

Atlas Copco

Reliable submersible dewatering solutions

The WEDA submersible pump range (60Hz)



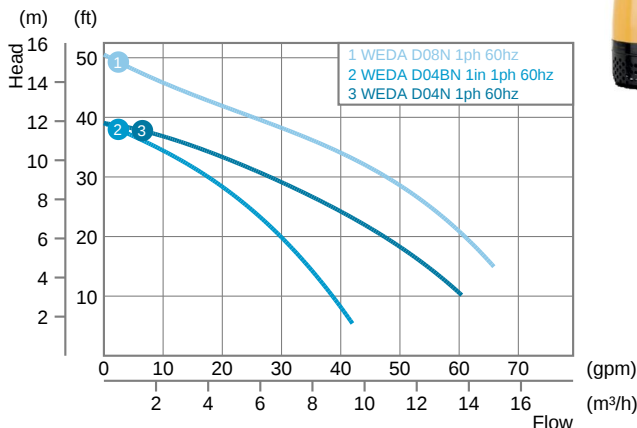
WEDA D range

- 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.



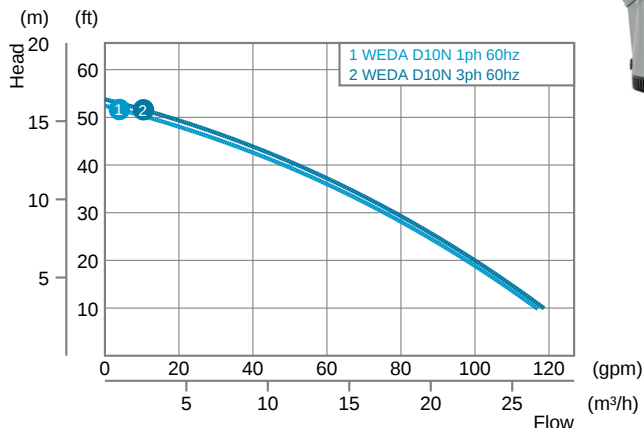
* some features and options on selected models only.

WEDA D04 - D08



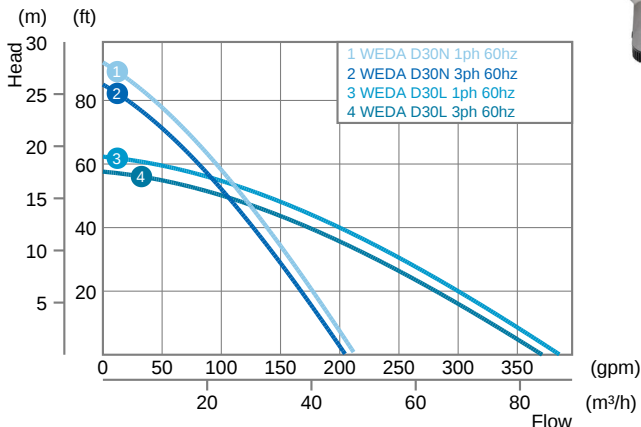
Dimensions	D04N	D04BN	D08N
Discharge connection	2"	1"	2"
Height	13.4" (340 mm)	16.4" (415 mm)	14.1" (358 mm)
Width	7.2" (182 mm)	8.7" (220 mm)	7.2" (183 mm)
Diameter	7.2" (182 mm)	8.7" (220 mm)	7.2" (183 mm)
Weight	20 lb (9 kg)	21 lb (9.5 kg)	28 lb (12.4 kg)
Solids handling	0.30" (7.5 mm)	0.18" (4.5 mm)	0.30" (7.5 mm)
Motor rating	D04N 1 ph	D04BN 1 ph	D08N 1 ph
Power P ₂	0.5 HP	0.5 HP	1 HP
Power P ₁	0.65 kW	0.65 kW	1.2 kW
Rated current (115V)	5.8 A	5.8 A	10.3 A
Rated current (230V)	3.2 A	3.2 A	5.1 A
Shaft speed	3500 r.p.m.	3500 r.p.m.	3500 r.p.m.

WEDA D10N



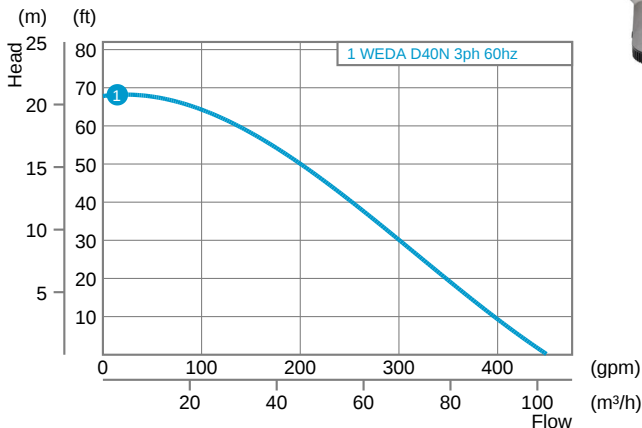
Weight and dimensions		N - Normal head	
Discharge connection		2"	
Height		15.6" / 18.5" (115V) (395 / 470 mm)	
Width		8.9" (225 mm)	
Diameter		7.3" (185 mm)	
Weight (excl. cable)		29 lb (13.0 kg)	
Solids handling, strainer hole		0.16" (4.0 mm)	
Rating	1 ph	3 ph	Std cable
Power P ₁	1.8 kW	1.4 kW	
Power P ₂	1.5 HP	1.5 HP	
Shaft speed	3500 r.p.m.	3500 r.p.m.	
115 V	16.2 A	-	AWG14
230 V	8.1 A	4.6 A	AWG16
460 V	-	2.3 A	AWG16
575 V	-	1.8 A	AWG16

WEDA D30



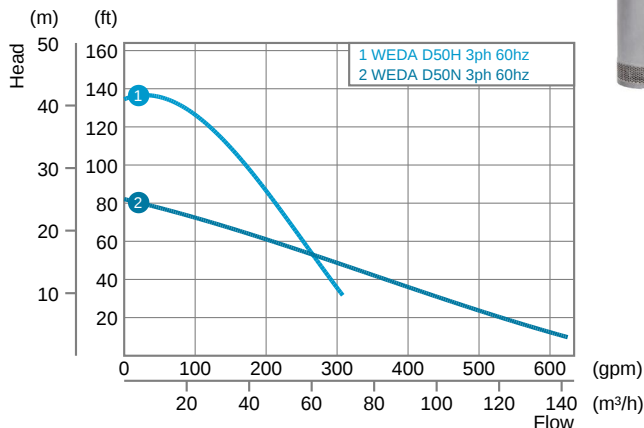
Weight and dimensions	N - Normal head	L - High flow
Discharge connection	3"	3"
Height	20.7" (525 mm)	20.7" (525 mm)
Width	11.4" (290 mm)	11.4" (290 mm)
Diameter	8.7" (220 mm)	8.7" (220 mm)
Weight (excl. cable)	44 lb (20 kg)	44 lb (20 kg)
Solids handling, strainer hole	0.28" (7.0 mm)	0.28" (7.0 mm)
Rating	1 ph	3 ph Std cable 1/3ph
Power P ₁	2.9 kW	2.9 kW
Power P ₂	3 HP	3 HP
Shaft speed	3500 r.p.m.	3500 r.p.m.
230 V	13.0 A	9.0 A AWG14/16
460 V	-	4.5 A AWG14
575 V	-	3.6 A AWG14

