

Atlas Copco

Reliable submersible dewatering solutions

The WEDA submersible pump range (50Hz)



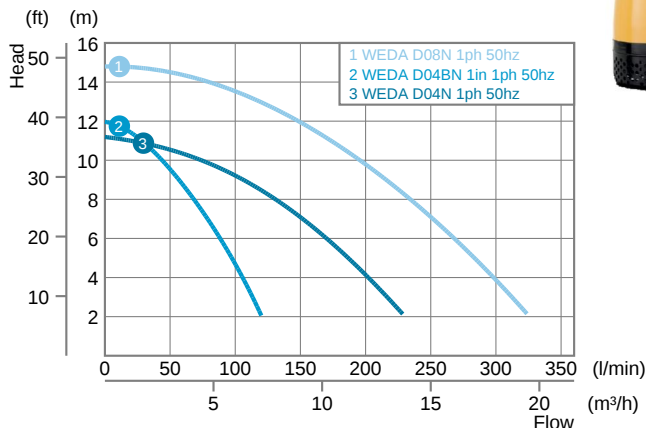
WEDA D range

- 1 Compact design and high power-to-weight-ratio for real transportability.
- 2 Built-in starter (DOL/Softstarter) and motor protection (D10 - D91): less equipment to move around. Plug and pump!
- 3 Dry running capability due to carefully over-sized motor and heat dissipating design.
- 4 Patented Wear Deflector Technology for as-new performance for longer periods of time.
- 5 Double mechanical seal in a stainless steel cartridge and robust o-ring design prevent water ingress and is easy to service.
- 6 External oil screws make sure that preventive maintenance gets done, instead of postponed until too late.
- 7 High-chrome cast-iron alloy wear-resistant impeller (55 HRC) and re-adjustable hydraulics to compensate for wear.



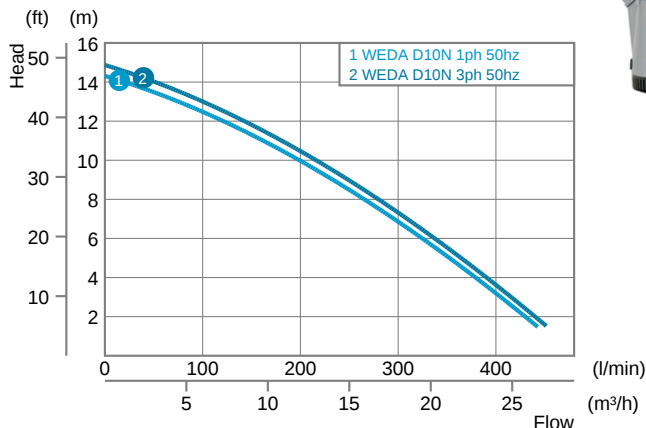
* some features and options on selected models only.

WEDA D04 - D08



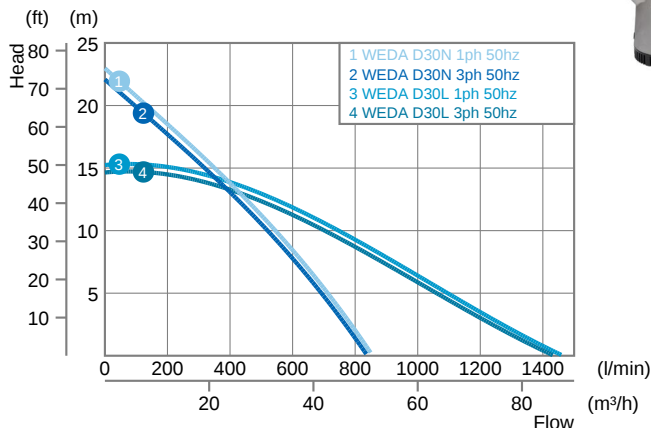
Dimensions	D04N	D04BN	D08N
Discharge connection	2" (50mm)	1" (25mm)	2" (50mm)
Height	340 mm	415 mm	358 mm
Width	182 mm	220 mm	183 mm
Diameter	182 mm	220 mm	183 mm
Weight	9 kg	9.5 kg	12.4 kg
Solids handling	7.5 mm (0.30")	4.5 mm (0.18")	7.5 mm (0.30")
Motor rating	D04N 1 ph	D04BN 1 ph	D08N 1ph
Power P ₂	0.4 kW	0.4 kW	0.75 kW
Power P ₁	0.65 kW	0.65 kW	1.2 kW
Rated current (230V)	2.8 A	2.8 A	5.2 A
Shaft speed	2900 r.p.m.	2900 r.p.m.	2900 r.p.m.

WEDA D10N



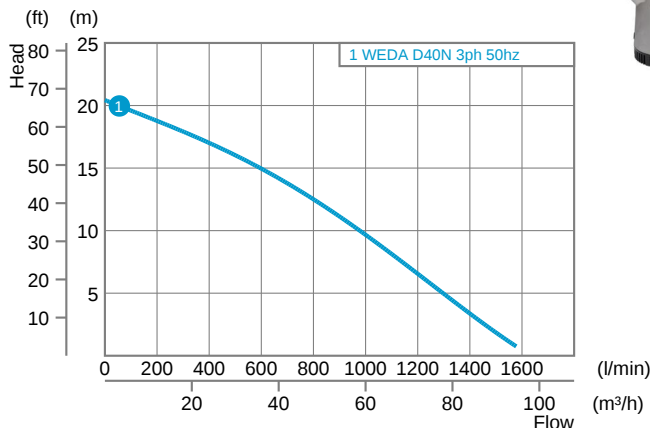
Weight and dimensions		N - Normal head	
Discharge connection		2" (50 mm)	
Height		395 / 470 (110V) mm	
Width		225 mm	
Diameter		185 mm	
Weight (excl. cable)		13.0 kg	
Solids handling, strainer hole		4.0 mm (0.16")	
Rating	1 ph	3 ph	Std cable
Power P ₁	1.6 kW	1.3 kW	
Power P ₂	1.0 kW	1.0 kW	
Shaft speed	2900 r.p.m.	2900 r.p.m.	
110 V	14.8 A	-	2.5mm ²
230 V	6.4 A	4.1 A	1.5mm ²
400 V	-	2.3 A	1.5mm ²
500 V	-	1.9 A	1.5mm ²
690 V	-	1.4 A	1.5mm ²

