



# Reliable submersible dewatering solutions

The WEDA pump range (60Hz)

# WEDA Submersible pumps

WEDA electric submersible pumps and accessories are designed for an extensive range of dewatering applications, across multiple industries.

They provide the performance, reliability and ease of use you need. WEDA pumps feature a built-in starter and motor protection system along with optional automatic level control. Starting with the WEDA D70 more and more WEDA pump models are updated with patented Wear Deflector Technology that provides state-of-the-art wear resistance as well as quick readjustment to as-new performance.

At Atlas Copco, we understand pumps, their applications and, most importantly, the people using them. We have a complete range of high-quality and lightweight electric submersible pumps designed specifically for drainage, sludge and slurry pumping applications.

WEDA pumps are made for durability. The unique cartridge sealing system and modular design make them among the most flexible pumps on the market. Easy to use and maintain, WEDA pumps promise optimal performance. The WEDA seal system is designed to provide the optimum maintenance solution and can be easily fitted at the job site. Repairability of our products is built-in right from the design stage. This minimizes down-time and reduces environmental footprint, a testament to our pledge to sustainability.

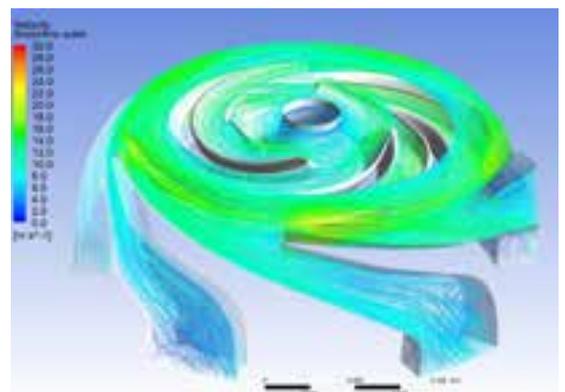


## Wear Deflector Technology

WEDA submersible drainage pumps are equipped with a revolutionary hydraulic design that minimizes wear and keeps performance up, even under the toughest conditions.

The patented Wear Deflector Technology consists of several aspects that combine to provide unrivaled resistance to wear by abrasive particles in the pumped media:

	D70	D80	D81	D91	D95
State-of-the-art hydraulic design techniques	✓	✓	✓	✓	✓
State-of-the-art manufacturing techniques	✓	✓	✓	✓	✓
High chrome wear resistant impeller	✓	✓	✓	✓	✓
Closed impeller with auxiliary vanes	H ✓	H&SH ✓	H ✓	H ✓	H&SH ✓
Polyurethane upper diffuser	✓		✓	✓	
Lower diffuser with wear deflector vanes	H ✓		H ✓	H ✓	



**SPECIFIC GRAVITY**  
UP TO **1.5**



**SOLIDS HANDLING**  
UP TO **2.4** inch



UP TO **40%** LIGHTER  
IN WEIGHT



**HIGH WEAR RESISTANCE**



## WEDA pump for every dewatering application

We understand the dewatering needs of our customers, which vary with location and application. Accordingly our submersible range is developed for drainage (D), sludge (S) and slurry (L) applications.

### DRAINAGE PUMPS (WEDA D)



### SLUDGE PUMPS (WEDA S)



### SLURRY PUMPS (WEDA L)



**SPECIFIC GRAVITY**  
UP TO 1.1

**SPECIFIC GRAVITY**  
UP TO 1.2

**SPECIFIC GRAVITY**  
UP TO 1.5

**SOLIDS HANDLING**  
UP TO 0.5 inch

**SOLIDS HANDLING**  
UP TO 2 inch

**SOLIDS HANDLING**  
UP TO 2.4 inch

**pH VALUES**  
FROM 5 TO 8

**pH VALUES**  
FROM 5 TO 8

**pH VALUES**  
FROM 4 TO 10



## DESIGNED FOR REPAIRABILITY

### Applications:

- General dewatering
- Ground water
- Raw water
- Construction sites
- Sludge or light slurry
- Tank clean-out
- Trench and pond cleaning
- Mining and quarries
- Water containing mud
- Abrasive media with solids content
- Dredging
- Settling ponds

### Did you know?

WEDA extended the patented Wear Deflector Technology to the entire 18 - 58 HP range!

# WEDA D range

The WEDA drainage pumps handle clean as well as dirty water, with the best performance and efficiency.

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 oversized motor and heat dissipating design.

1

2

3

6

4

5

7



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.

55  HRC

*\*Some features and options on selected models only.*

# WEDA S range

The WEDA sludge pumps can handle thick, soft, wet mud or other similarly viscous mixtures of liquids and solids.

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!