WEDA D40



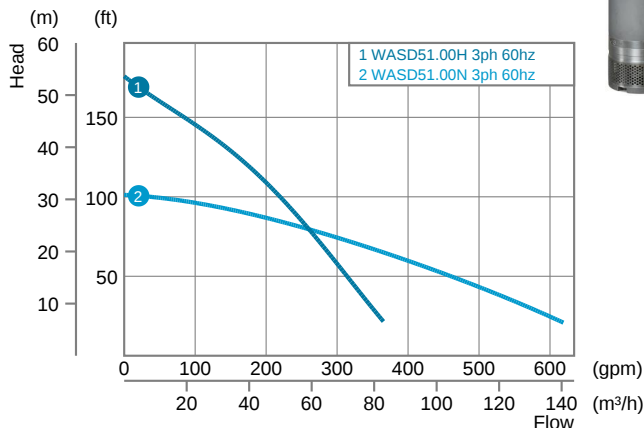
Weight and dimensions		N - Normal head
Discharge connection		3"
Height		20.7" (525 mm)
Width		11.4" (290 mm)
Diameter		8.7" (220 mm)
Weight (excl. cable)		56 lb (25 kg)
Solids handling, strainer hole		0.28" (7.0 mm)
Rating	3 ph	Std cable
Power P ₁	4.1 kW	
Power P ₂	4.3 HP	
Shaft speed	3500 r.p.m.	
230 V	12.0 A	AWG16/14
460 V	6.0 A	AWG16/14
575 V	4.8 A	AWG16/14

WEDA D50



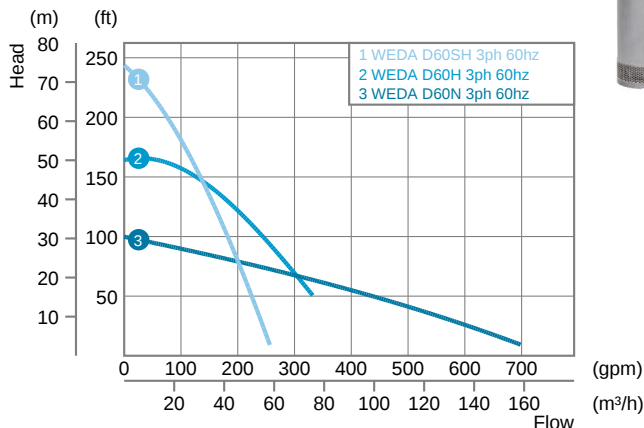
Weight and dimensions	N - Normal head	H - High head
Discharge connection	4"	3"
Height	28.3" (720 mm)	28.3" (720 mm)
Width	13.4" (340 mm)	11.9" (302 mm)
Diameter	10.9" (278 mm)	10.9" (278 mm)
Weight (excl. cable)	122 lb (55 kg)	122 lb (55 kg)
Solids handling, strainer hole	0.31" (8.0 mm)	0.31" (8.0 mm)
Rating	3 ph	Std cable
Power P ₁	7.5 kW	
Power P ₂	8.5 HP	
Shaft speed	3500 r.p.m.	
230 V	21 A	AWG8
460 V	10.6 A	AWG10
575 V	8.2 A	AWG12

WEDA D51



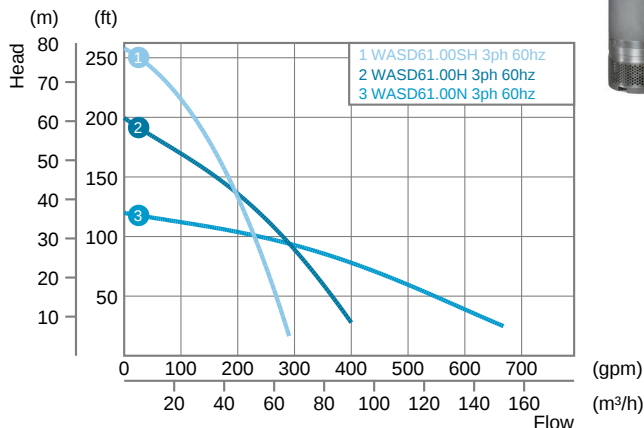
Weight and dimensions	N - Normal head	H - High head
Discharge connection	4"	3"
Height	30.6" (780 mm)	30.6" (780 mm)
Width	13" (330 mm)	12" (305 mm)
Diameter	11.1" (282 mm)	11.1" (282 mm)
Weight (excl. cable)	130 lbs (59 kg)	136 lbs (62 kg)
Solid handling, strainer hole	0.31" (8.0 mm)	0.31" (8.0 mm)
Rating	3 ph	Std cable
Power P ₁	8.1 kW	
Power P ₂	9 HP	
Shaft speed	3500 r.p.m.	
380 V	13.2 A	AWG10
460 V	11.2 A	AWG10
575 V	8.7 A	AWG10

WEDA D60



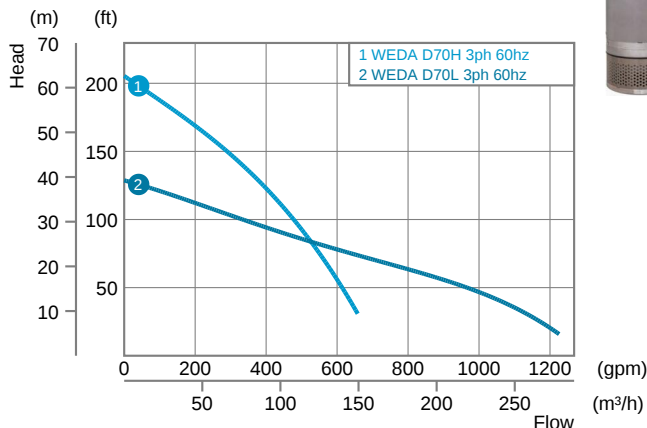
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	4"	3"	3"
Height	29.9" (760 mm)	29.9" (760 mm)	29.9" (760 mm)
Width	13.4" (340 mm)	11.9" (302 mm)	11.9" (302 mm)
Diameter	10.9" (278 mm)	10.9" (278 mm)	10.9" (278 mm)
Weight (excl. cable)	136 lb (61 kg)	136 lb (61 kg)	138 lb (62 kg)
Solid handling, strainer hole	0.31" (8.0 mm)	0.31" (8.0 mm)	0.31" (8.0 mm)
Rating	3 ph		Std cable
Power P ₁	9.9 kW		
Power P ₂	11.5 HP		
Shaft speed	3500 r.p.m.		
230 V	28 A		AWG8
460 V	14.1 A		AWG10
575 V	11.1 A		AWG12