WEDA D30



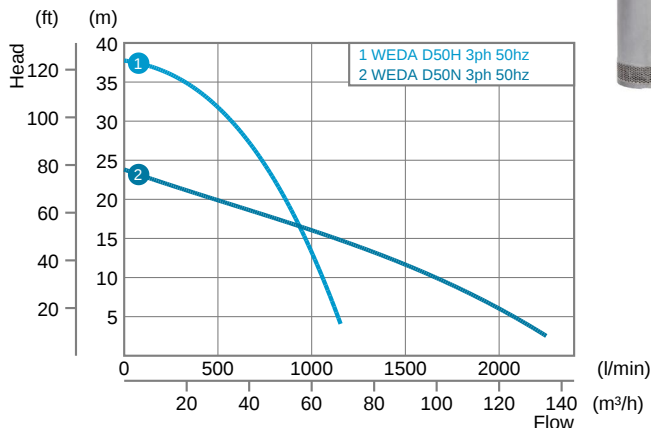
Weight and dimensions	N - Normal head		L - High flow
Discharge connection	3" (75 mm)		3" (75 mm)
Height	495 mm		525 mm
Width	290 mm		290 mm
Diameter	220 mm		220 mm
Weight (excl. cable)	20 kg		20 kg
Solids handling, strainer hole	7.0 mm (0.28")		7.0 mm (0.28")
Rating	1 ph	3 ph	Std cable 1/3ph
Power P ₁	2.6 kW	2.6 kW	
Power P ₂	2.0 kW	2.0 kW	
Shaft speed	2900 r.p.m.	2900 r.p.m.	
230 V	14.1 A	8.0 A	2.5 / 1.5mm ²
400 V	-	4.6 A	1.5mm ²
500 V	-	3.7 A	1.5mm ²
690 V	-	2.7 A	1.5mm ²

WEDA D40



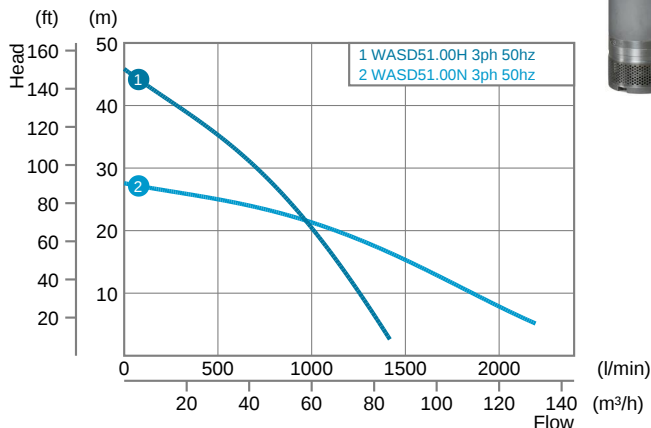
Weight and dimensions		N - Normal head
Discharge connection		3" (75 mm)
Height		525 mm
Width		290 mm
Diameter		220 mm
Weight (excl. cable)		25 kg
Solids handling, strainer hole		7.0 mm (0.28")
Rating	3 ph	Std cable
Power P ₁	3.6 kW	
Power P ₂	3.0 kW	
Shaft speed	2900 r.p.m.	
230 V	10.5 A	1.5mm ²
400 V	6.1 A	1.5mm ²
500 V	4.8 A	1.5mm ²
690 V	3.5 A	1.5mm ²

WEDA D50



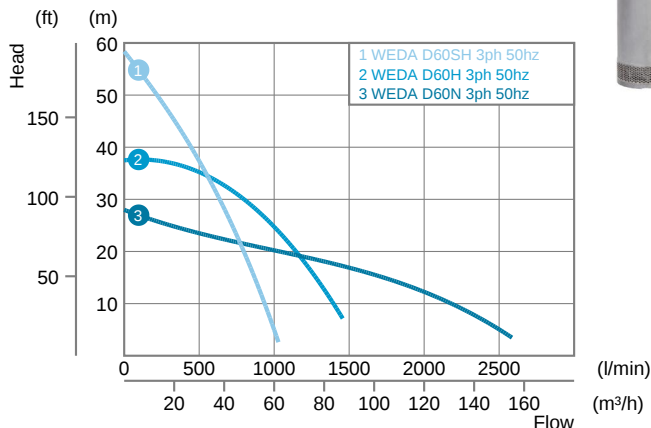
Weight and dimensions	N - Normal head	H - High head
Discharge connection	4" (100 mm)	3" (75 mm)
Height	720 mm	720 mm
Width	330 mm	302 mm
Diameter	278 mm	278 mm
Weight (excl. cable)	55 kg	55 kg
Solids handling, strainer hole	8.0 mm (0.31")	8.0 mm (0.31")
Rating	3 ph	Std cable
Power P ₁	6.7 kW	
Power P ₂	5.6 kW	
Shaft speed	2900 r.p.m.	
230 V	18.4 A	4mm ²
400 V	10.6 A	2.5mm ²
500 V	8.5 A	2.5mm ²
690 V	6.1 A	2.5mm ²
1000 V	4.2 A	

WEDA D51



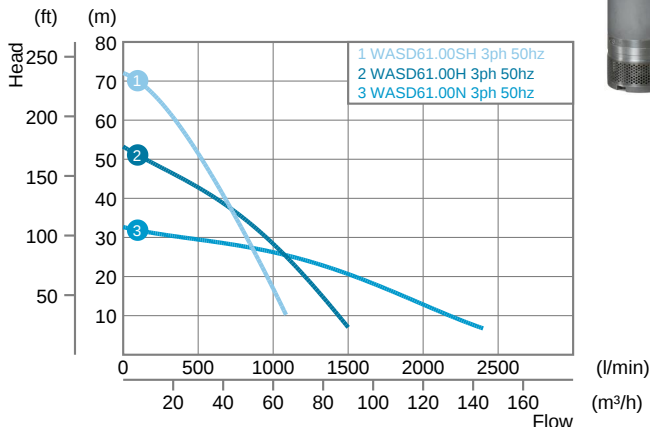
Weight and dimensions	N - Normal head	H - High head
Discharge connection	4" (100 mm)	3" (75mm)
Height	780 mm	780 mm
Width	330 mm	305 mm
Diameter	282 mm	282 mm
Weight (excl. cable)	59 kg	62 kg
Solid handling, strainer hole	8.0 mm (0.31")	8.0 mm (0.31")
Rating	3 ph	Std cable
Power P ₁	6.7 kW	
Power P ₂	5.6 kW	
Shaft speed	2900 r.p.m.	
400 V	10.6 A	2.5mm ²
500 V	8.5 A	2.5mm ²
690 V	6.1 A	2.5mm ²
1000 V	4.2 A	

