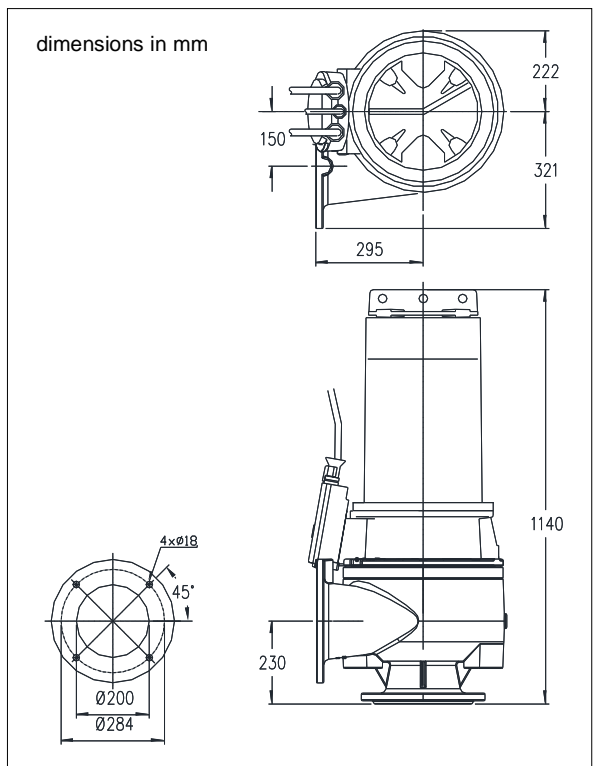
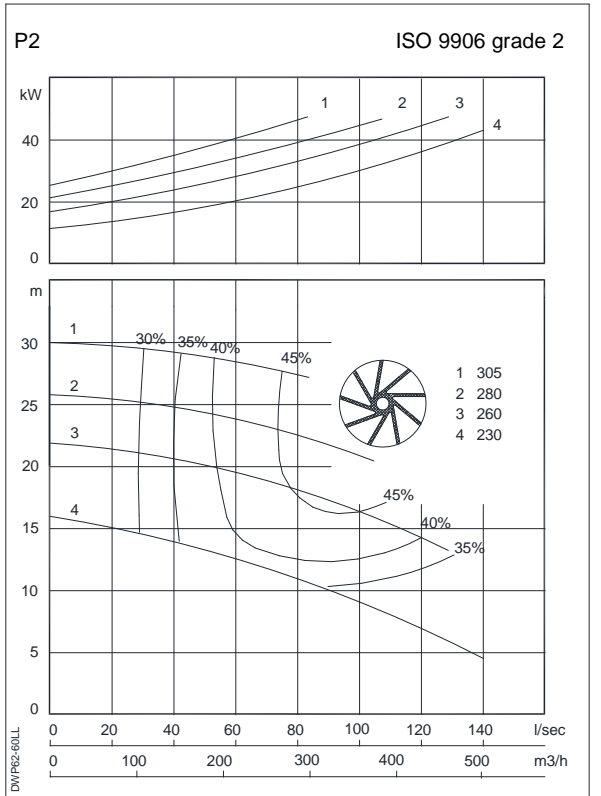
Guide bar coupling OWK 200 
 Freestanding 200 mm hose connection 
 Including support (VRS)
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW200
 (ODO) suction flange NW200

Optional

- Version with cooling system
- 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
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable

Connections

voltage	current	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	star-delta start	direct start	star-delta start
230	159.2	-	-	-	-
400	91.5	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
500	73.2	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
starting current DOL start : 4.4 x rated current					
starting current YD start : 1.5 x rated current					
					* other voltages on request



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

Pump data

Solids passage 150 mm
 Discharge/ Suction diameter 200 mm/ 200 mm
 Impeller type: Vortex
 Impeller diameter 305 - 250 mm
 Recommended min. flow 13 l/sec (47 m3/h)
 Weight 300 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 20.0 kW
 Rated electrical power 22.4 kW
 Nominal speed 960 rpm
 Motor efficiency 89 %
 Power factor (cos phi) 0.85
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