WEDA D61



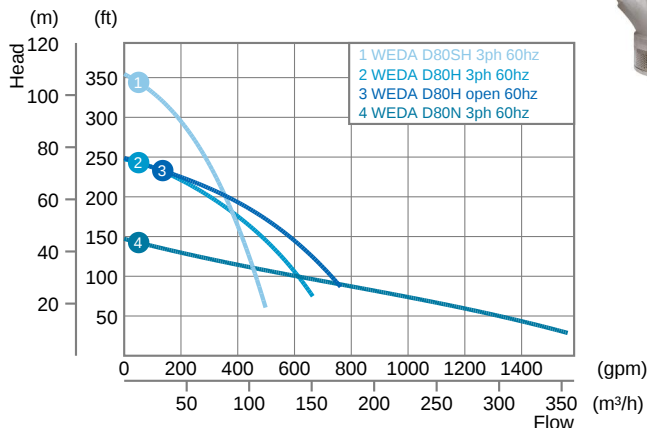
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	4"	3"	3"
Height	31.7" (810 mm)	31.7" (810 mm)	35.4" (900 mm)
Width	13" (330 mm)	12" (305 mm)	12" (305 mm)
Diameter	11.1" (282 mm)	11.1" (282 mm)	11.1" (282 mm)
Weight (excl. cable)	146 lbs (67 kg)	152 lbs (69 kg)	165 lbs (75 kg)
Solid handling, strainer hole	0.31" (8.0 mm)	0.31" (8.0 mm)	0.31" (8.0 mm)
Rating	3 ph		Std cable
Power P ₁	9.9 kW		
Power P ₂	11.5 HP		
Shaft speed	3500 r.p.m.		
380 V	16.8 A		AWG10
460 V	14.2 A		AWG10
575 V	11.1 A		AWG10

WEDA D70



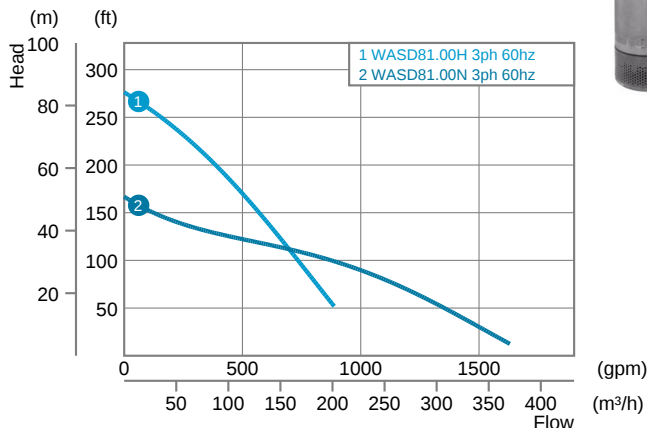
Weight and dimensions	L - High flow	H - High head
Discharge connection	6"	4"
Height	37.1" (943 mm)	37.1" (943 mm)
Width	16.4" (415 mm)	15.5" (393 mm)
Diameter	14.6" (370 mm)	14.6" (370 mm)
Weight (excl. cable)	244 lb (110 kg)	244 lb (110 kg)
Solid handling, strainer hole	0.39" (10.0 mm)	0.39" (10.0 mm)
Rating	3 ph	Std cable
Power P ₁	15 kW	
Power P ₂	18 HP	
Shaft speed	3500 r.p.m.	
460 V	24 A	AWG8
575 V	18.2 A	AWG10

WEDA D80



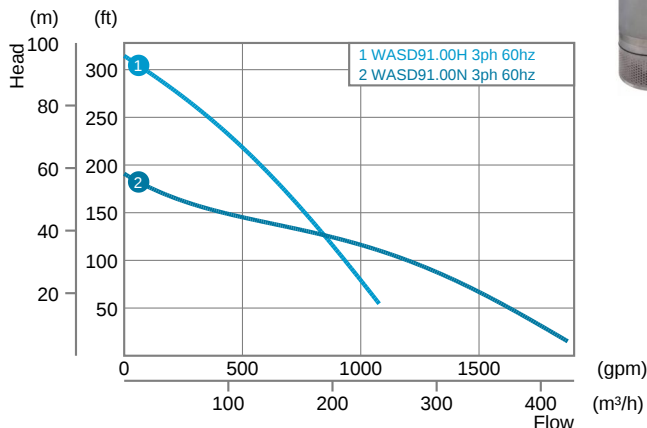
Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	6"	4"	3"
Height	38.6" (980 mm)	38.6" (980 mm)	41.6" (1060 mm)
Width	27.2" (690 mm)	26.2" (665 mm)	25.5" (650 mm)
Diameter	20.9" (530 mm)	20.9" (530 mm)	20.9" (530 mm)
Weight (excl. cable)	389 lb (175 kg)	389 lb (175 kg)	470 lb (215 kg)
Solid handling, strainer hole	0.47" (12.0 mm)	0.47" (12.0 mm)	0.47" (12.0 mm)
Rating	3 ph		Std cable
Power P ₁	26 kW		
Power P ₂	31 HP		
Shaft speed	3500 r.p.m.		
460 V	40 A		AWG6
575 V	30 A		AWG8

WEDA D81



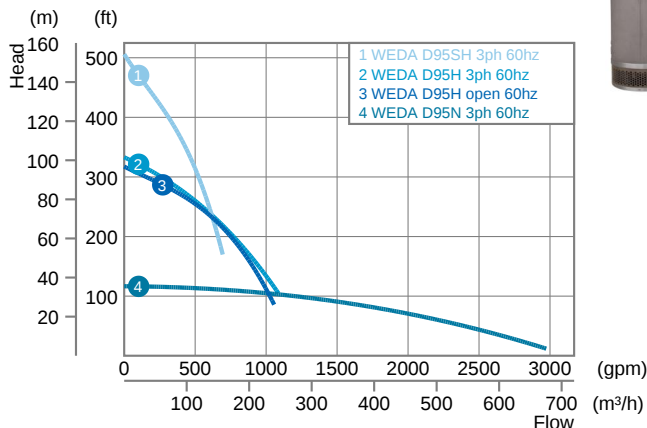
Weight and dimensions	N - Normal head	H - High head
Discharge connection	6"	4"
Height	42.2" (1075 mm)	42.2" (1075 mm)
Width	18.3" (465 mm)	17.3" (440 mm)
Diameter	16.7" (425 mm)	16.7" (425 mm)
Weight (excl. cable)	420 lbs (190 kg)	420 lbs (190 kg)
Solid handling, strainer hole	0.47" (12.0 mm)	0.47" (12.0 mm)
Rating	3 ph	Std cable
Power P ₁	26 kW	
Power P ₂	31 HP	
Shaft speed	3500 r.p.m.	
460 V	38 A	AWG6
575 V	30 A	AWG8