WEDA D60



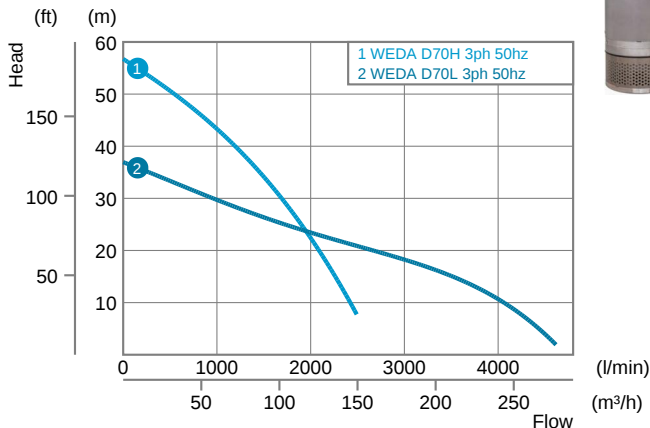
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	4" (100 mm)	3" (75 mm)	3" (75 mm)
Height	760 mm	760 mm	760 mm
Width	330 mm	302 mm	302 mm
Diameter	278 mm	278 mm	278 mm
Weight (excl. cable)	61 kg	61 kg	62 kg
Solid handling, strainer hole	8.0 mm (0.31")	8.0 mm (0.31")	8.0 mm (0.31")
Rating	3 ph		Std cable
Power P ₁	8.8 kW		
Power P ₂	7.5 kW		
Shaft speed	2900 r.p.m.		
230 V	24 A		4mm ²
400 V	14.1 A		2.5mm ²
500 V	11.2 A		2.5mm ²
690 V	8.2 A		2.5mm ²
1000 V	5.6 A		

WEDA D61



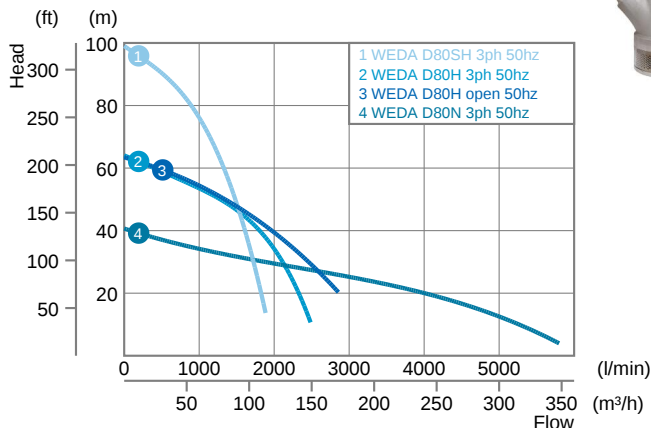
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	4" (100 mm)	3" (75mm)	3" (75mm)
Height	810 mm	810 mm	900 mm
Width	330 mm	305 mm	305 mm
Diameter	282 mm	282 mm	282 mm
Weight (excl. cable)	67 kg	69 kg	75 kg
Solid handling, strainer hole	8.0 mm (0.31")	8.0 mm (0.31")	8.0 mm (0.31")
Rating	3 ph		Std cable
Power P ₁	8.7 kW		
Power P ₂	7.5 kW		
Shaft speed	2900 r.p.m.		
400 V	14.1 A		2.5mm ²
500 V	11.2 A		2.5mm ²
690 V	8.2 A		2.5mm ²
1000 V	5.6 A		

WEDA D70



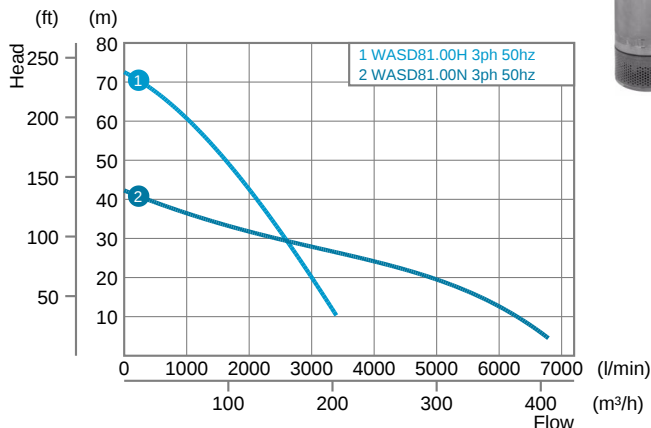
Weight and dimensions	L - High flow	H - High head
Discharge connection	6" (150 mm)	4" (100mm)
Height	943 mm	943 mm
Width	415 mm	393 mm
Diameter	370 mm	370 mm
Weight (excl. cable)	110 kg	110 kg
Solid handling, strainer hole	10.0 mm (0.39")	10.0 mm (0.39")
Rating	3 ph	Std cable
Power P ₁	13.8 kW	
Power P ₂	12 kW	
Shaft speed	2900 r.p.m.	
400 V	23 A	4mm ²
500 V	18.7 A	2.5mm ²
690 V	13.6 A	2.5mm ²
1000 V	9.4 A	

WEDA D80



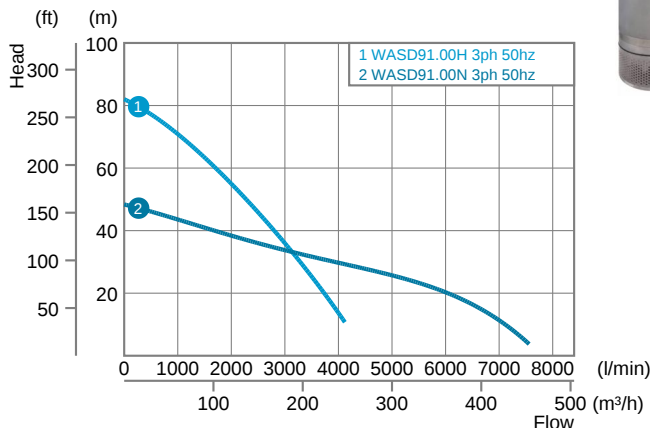
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	6" (150 mm)	4" (100 mm)	3" (75 mm)
Height	980 mm	980 mm	1060 mm
Width	690 mm	665 mm	650 mm
Diameter	530 mm	530 mm	530 mm
Weight (excl. cable)	175 kg	175 kg	215 kg
Solid handling, strainer hole	12.0 mm (0.47")	12.0 mm (0.47")	12.0 mm (0.47")
Rating	3 ph		Std cable
Power P ₁	22 kW		
Power P ₂	20 kW		
Shaft speed	2900 r.p.m.		
400 V	39 A		10mm ²
500 V	31 A		6mm ²
690 V	22 A		6mm ²
1000 V	15.5 A		

WEDA D81



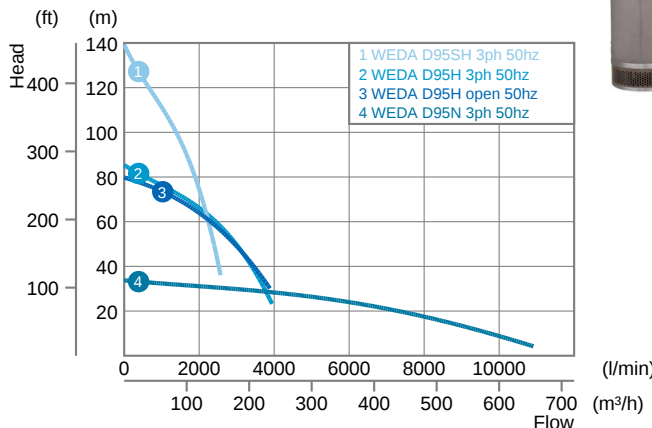
Weight and dimensions	N - Normal head	H - High head
Discharge connection	6" (150 mm)	4" (100mm)
Height	1075 mm	1075 mm
Width	465 mm	440 mm
Diameter	425 mm	425 mm
Weight (excl. cable)	190 kg	190 kg
Solid handling, strainer hole	12.0 mm (0.47")	12.0 mm (0.47")
Rating	3 ph	Std cable
Power P ₁	22 kW	
Power P ₂	20 kW	
Shaft speed	2900 r.p.m.	
400 V	39 A	10mm ²
500 V	31 A	4mm ²
690 V	22 A	4mm ²
1000 V	15.5 A	