1

3

Dry running capability due to carefully sized motor and heat dissipating design.

2

4

External oil screws making sure that preventive maintenance gets done, instead of postponed until too late.

3

5

Double mechanical seal running in an oil bath and robust o-ring design prevent water ingress and is easy to service.

4

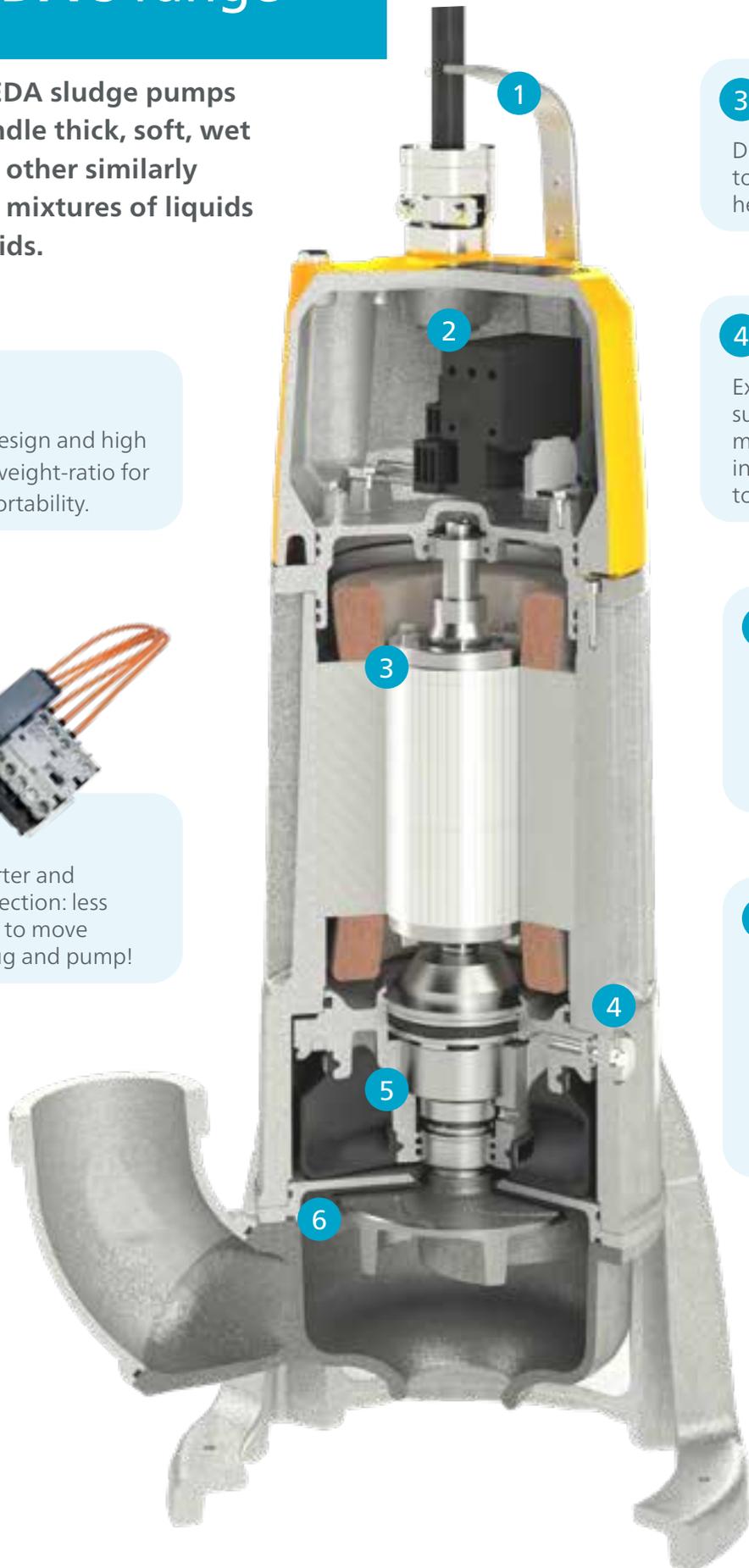
6

High-chrome cast-iron alloy wear-resistant impeller (55 HRC) of vortex type for large solids passage.

5

6

55  HRC



*\*Some features and options on selected models only.*

# WEDA L range

The WEDA slurry pumps are the toughest pumps, designed to handle the most challenging slurries and solids.

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.

4

Solids handling up to 60 mm (2.4 in).



5

High-chrome agitator to get and keep solids in suspension increasing output.