WEDA D91



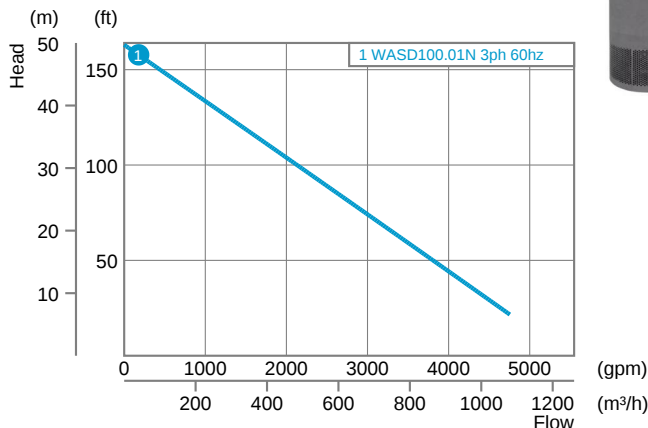
Weight and dimensions	N - Normal head	H - High head
Discharge connection	6"	4"
Height	44.2" (1125 mm)	44.2" (1125 mm)
Width	18.3" (465 mm)	17.3" (440 mm)
Diameter	16.7" (425 mm)	16.7" (425 mm)
Weight (excl. cable)	455 lbs (205 kg)	455 lbs (205 kg)
Solid handling, strainer hole	0.47" (12.0 mm)	0.47" (12.0 mm)
Rating	3 ph	Std cable
Power P ₁	34 kW	
Power P ₂	40 HP	
Shaft speed	3500 r.p.m.	
460 V	48 A	AWG6
575 V	38 A	AWG6

WEDA D95



Weight and dimensions	N - Normal head	H - High head	SH - Super high head
Discharge connection	8"	4"	4"
Height	52.4" (1330 mm)	52.4" (1330 mm)	53.2" (1350 mm)
Width	18.1" (460 mm)	18.1" (460 mm)	18.3" (465 mm)
Diameter	18.1" (460 mm)	18.1" (460 mm)	18.3" (465 mm)
Weight (excl. cable)	589 lb (265 kg)	589 lb (265 kg)	660 lbs (300 kg)
Solid handling, strainer hole	0.63" (16.0 mm)	0.47" (12.0 mm)	0.47" (12.0 mm)
Rating		3ph	Std cable
Power P ₁		48 kW	
Power P ₂		58 HP	
Shaft speed		3500 r.p.m.	
460 V		68 A	AWG2
575 V		55 A	AWG4

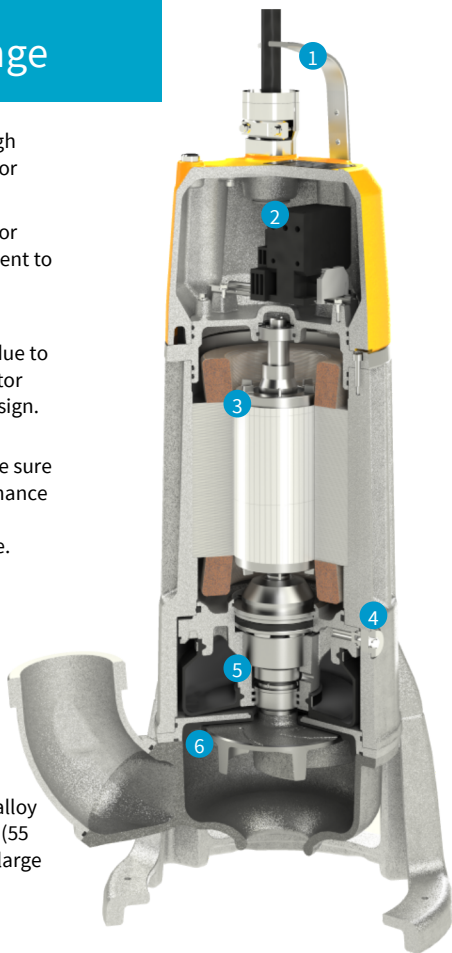
WEDA D100



Weight and dimensions		N - Normal head
Discharge connection	10" / EN1092-1/BS4504 PN10 DN250	
Height	55.6" (1412 mm)	
Width	25.6" (650 mm)	
Diameter	23.6" (600 mm)	
Weight (excl. cable)	1156 lb (520 kg)	
Solid handling, strainer hole	0.47" (12.0 mm)	
Rating	3 ph	Std cable
Power P ₁	74 kW	
Power P ₂	92 HP	
Shaft speed	1750 r.p.m.	
460 V (YD)	105 A	2 x AWG2
460 V (DOL)	105 A	1 x AWG2
575 V	84 A	

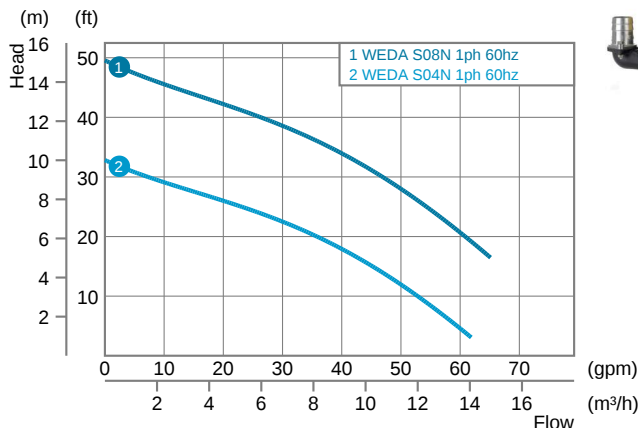
WEDA S range

- 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.



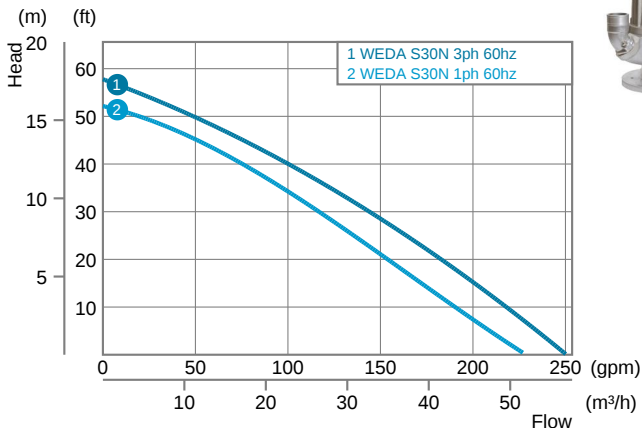
* some features and options on selected models only.