WEDA D91



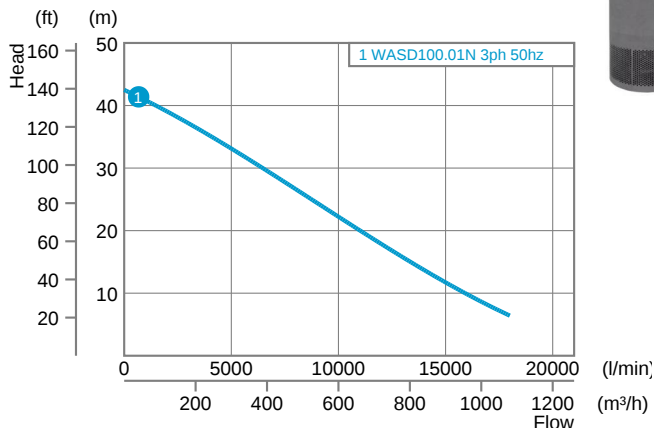
Weight and dimensions	N - Normal head	H - High head
Discharge connection	6" (150 mm)	4" (100mm)
Height	1125 mm	1125 mm
Width	465 mm	440 mm
Diameter	425 mm	425 mm
Weight (excl. cable)	205 kg	205 kg
Solid handling, strainer hole	12.0 mm (0.47")	12.0 mm (0.47")
Rating	3 ph	Std cable
Power P ₁	30 kW	
Power P ₂	27 kW	
Shaft speed	2900 r.p.m.	
400 V	48 A	10mm ²
500 V	39 A	6mm ²
690 V	28 A	4mm ²
1000 V	19.3 A	

WEDA D95



Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	8" (200 mm)	4" (100 mm)	4" (100 mm)
Height	1330 mm	1330 mm	1350 mm
Width	460 mm	460 mm	465 mm
Diameter	460 mm	460 mm	465 mm
Weight (excl. cable)	265 kg	265 kg	300 kg
Solid handling, strainer hole	16.0 mm (0.63")	12.0 mm (0.47")	12.0 mm (0.47")
Rating	3 ph		Std cable
Power P ₁	43 kW		
Power P ₂	37 kW		
Shaft speed	2900 r.p.m.		
400 V	69 A		25mm ²
500 V	55 A		16mm ²
690 V	40 A		10mm ²
1000 V	28 A		

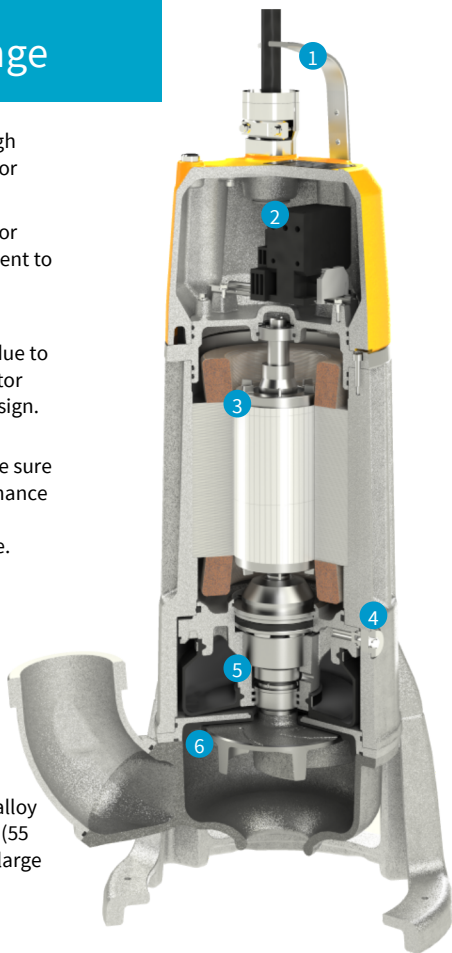
WEDA D100



Weight and dimensions		N - Normal head
Discharge connection	10" (250 mm) / EN1092-1/BS4504 PN10 DN250	
Height	1412 mm	
Width	650 mm	
Diameter	600 mm	
Weight (excl. cable)	520 kg	
Solid handling, strainer hole	12.0 mm (0.47")	
Rating	3 ph	Std cable
Power P ₁	65 kW	
Power P ₂	60 kW	
Shaft speed	1450 r.p.m.	
400 V (YD)	108 A	2 x 16mm ²
400 V (DOL)	108 A	35mm ²
500 V (YD)	85 A	2 x 10mm ²
500 V (DOL)	85 A	25mm ²
690 V (DOL)	63 A	16mm ²
1000 V	43 A	

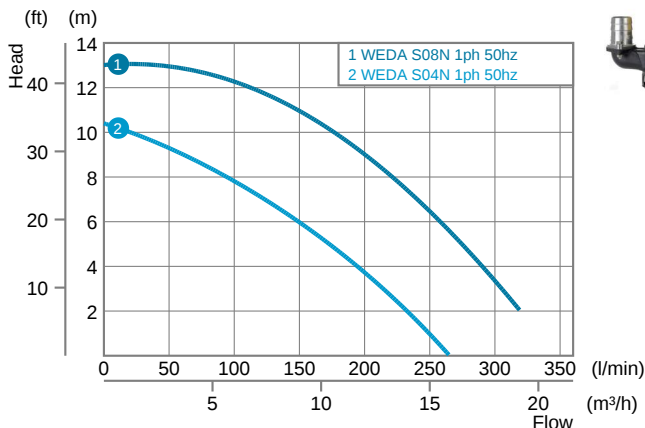
WEDA S range

- 1 Compact design and high power-to-weight-ratio for real transportability.
- 2 Built-in starter and motor protection: less equipment to move around. Plug and pump!
- 3 Dry running capability due to carefully over-sized motor and heat dissipating design.
- 4 External oil screws make sure that preventive maintenance gets done, instead of postponed until too late.
- 5 Double mechanical seal running in an oil bath and robust o-ring design prevent water ingress and is easy to service.
- 6 High-chrome cast-iron alloy wear-resistant impeller (55 HRC) of vortex-type for large solids passage.