*\*Some features and options on selected models only.*

A yellow WEDA pump is being lifted by a crane using wooden slings. A white flexible hose is attached to the top of the pump. A person wearing a red and black glove is holding the pump. The pump has a label with 'WEDA-LINE' and 'CE' on it. The background shows a body of water and trees.

## Tough environments demand tough pumps

The unique construction of the WEDA pumps provides high corrosion and wear resistance in a wide range of applications

# WEDA D range

## Technical data



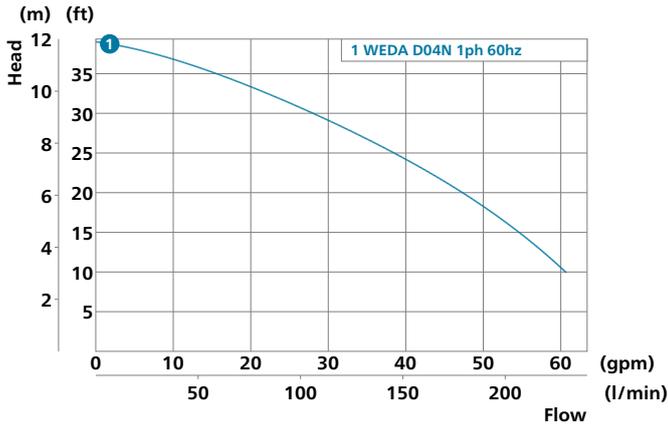
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SPECIFICATIONS		1ph	1ph	1ph	1ph	3ph	1ph	3ph	1ph	3ph	3ph
Max. head	m	11.9	11.9	15.4	16.1	15.7	19.0	17.6	28	26	21
	ft	39	39	51	53	52	62	58	92	85	70
Max. flow	l/min	230	160	250	510	500	1470	1410	820	790	1720
	m <sup>3</sup> /h	14	10	15	30	30	88	85	49	47	103
	gpm	61	42	66	134	132	390	370	220	210	450
Shaft speed	r.p.m.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
Rated output	kW	0.4	0.4	0.7	1.1	1.1	2.2	2.2	2.2	2.2	3.2
	HP	0.5	0.5	1.0	1.5	1.5	3.0	3.0	3.0	3.0	4.3
Max. power input	kW	0.7	0.7	1.2	1.8	1.4	2.9	2.9	2.9	2.9	4.1
Discharge connection	mm	50	25	50	50	50	75	75	75	75	75
	inch	2	1	2	2	2	3	3	3	3	3
Max. solids handling size	mm	7.5	4.5	7.5	4.0	4.0	7.0	7.0	7.0	7.0	7.0
	inch	0.30	0.18	0.30	0.16	0.16	0.28	0.28	0.28	0.28	0.28
WEIGHT & DIMENSIONS											
Weight	kg	9.0	9.5	12.4	13.0	13.0	20	20	20	20	25
	lbs	20	21	28	29	29	44	44	44	44	56
Height	mm	340	415	358	395	395	525	525	495	495	525
	inch	13.4	16.3	14.1	15.6	15.6	20.7	20.7	19.5	19.5	20.7
Width	mm	182	220	183	225	225	290	290	290	290	290
	inch	7.2	8.7	7.2	8.9	8.9	11.4	11.4	11.4	11.4	11.4
Diameter	mm	182	220	183	185	185	220	220	220	220	220
	inch	7.2	8.7	7.2	7.3	7.3	8.7	8.7	8.7	8.7	8.7

## Typical applications

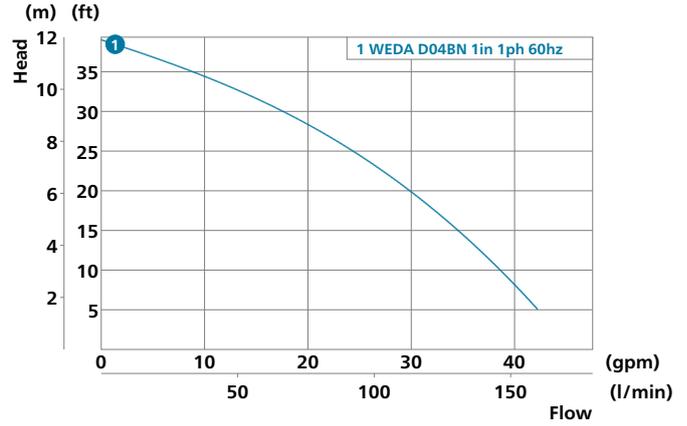
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