WEDA S04 - S08



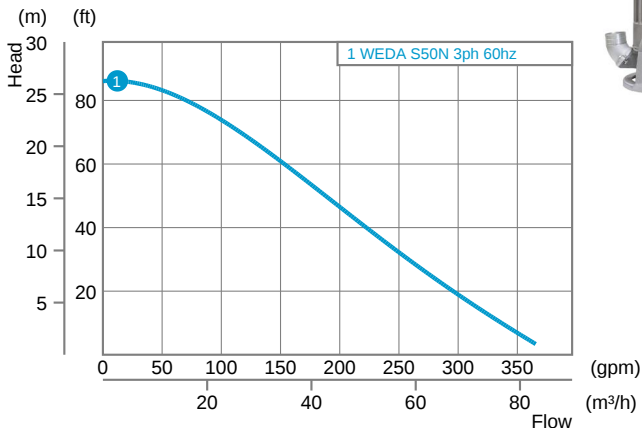
Dimensions	S04N	S08N
Discharge connection	2"	2"
Height	14.8" (375 mm)	16.4" (416 mm)
Width	10.9" (277 mm)	10.9" (277 mm)
Diameter	9.5" (241 mm)	9.5" (241 mm)
Weight	24 lb 11 kg	29 lb 13 kg
Solids handling	1.0" (25.0 mm)	1.0" (25.0 mm)
Motor rating	S04N 1 ph	S08N 1 ph
Power P ₂	0.5 HP	1 HP
Power P ₁	0.65 kW	1.2 kW
Rated current (115V)	5.8 A	10.3 A
Rated current (230V)	3.2 A	5.1 A
Shaft speed	3500 r.p.m.	3500 r.p.m.

WEDA S30



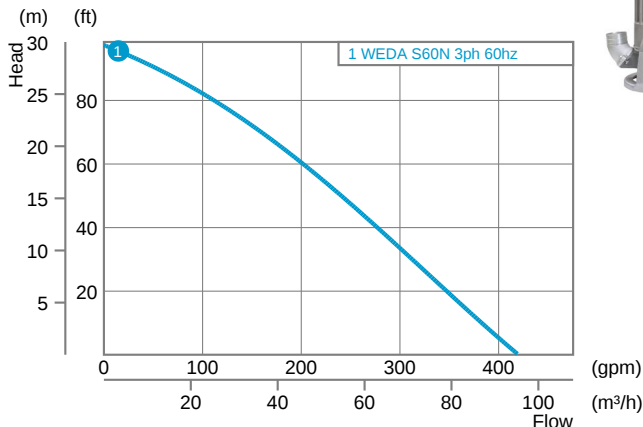
Weight and dimensions		N - Normal head	
Discharge connection		3"	
Height		24.4" (620 mm)	
Width		12.8" (326 mm)	
Diameter		9.8" (250 mm)	
Weight (excl. cable)		56 lb (25 kg)	
Solid handling		2.0" (50.0 mm)	
Rating	1 ph	3 ph	Std cable 1/3ph
Power P ₁	2.9 kW	3.9 kW	
Power P ₂	3 HP	4 HP	
Shaft speed	3500 r.p.m.	3500 r.p.m.	
230 V	13.0 A	11.3 A	AWG14/16
460 V	-	5.6 A	AWG14
575 V	-	4.5 A	AWG14

WEDA S50



Weight and dimensions		N - Normal head
Discharge connection		4"
Height		31.9" (810 mm)
Width		17.7" (450 mm)
Diameter		13.8" (350 mm)
Weight (excl. cable)		132 lb (59 kg)
Solid handling		2.0" (50.0 mm)
Rating	3 ph	Std cable
Power P ₁	6.2 kW	
Power P ₂	7 HP	
Shaft speed	3500 r.p.m.	
230 V	17.4 A	AWG10
460 V	8.7 A	AWG10
575 V	6.8 A	AWG12

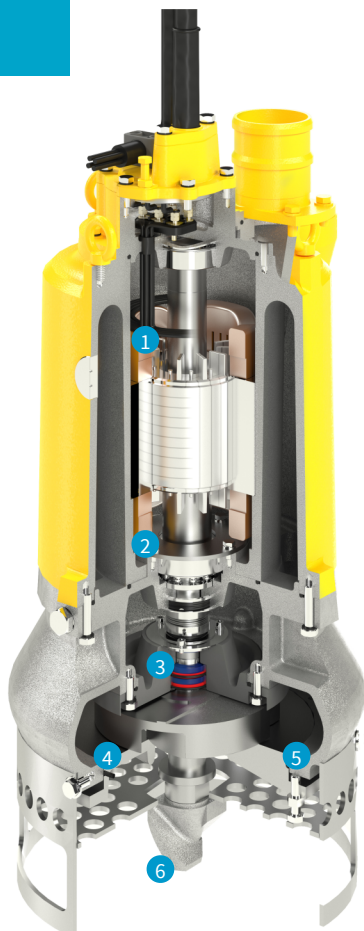
WEDA S60



Weight and dimensions		N - Normal head
Discharge connection		4"
Height		34.3" (870 mm)
Width		17.7" (450 mm)
Diameter		13.8" (350 mm)
Weight (excl. cable)		144 lb (65 kg)
Solid handling		2.0" (50.0 mm)
Rating	3 ph	Std cable
Power P ₁	8.0 kW	
Power P ₂	9.3 HP	
Shaft speed	3500 r.p.m.	
230 V	23 A	AWG10
460 V	11.4 A	AWG10
575 V	8.9 A	AWG12

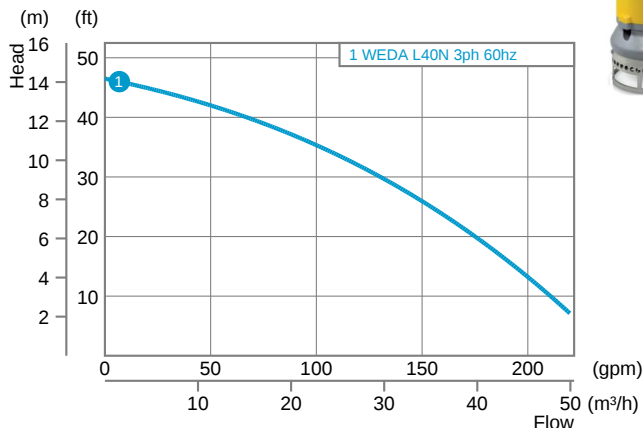
WEDA L range

- 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.