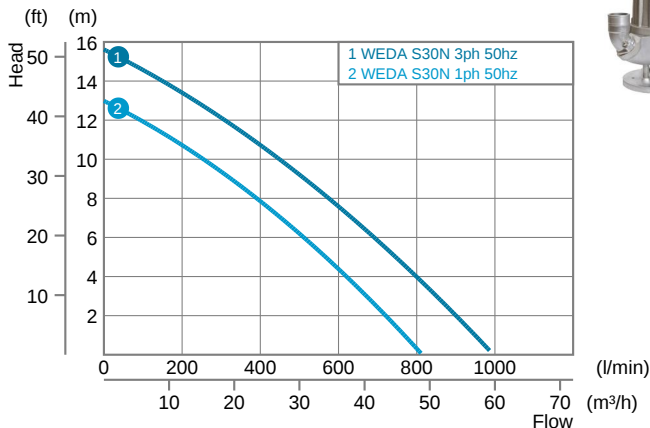
* some features and options on selected models only.

WEDA S04 - S08



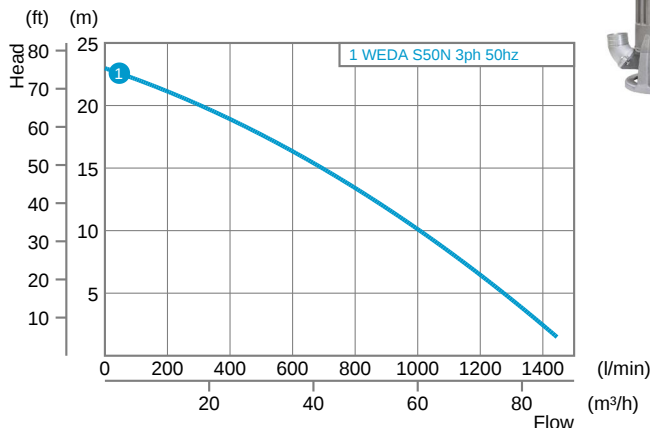
Dimensions	S04N	S08N
Discharge connection	2" (50mm)	2" (50mm)
Height	375 mm	416 mm
Width	277 mm	277 mm
Diameter	241 mm	241 mm
Weight	11 kg	13 kg
Solids handling	25.0 mm (1.0")	25.0 mm (1.0")
Motor rating	S04N 1 ph	S08N 1 ph
Power P ₂	0.4 kW	0.75 kW
Power P ₁	0.65 kW	1.2 kW
Rated current (230V)	2.8 A	5.2 A
Shaft speed	2900 r.p.m.	2900 r.p.m.

WEDA S30



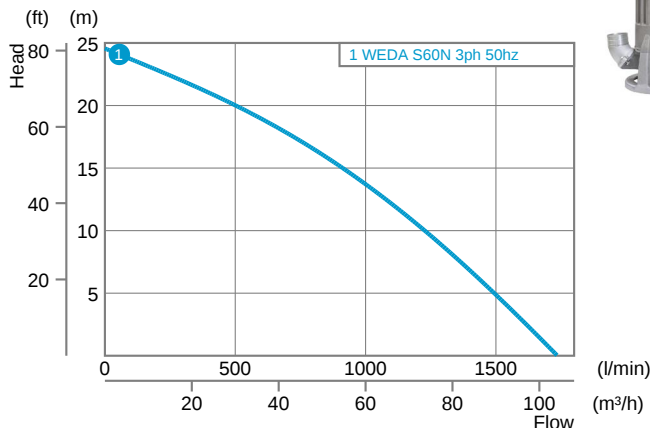
Weight and dimensions		N - Normal head	
Discharge connection		3" (75 mm)	
Height		620 mm	
Width		326 mm	
Diameter		250 mm	
Weight (excl. cable)		25 kg	
Solid handling		50.0 mm (2.0")	
Rating	1 ph	3 ph	Std cable 1/3ph
Power P ₁	2.4 kW	3.0 kW	
Power P ₂	1.8 kW	2.5 kW	
Shaft speed	2900 r.p.m.	2900 r.p.m.	
230 V	12.7 A	8.8 A	2.5 / 1.5mm ²
400 V	-	5.0 A	1.5mm ²
500 V	-	4.0 A	1.5mm ²
690 V	-	2.9 A	1.5mm ²

WEDA S50



Weight and dimensions		N - Normal head
Discharge connection		4" (100 mm)
Height		810 mm
Width		450 mm
Diameter		350 mm
Weight (excl. cable)		59 kg
Solid handling		50.0 mm (2.0")
Rating	3 ph	Std cable
Power P ₁	5.7 kW	
Power P ₂	4.8 kW	
Shaft speed	2900 r.p.m.	
230 V	15.8 A	2.5mm ²
400 V	9.1 A	2.5mm ²
500 V	7.3 A	2.5mm ²
690 V	5.3 A	2.5mm ²

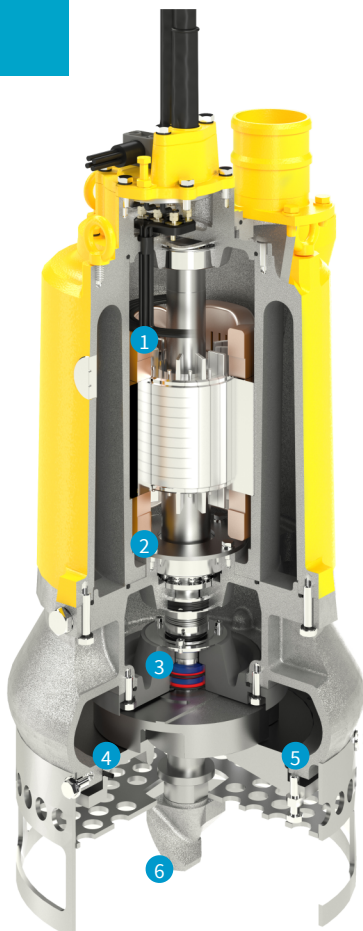
WEDA S60



Weight and dimensions		N - Normal head
Discharge connection		4" (100 mm)
Height		870 mm
Width		450 mm
Diameter		350 mm
Weight (excl. cable)		65 kg
Solid handling		50.0 mm (2.0")
Rating	3 ph	Std cable
Power P ₁	8.1 kW	
Power P ₂	6.9 kW	
Shaft speed	2900 r.p.m.	
230 V	22 A	4mm ²
400 V	12.9 A	2.5mm ²
500 V	10.3 A	2.5mm ²
690 V	7.5 A	2.5mm ²