# Performance curves

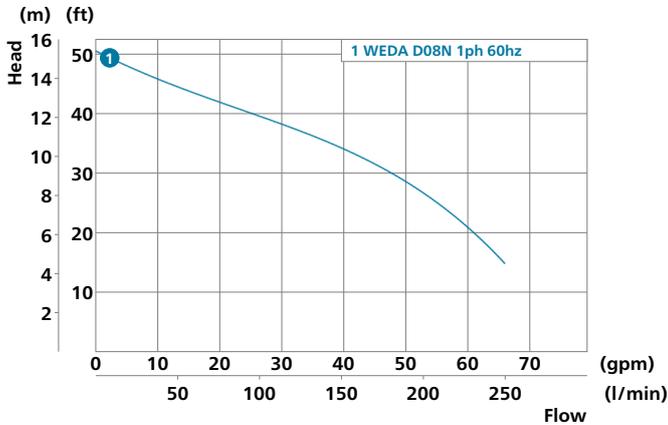
**WEDA D04N**



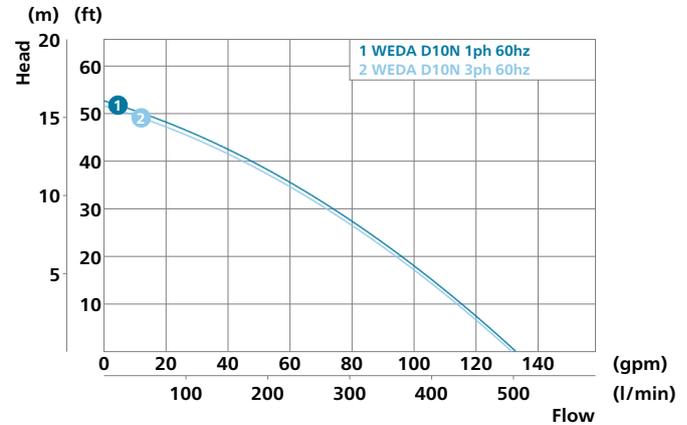
**WEDA D04BN**



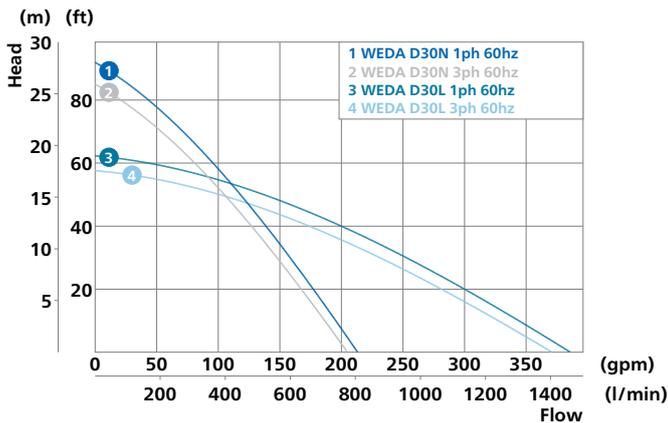
**WEDA D08N**



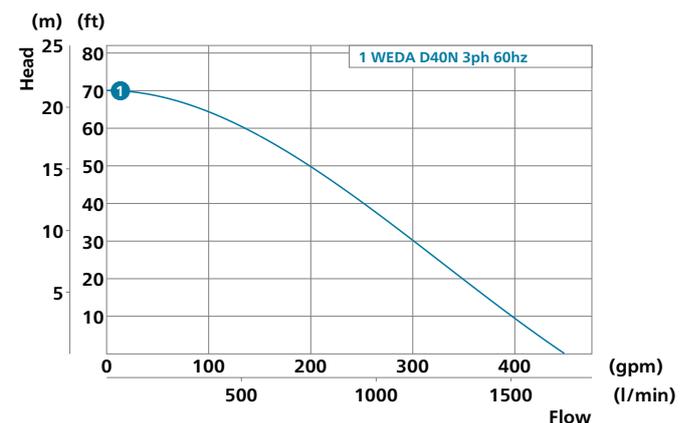
**WEDA D10N**



**WEDA D30**



**WEDA D40N**



# WEDA D range

## Technical data



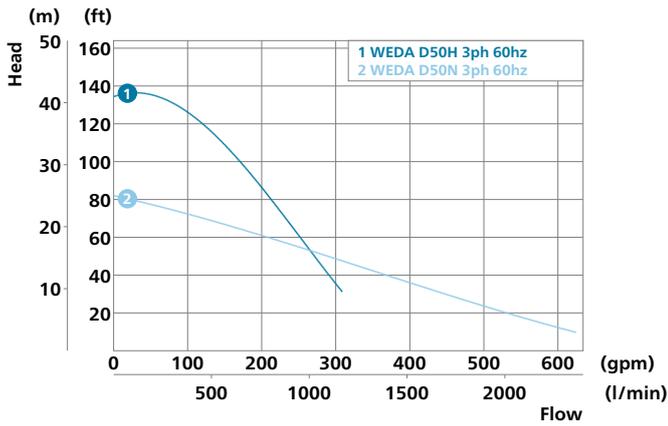
		WEDA D50N	WEDA D50H	WEDA D60N	WEDA D60H	WEDA D60SH	WEDA D80N	WEDA D80H	WEDA D80SH
SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	25	42	30	51	74	45	75	108
	ft	82	136	100	166	244	147	247	355
Max. flow	l/min	2370	1170	2640	1270	980	5920	2520	1900
	m³/h	142	70	159	76	59	360	151	114
	gpm	630	310	700	340	260	1560	670	500
Shaft speed	r.p.m.	3500	3500	3500	3500	3500	3500	3500	3500
Rated output	kW	6.3	6.3	8.6	8.6	8.6	23	23	23