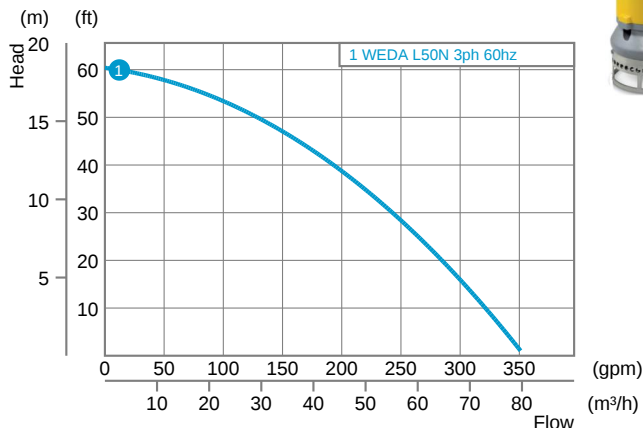
* some features and options on selected models only.

WEDA L40



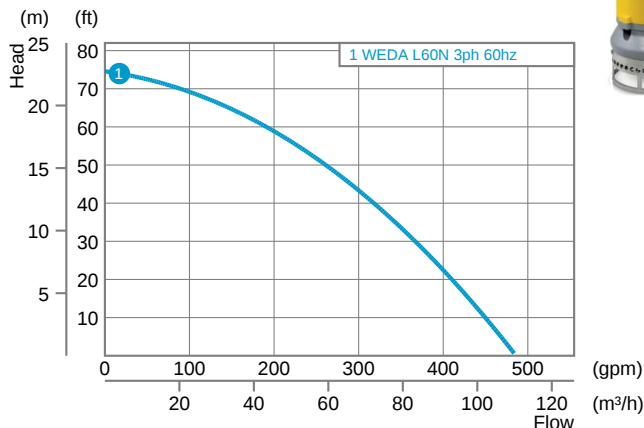
Weight and dimensions		Weda L40N
Discharge connection		3" (75 mm) hose/NPT
Solids handling		20 mm (0.8")
Weight (excl. cable)		411 lb (185 kg)
Height		31.2" (793 mm)
Width		15.3" (388 mm)
Diameter		13.3" (337 mm)
Minimum immersion		13.8" (350 mm)
Rating		3 ph
Power P ₁		4.5 kW (6 HP)
Power P ₂		3.7 kW (5 HP)
Shaft speed		1750 r.p.m.
460 V		7.5 A

WEDA L50



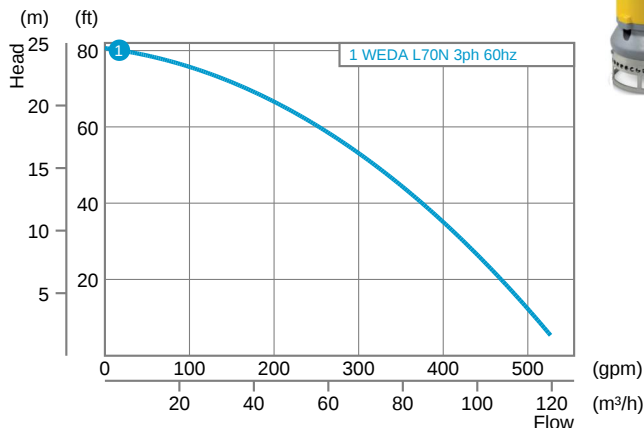
Weight and dimensions	Weda L50N
Discharge connection	4" (100 mm) hose/NPT
Solids handling	25 mm (1")
Weight (excl. cable)	578 lb (260 kg)
Height	36" (914 mm)
Width	17.1" (435 mm)
Diameter	16.3" (413 mm)
Minimum immersion	15" (380 mm)
Rating	3 ph
Power P ₁	6.8 kW (9.1 HP)
Power P ₂	5.5 kW (7.4 HP)
Shaft speed	1750 r.p.m.
460 V	9.8 A

WEDA L60



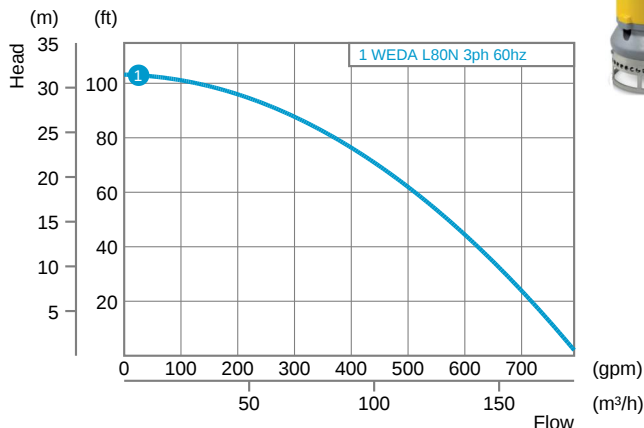
Weight and dimensions	Weda L60N
Discharge connection	4" (100 mm) hose/NPT
Solids handling	25 mm (1")
Weight (excl. cable)	578 lb (260 kg)
Height	36" (914 mm)
Width	17.1" (435 mm)
Diameter	16.3" (413 mm)
Minimum immersion	15" (380 mm)
Rating	3 ph
Power P ₁	10.4 kW (13.9 HP)
Power P ₂	9 kW (12.1 HP)
Shaft speed	1750 r.p.m.
460 V	16.2 A

WEDA L70



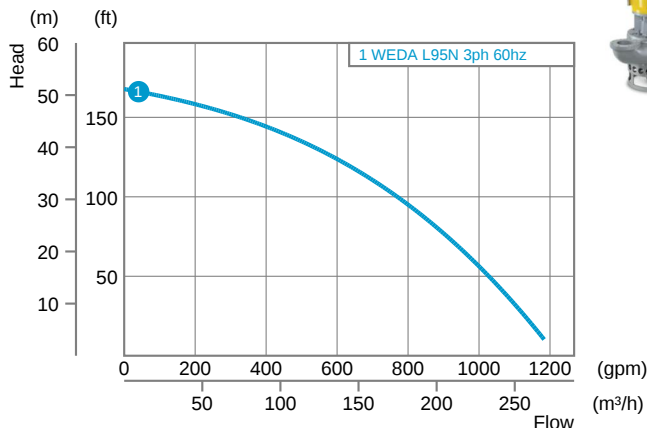
Weight and dimensions	Weda L70N
Discharge connection	4" (100 mm) hose/NPT
Solids handling	25 mm (1")
Weight (excl. cable)	600 lb (270 kg)
Height	36" (914 mm)
Width	17.1" (435 mm)
Diameter	16.3" (413 mm)
Minimum immersion	15" (380 mm)
Rating	3 ph
Power P ₁	12.8 kW (17.2 HP)
Power P ₂	11 kW (14.8 HP)
Shaft speed	1750 r.p.m.
460 V	18.8 A