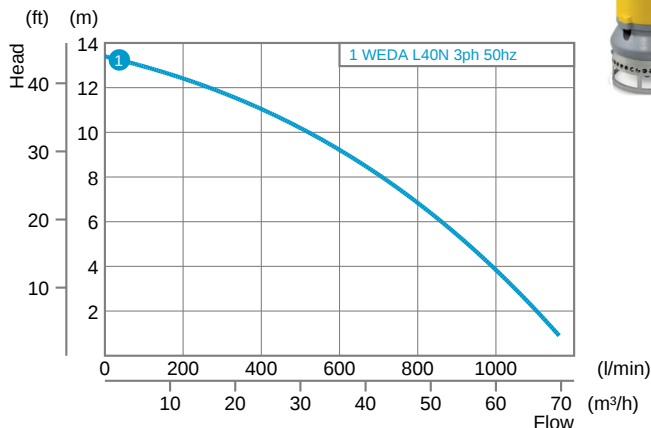
WEDA L range

- 1 Heavy-duty motor (class H) with thermal contacts for overload protection.
- 2 Heavy-duty bearings to handle typical slurry pumping loads.
- 3 Mechanical- and labyrinth-type shaft seals optimized for slurry applications.
- 4 High-chrome abrasion resistant impeller and wear plates.
- 5 Solids handling up to 60 mm (2.4 in).
- 6 High-chrome agitator to get and keep solids in suspension increasing output.



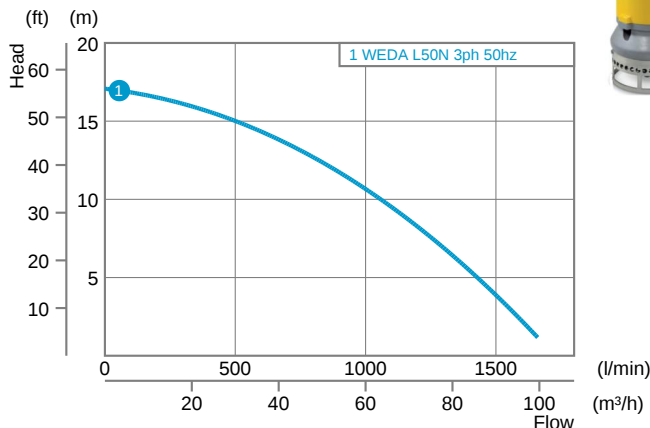
* some features and options on selected models only.

WEDA L40



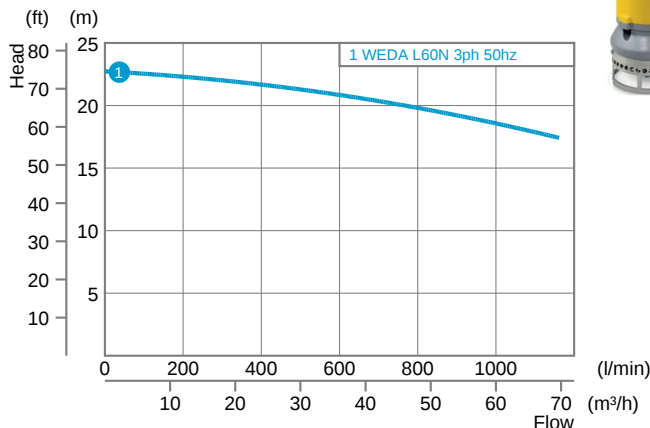
Weight and dimensions	Weda L40N
Discharge connection	3" (75mm) hose
Solids handling	20 mm
Weight (excl. cable)	185 kg
Height	793 mm
Width	388 mm
Diameter	337 mm
Minimum immersion	350 mm
Rating	3 ph
Power P ₁	4.5 kW
Power P ₂	3.7 kW
Shaft speed	1450 r.p.m.
400 V	8.7 A

WEDA L50



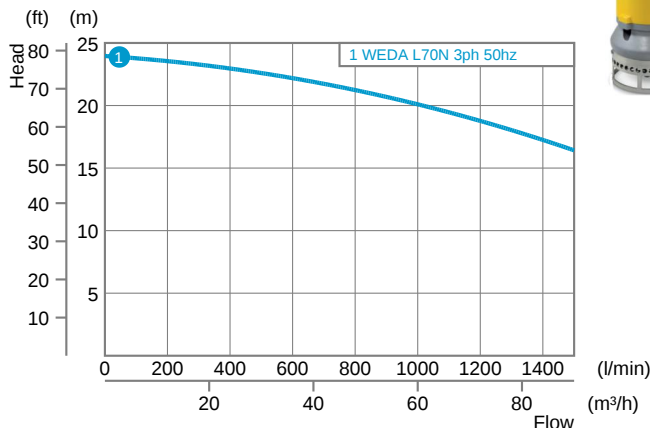
Weight and dimensions	Weda L50N
Discharge connection	4" (100 mm) hose
Solids handling	25 mm
Weight (excl. cable)	260 kg
Height	914 mm
Width	435 mm
Diameter	413 mm
Minimum immersion	380 mm
Rating	3 ph
Power P ₁	6.8 kW
Power P ₂	5.5 kW
Shaft speed	1450 r.p.m.
400 V	12.7 A

WEDA L60



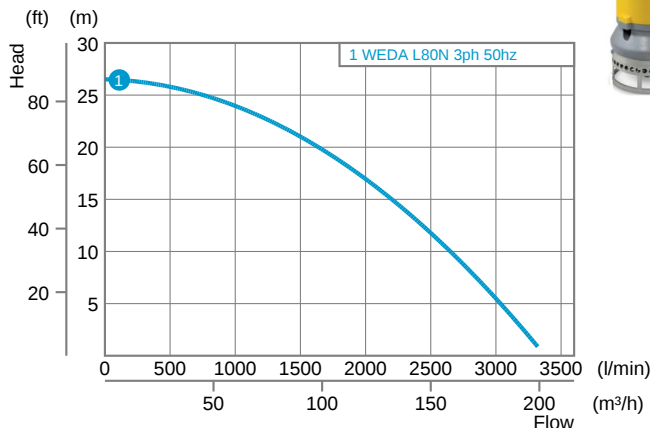
Weight and dimensions	Weda L60N
Discharge connection	4" (100 mm) hose
Solids handling	25 mm
Weight (excl. cable)	260 kg
Height	914 mm
Width	435 mm
Diameter	413 mm
Minimum immersion	380 mm
Rating	3 ph
Power P ₁	10.4 kW
Power P ₂	9 kW
Shaft speed	1450 r.p.m.
400 V	18.8 A