	HP	8.5	8.5	11.5	11.5	11.5	31	31	31
Max. power input	kW	7.5	7.5	9.9	9.9	9.9	26	26	26
Discharge connection	mm	100	75	100	75	75	150	100	75
	inch	4	3	4	3	3	6	4	3
Max. solids handling size	mm	8.0	8.0	8.0	8.0	8.0	12.0	12.0	12.0
	inch	0.31	0.31	0.31	0.31	0.31	0.47	0.47	0.47
WEIGHT & DIMENSIONS									
Weight	kg	55	55	61	61	62	175	175	215
	lbs	122	122	136	136	138	389	389	478
Height	mm	720	720	760	760	760	980	980	1060
	inch	28.3	28.3	29.9	29.9	29.9	38.6	38.6	41.7
Width	mm	330	302	330	302	302	690	665	650
	inch	13.0	11.9	13.0	11.9	11.9	27.2	26.2	25.6
Diameter	mm	278	278	278	278	278	530	530	530
	inch	10.9	10.9	10.9	10.9	10.9	20.9	20.9	20.9

## Typical applications

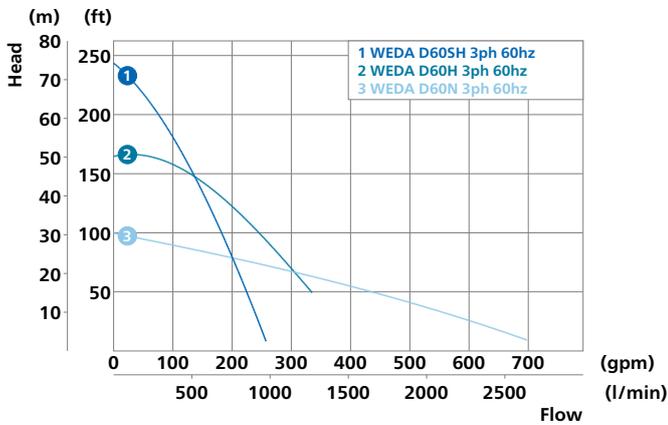
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