WEDA L80



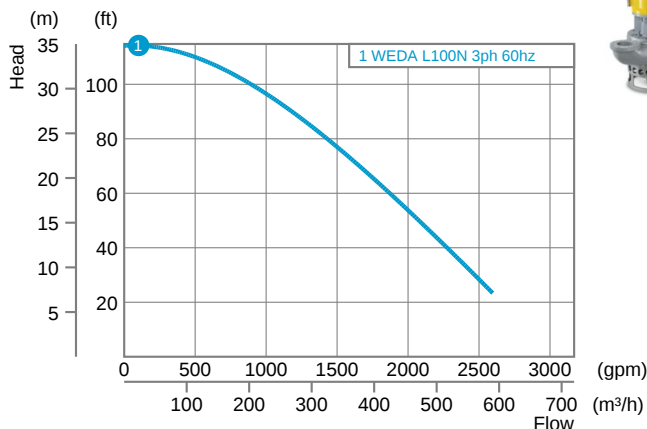
Weight and dimensions		Weda L80N
Discharge connection		4" (100 mm) ANSI flange
Solids handling		25 mm (1")
Weight (excl. cable)		689 lb (310 kg)
Height		42.5" (1080 mm)
Width		22.8" (580 mm)
Diameter		19.5" (495 mm)
Minimum immersion		16.2" (412 mm)
Rating		3 ph
Power P ₁		16.1 kW (21.6 HP)
Power P ₂		15 kW (20 HP)
Shaft speed		1750 r.p.m.
460 V		25.4 A

WEDA L95



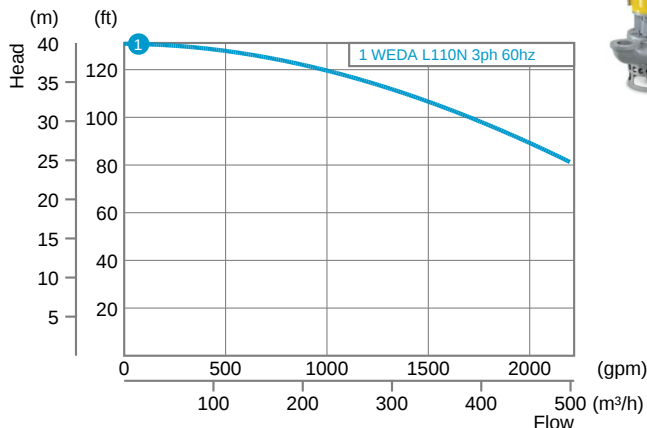
Weight and dimensions		Weda L95N
Discharge connection		4" (100 mm) ANSI flange
Solids handling		35 mm (1.4")
Weight (excl. cable)		1667 lb (750 kg)
Height		63.2" (1605 mm)
Width		36.8" (935 mm)
Diameter		21.5" (546 mm)
Minimum immersion		48.8" (1240 mm)
Rating		3 ph
Power P ₁		40 kW (54 HP)
Power P ₂		37 kW (50 HP)
Shaft speed		1750 r.p.m.
460 V		62.9 A

WEDA L100



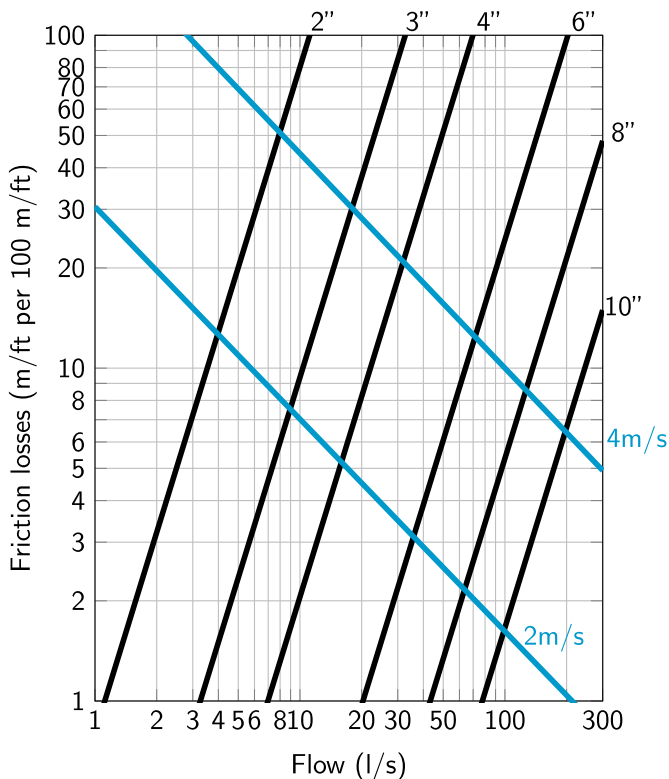
Weight and dimensions	Weda L100N
Discharge connection	6" (150 mm) ANSI flange
Solids handling	60 mm (2.4")
Weight (excl. cable)	2233 lb (1005 kg)
Height	63.2" (1605 mm)
Width	36.8" (935 mm)
Diameter	21.5" (546 mm)
Minimum immersion	59.4" (1510 mm)
Rating	3 ph
Power P ₁	49 kW (65 HP)
Power P ₂	45 kW (60 HP)
Shaft speed	1150 r.p.m.
460 V	76 A

WEDA L110

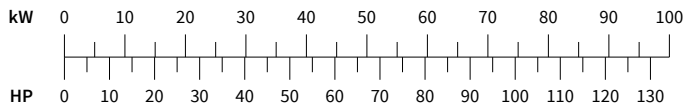
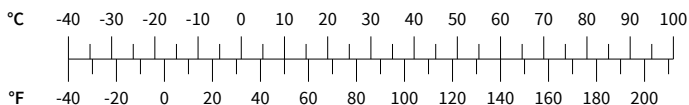
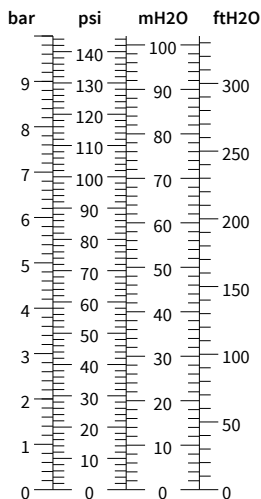
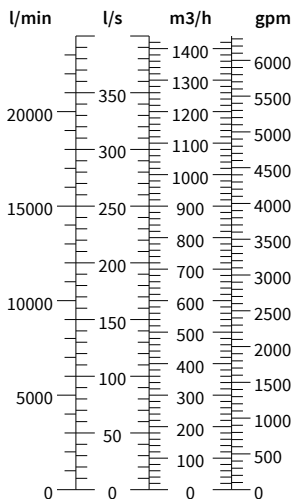