WEDA L70



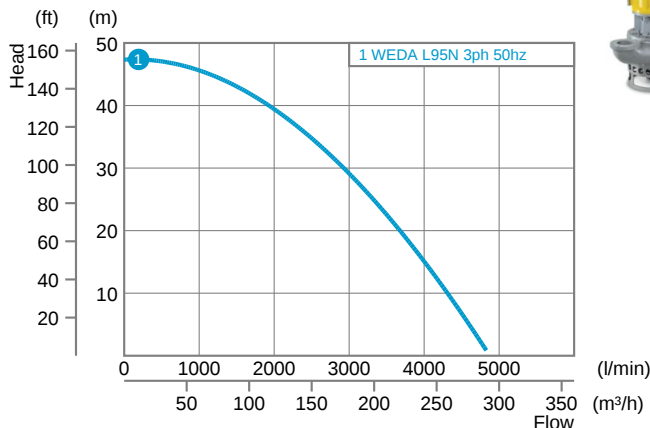
Weight and dimensions	Weda L70N
Discharge connection	4" (100 mm) hose
Solids handling	25 mm
Weight (excl. cable)	270 kg
Height	914 mm
Width	435 mm
Diameter	413 mm
Minimum immersion	380 mm
Rating	3 ph
Power P ₁	12.8 kW
Power P ₂	11 kW
Shaft speed	1450 r.p.m.
400 V	23.3 A

WEDA L80



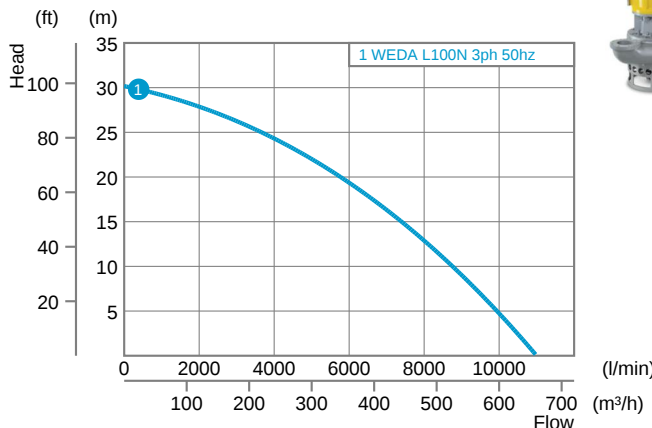
Weight and dimensions	Weda L80N
Discharge connection	4" (100 mm) DN flange
Solids handling	25 mm
Weight (excl. cable)	310 kg
Height	1080 mm
Width	580 mm
Diameter	495 mm
Minimum immersion	412 mm
Rating	3 ph
Power P ₁	16.1 kW
Power P ₂	15 kW
Shaft speed	1450 r.p.m.
400 V	29.1 A

WEDA L95



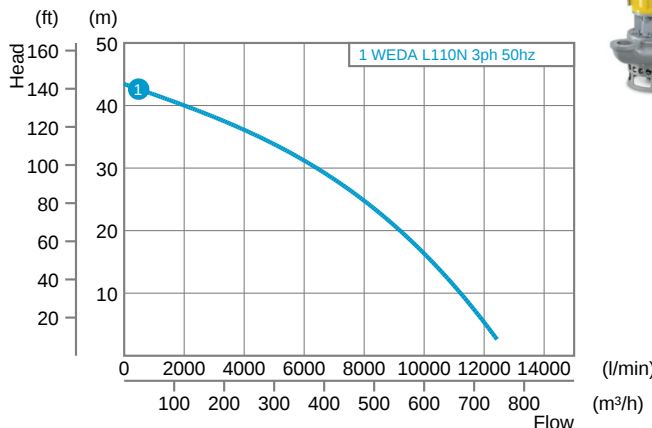
Weight and dimensions	Weda L95N
Discharge connection	4" (100 mm) DN flange
Solids handling	35 mm
Weight (excl. cable)	750 kg
Height	1605 mm
Width	935 mm
Diameter	546 mm
Minimum immersion	1240 mm
Rating	3 ph
Power P ₁	40 kW
Power P ₂	37 kW
Shaft speed	1450 r.p.m.
400 V	72.3 A

WEDA L100



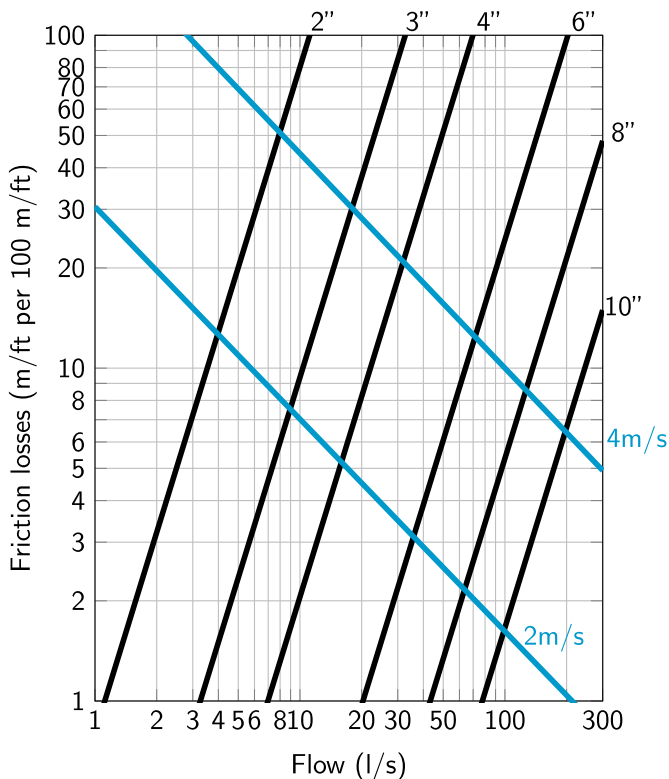
Weight and dimensions	Weda L100N
Discharge connection	6" (150 mm) DN flange
Solids handling	60 mm
Weight (excl. cable)	1005 kg
Height	1605 mm
Width	935 mm
Diameter	546 mm
Minimum immersion	1510 mm
Rating	3 ph
Power P ₁	49 kW
Power P ₂	45 kW
Shaft speed	980 r.p.m.
400 V	88 A

WEDA L110

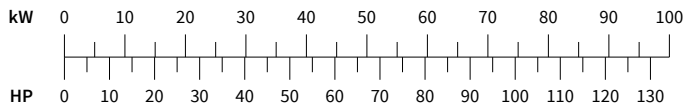
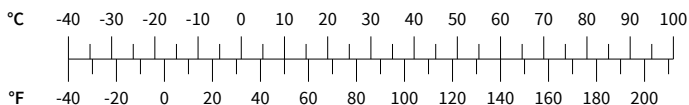
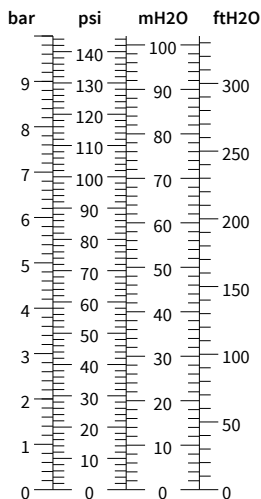
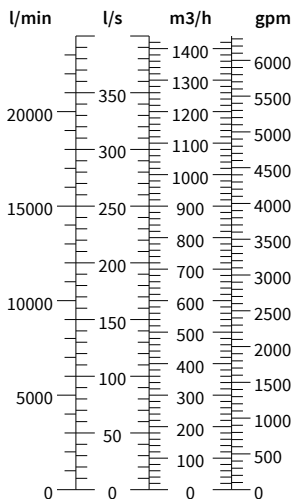