# Performance curves

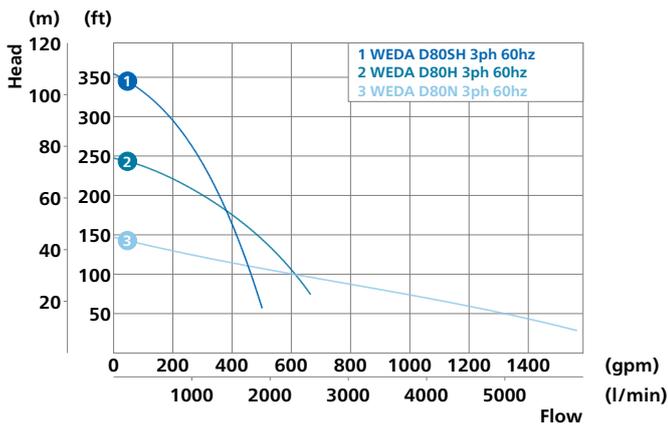
## WEDA D50



## WEDA D60



## WEDA D80



# WEDA D range

## Technical data



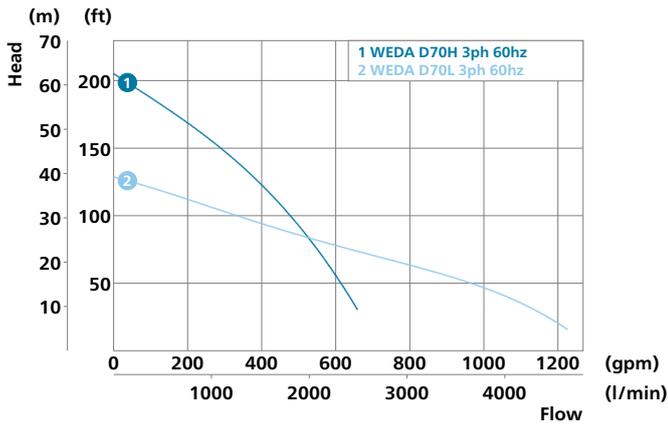
		WEDA D70L	WEDA D70H	WEDA D81N	WEDA D81H	WEDA D91N	WEDA D91H
SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	39	63	51	84	58	96
	ft	129	205	167	276	191	314
Max. flow	l/min	4650	2500	6190	3380	7110	4110
	m <sup>3</sup> /h	280	150	370	200	430	250
	gpm	1230	660	1630	890	1880	1090
Shaft speed	r.p.m.	3500	3500	3500	3500	3500	3500
Rated output	kW	13.4	13.4	23	23	30	30
	HP	18	18	31	31	40	40
Max. power input	kW	15.0	15.0	26	26	34	34
Discharge connection	mm	150	100	150	100	150	100
	inch	6	4	6	4	6	4
Max. solids handling size	mm	10.0	10.0	12.0	12.0	12.0	12.0
	inch	0.39	0.39	0.47	0.47	0.47	0.47
WEIGHT & DIMENSIONS							
Weight	kg	110	110	190	190	205	205
	lbs	244	244	422	422	456	456
Height	mm	943	943	1075	1075	1125	1125
	inch	37.1	37.1	42.3	42.3	44.3	44.3
Width	mm	415	393	465	440	465	440
	inch	16.3	15.5	18.3	17.3	18.3	17.3
Diameter	mm	370	370	425	425	425	425
	inch	14.6	14.6	16.7	16.7	16.7	16.7

## Typical applications

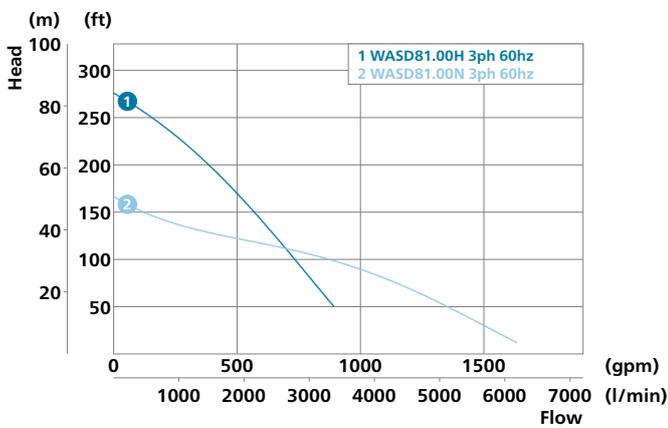
- General construction
- Ground water
- Raw water
- Construction sites
- Mining & Quarries
- Industrial dewatering
- Flooding & Emergency relief