Weight and dimensions		Weda L110N
Discharge connection		6" (150 mm) ANSI flange
Solids handling		60 mm (2.4")
Weight (excl. cable)		2378 lb (1070 kg)
Height		63.2" (1605 mm)
Width		36.8" (935 mm)
Diameter		21.5" (546 mm)
Minimum immersion		59.4" (1510 mm)
Rating		3 ph
Power P ₁		80 kW (107 HP)
Power P ₂		75 kW (101 HP)
Shaft speed		1750 r.p.m.
460 V		114 A

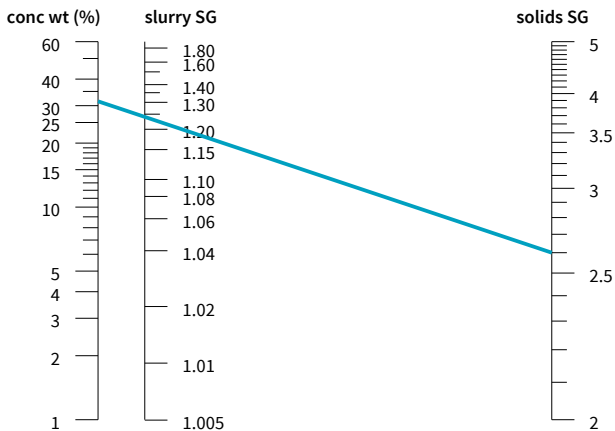
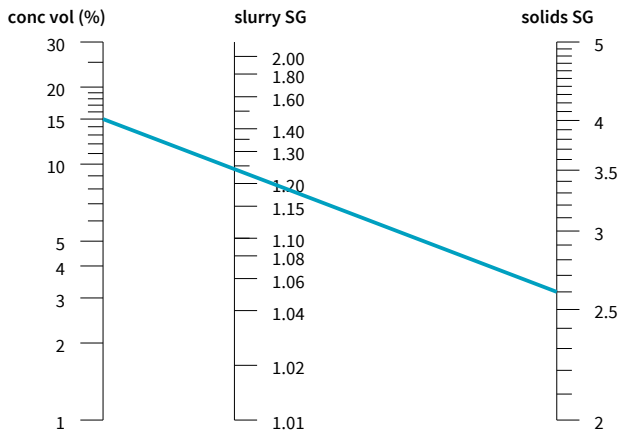
Pipe/hose friction losses



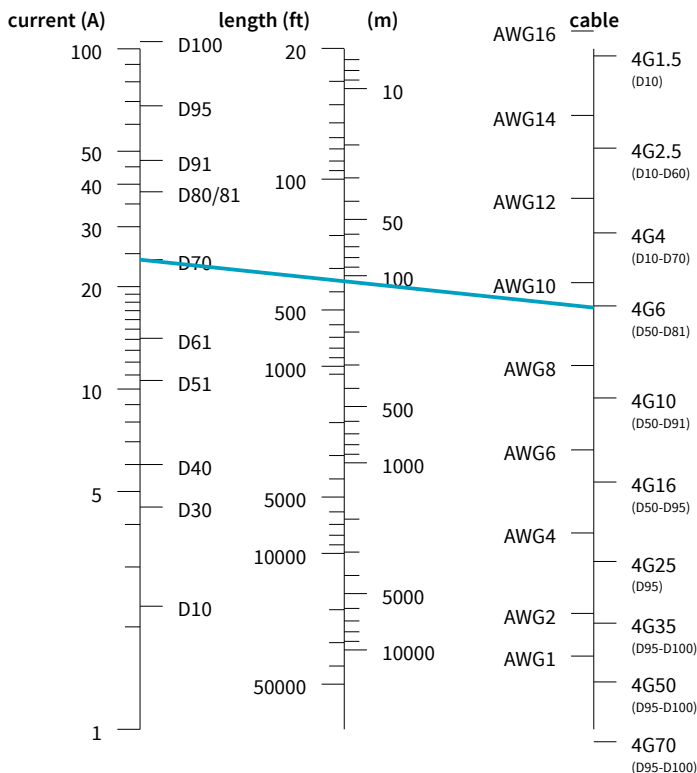
Units conversion



Slurry density



Maximum cable lengths



Allowed voltage drop 3% at 460V 60Hz

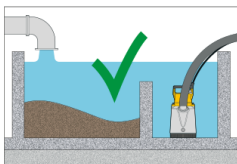
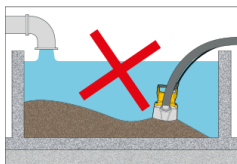
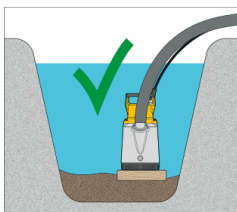
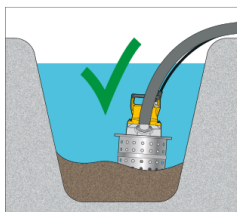
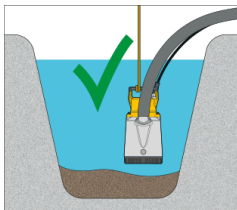
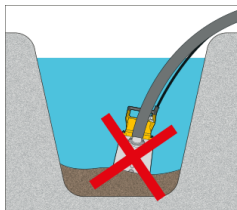
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Notes

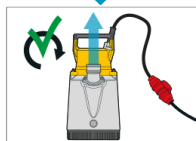
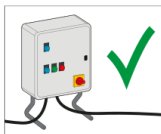
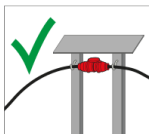
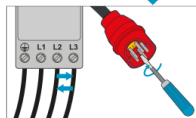
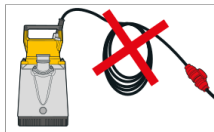
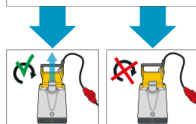
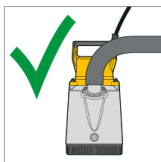
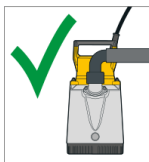
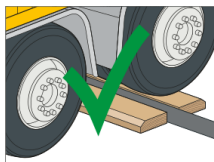
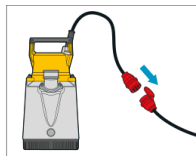
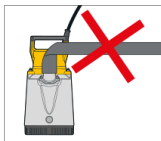
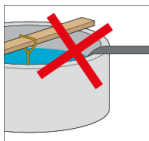
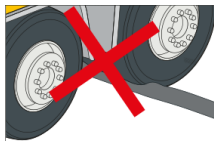
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Installation do's and don'ts



Installation do's and dont's





Atlas Copco Power and Flow division
atlascopco.com