Weight and dimensions	Weda L110N
Discharge connection	6" (150 mm) DN flange
Solids handling	60 mm
Weight (excl. cable)	1070 kg
Height	1605 mm
Width	935 mm
Diameter	546 mm
Minimum immersion	1510 mm
Rating	3 ph
Power P ₁	80 kW
Power P ₂	75 kW
Shaft speed	1450 r.p.m.
400 V	131 A

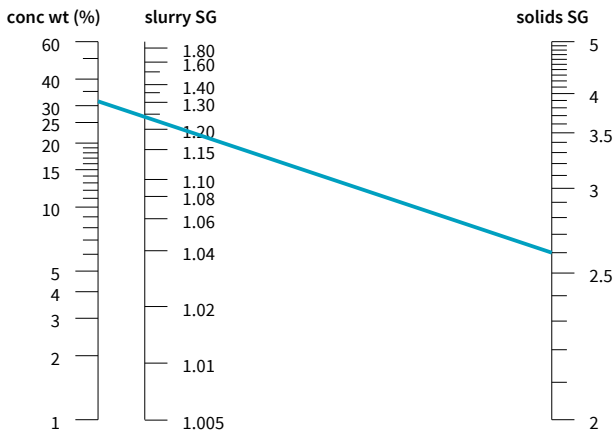
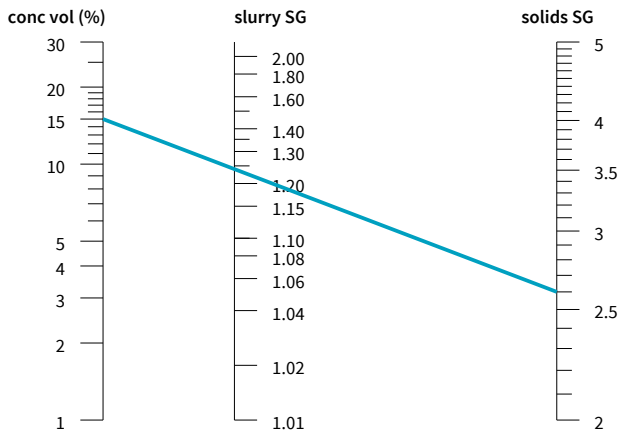
Pipe/hose friction losses



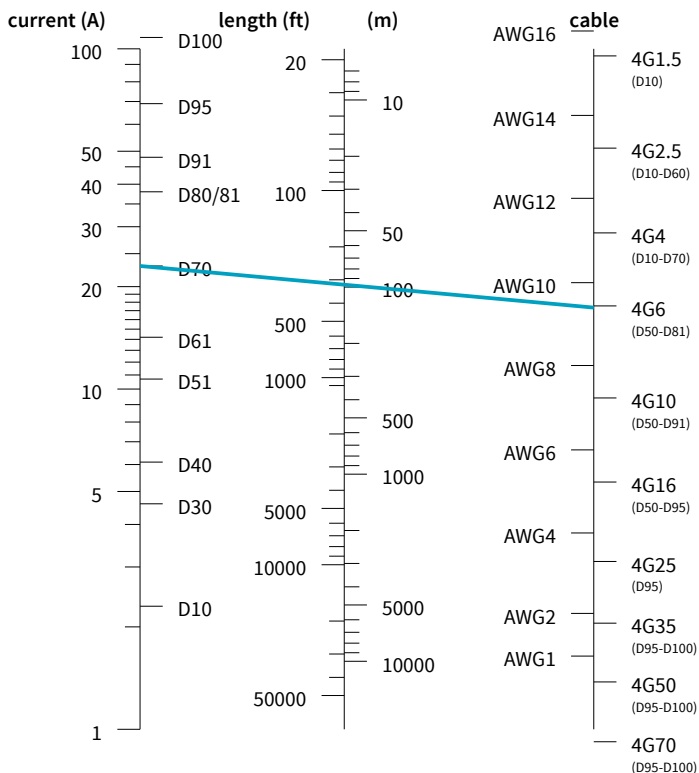
Units conversion



Slurry density



Maximum cable lengths



Allowed voltage drop 3% at 400V 50Hz

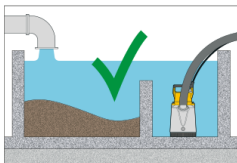
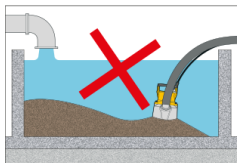
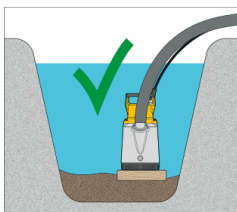
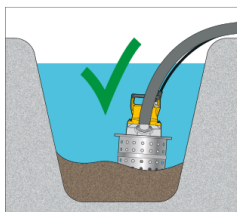
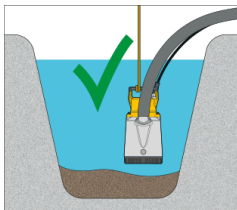
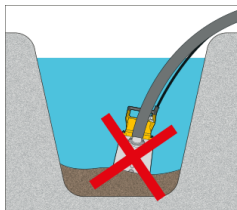
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Notes

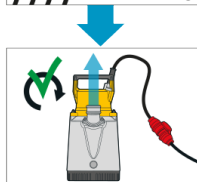
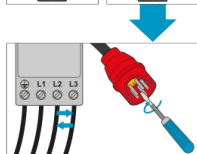
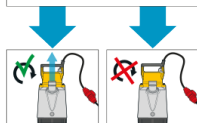
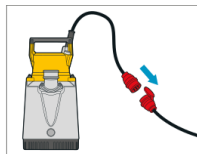
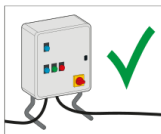
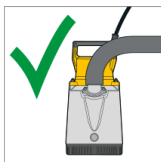
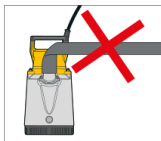
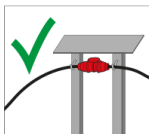
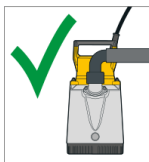
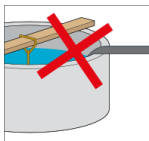
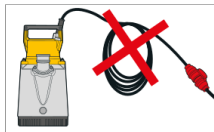
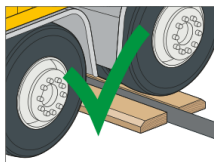
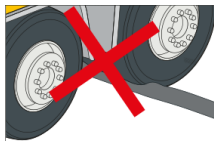
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Installation do's and don'ts



Installation do's and dont's





Atlas Copco Power and Flow division
atlascopco.com