# Performance curves

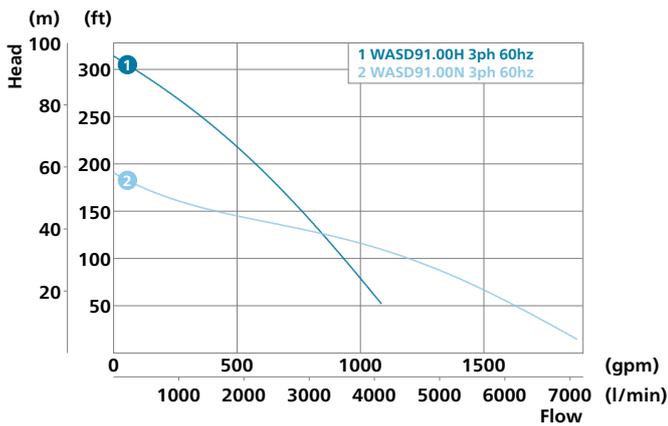
## WEDA D70



## WEDA D81



## WEDA D91



# WEDA D range

## Technical data



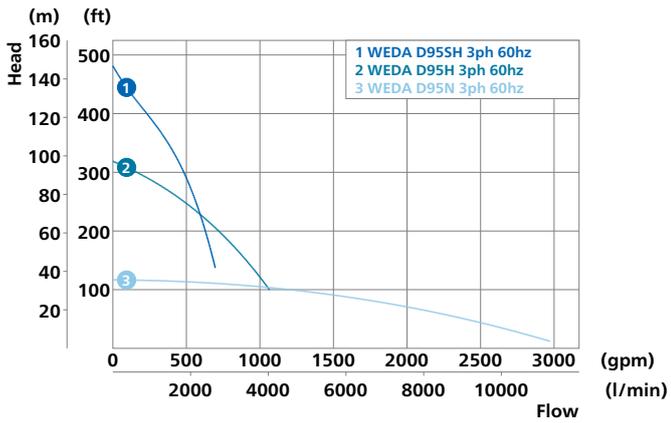
		WEDA D95N	WEDA D95H	WEDA D95SH	WEDA D100N
SPECIFICATIONS		3ph	3ph	3ph	3ph
Max. head	m	36	97	147	50
	ft	117	319	482	163
Max. flow	l/min	11270	4040	2640	18100
	m <sup>3</sup> /h	680	240	159	1090
	gpm	2980	1070	700	4780
Shaft speed	r.p.m.	3500	3500	3500	1750
Rated output	kW	43	43	43	69
	HP	58	58	58	92
Max. power input	kW	50	50	50	74
Discharge connection	mm	200	100	100	250
	inch	8	4	4	10
Max. solids handling size	mm	16.0	12.0	12.0	12.0
	inch	0.63	0.47	0.47	0.47
WEIGHT & DIMENSIONS					
Weight	kg	265	265	300	520
	lbs	589	589	667	1156
Height	mm	1330	1330	1350	1412
	inch	52.4	52.4	53.1	55.6
Width	mm	460	460	465	650
	inch	18.1	18.1	18.3	25.6
Diameter	mm	460	460	465	600
	inch	18.1	18.1	18.3	23.6

## Typical applications

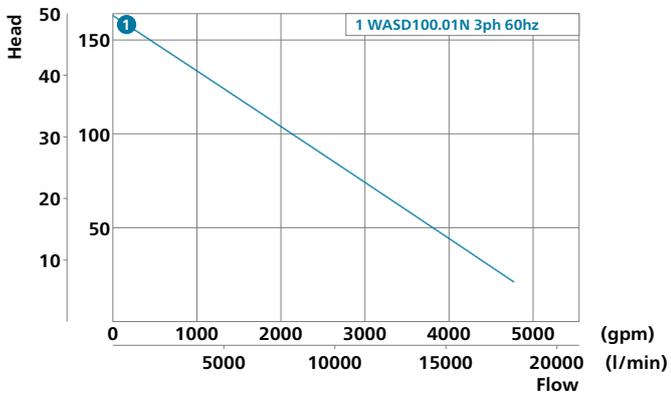
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

# Performance curves

## WEDA D95



## WEDA D100



# WEDA S range

## Technical data



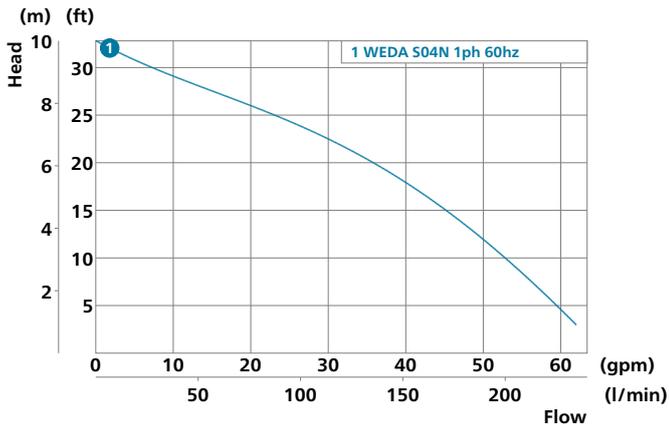
		WEDA S04N	WEDA S08N	WEDA S30N	WEDA S30N	WEDA S50N	WEDA S60N
SPECIFICATIONS		1ph	1ph	1ph	3ph	3ph	3ph
Max. head	m	10.0	15.1	15.9	17.6	26	30
	ft	33	50	52	58	87	97
Max. flow	l/min	240	250	860	950	1390	1590
	m <sup>3</sup> /h	14	15	52	57	83	95
	gpm	62	65	230	250	370	420
Shaft speed	r.p.m.	3500	3500	3500	3500	3500	3500
Rated output	kW	0.4	0.7	2.2	3.0	5.2	6.9
	HP	0.5	1.0	3.0	4.0	7.0	9.3
Max. power input	kW	0.7	1.2	2.9	3.9	6.2	8.0
Discharge connection	mm	50	50	75	75	100	100
	inch	2	2	3	3	4	4
Max. solids handling size	mm	25.0	25.0	50.0	50.0	50.0	50.0
	inch	1.0	1.0	2.0	2.0	2.0	2.0
WEIGHT & DIMENSIONS							
Weight	kg	11.0	13.0	25	25	59	65
	lbs	24	29	56	56	131	144
Height	mm	375	416	620	620	810	870
	inch	14.8	16.4	24.4	24.4	31.9	34.3
Width	mm	277	277	326	326	450	450
	inch	10.9	10.9	12.8	12.8	17.7	17.7
Diameter	mm	241	241	250	250	350	350
	inch	9.5	9.5	9.8	9.8	13.8	13.8