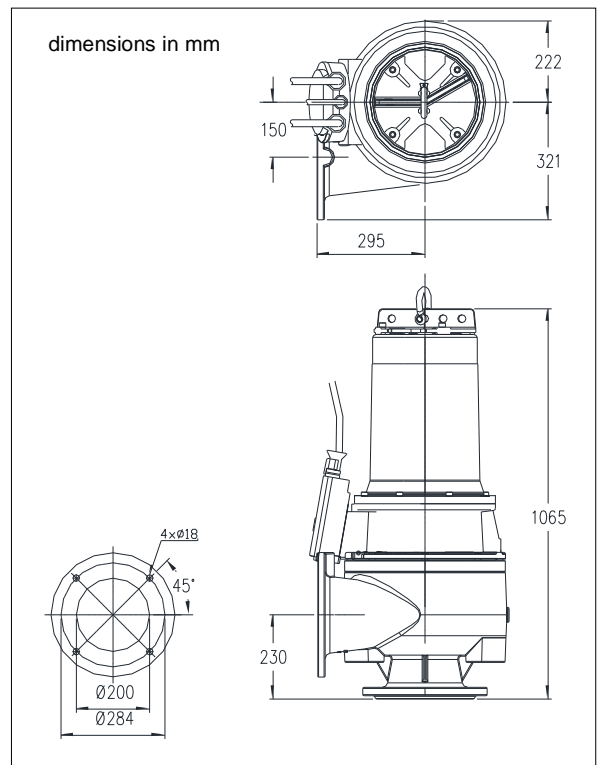
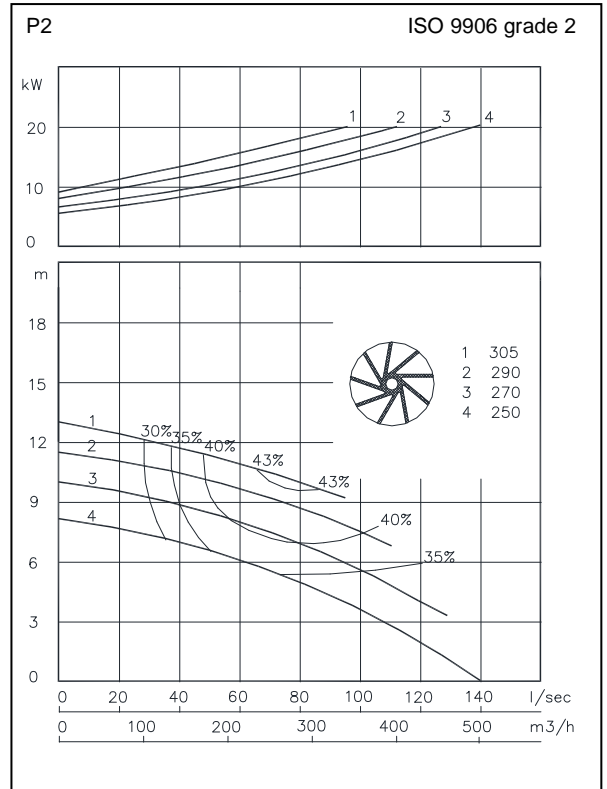
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 200 
 Freestanding 200 mm hose connection 
 Including support (VRS)
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW200
 (ODO) suction flange NW200

Optional

- Version with cooling system
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber



Connections

voltage [V]*	current [A]	Electrical cable size [mm ²]	
		motor protection and/or water detector direct start	star-delta start
230	66.4	4G16 + 4G2.5	2x4G10 + 4G2.5
400	38.2	4G10 + 4G2.5	2x4G6 + 4G2.5
500	30.5	4G6 + 4G2.5	7G2.5 + 4G2.5
starting current DOL start : 4.5 x rated current			
starting current YD start : 1.5 x rated current			
			* other voltages on request

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

Pump data

Solids passage 150 mm
 Discharge/ Suction diameter 200 mm/ 200 mm
 Impeller type: Vortex
 Impeller diameter 305 - 230 mm
 Recommended min. flow 13 l/sec (47 m3/h)
 Weight 340 kg




Motor

Mains: 50 c/s – 3 phase
 Rated shaft power 26.0 kW
 Rated electrical power 29.4 kW
 Nominal speed 975 rpm
 Motor efficiency 88.5 %
 Power factor (cos phi) 0.81
 Degree of protection IP 68
 Isolation class F (155°C)
 Max. water temperature 40°C
 Standard cable length 10 m

Materials

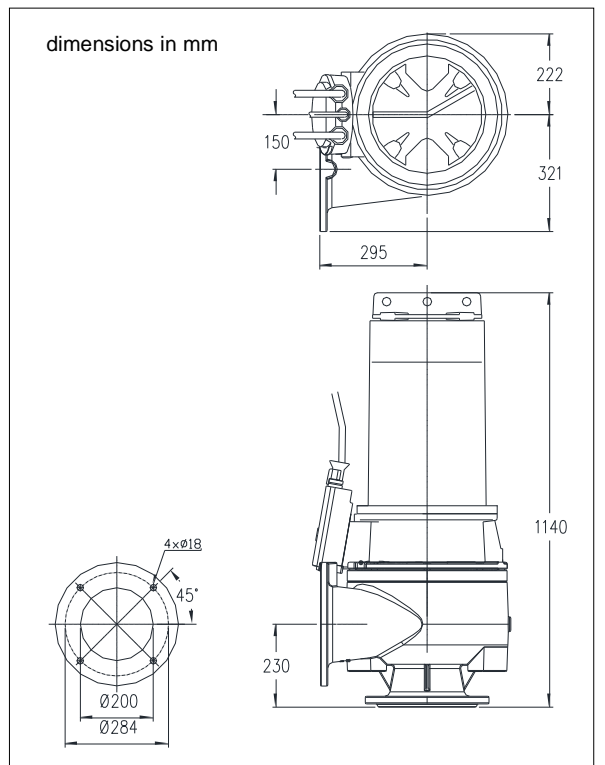
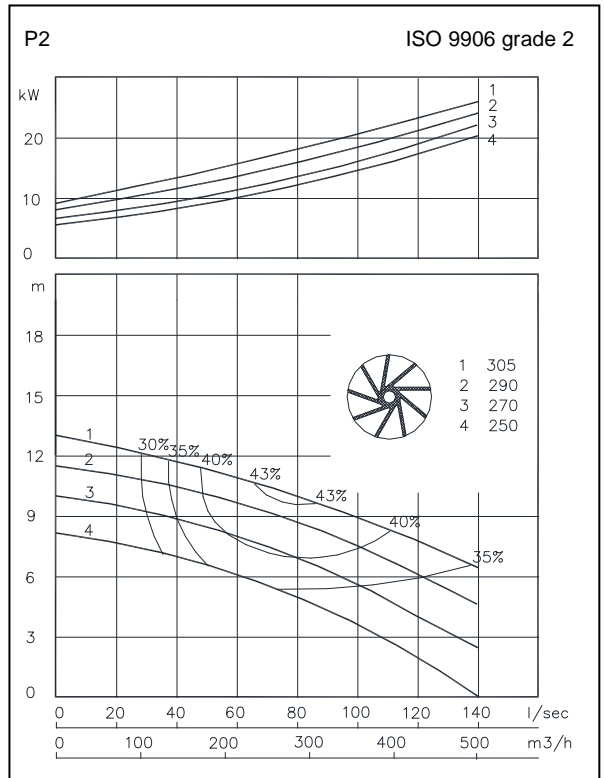
Pump casing Cast iron GG 25 (EN-GJL-250)
 Impeller S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit Cast iron GG 25 (EN-GJL-250)
 Shaft AISI 431
 Alt: AISI 316
 Bolts AISI 316
 Elastomers Nitrile (NBR) of neoprene (CR)
 Alt: viton (FPM)
 Electrical cable Neoprene (CR)
 Seal lubrication Oil
 Seal pump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

Installation options

Guide bar coupling OWK 200 
 Freestanding 200 mm hose connection 
 Including support (VRS)
 Dry Installation vertical or horizontal install. 
 Including cooling system discharge flange NW200
 (ODO) suction flange NW200

Optional

- Version with cooling system
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]	
		motor protection and/or water detector direct start	star-delta start
230	91	-	2x4G16 + 4G2.5
400	52.4	4G16 + 4G2.5	2x4G6 + 4G2.5
500	41.9	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 4.8 x rated current			
starting current YD start : 1.6 x rated current			

* other voltages on request