## Typical applications

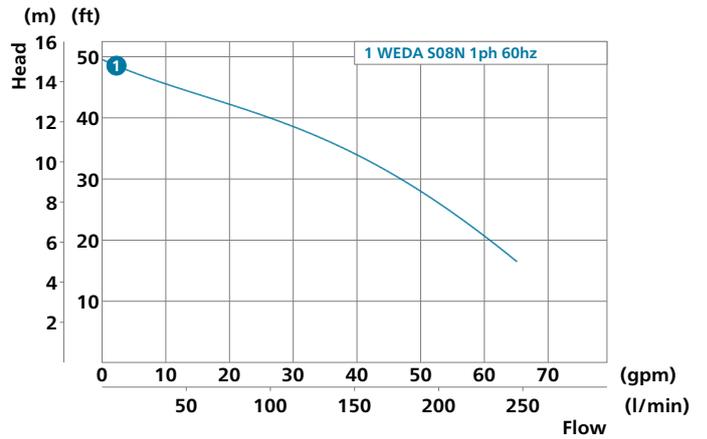
- Sludge or light slurry
- Tank clean-out
- Trench and pond cleaning
- Mining

# Performance curves

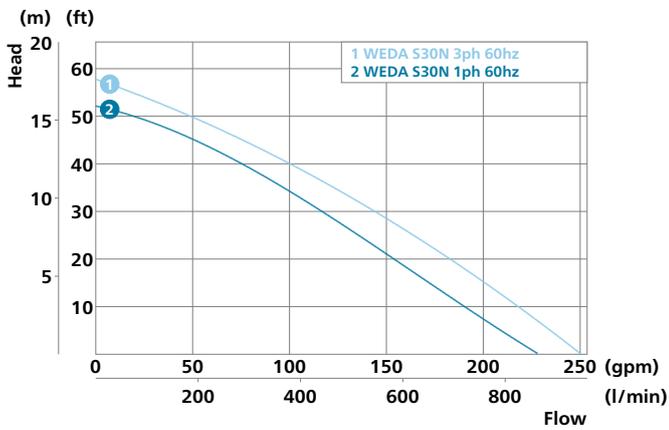
**WEDA S04N**



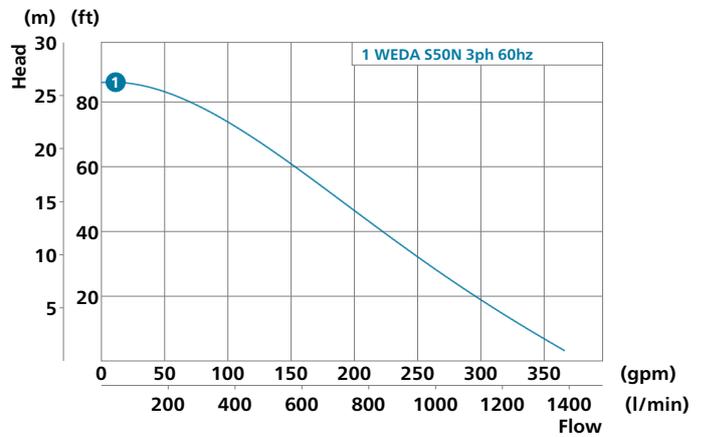
**WEDA S08N**



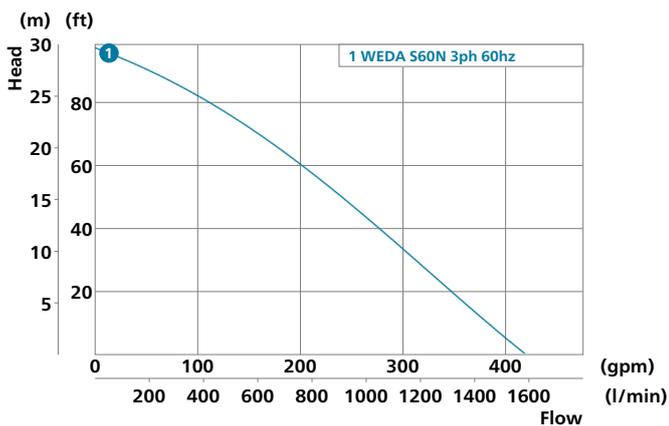
**WEDA S30N**



**WEDA S50N**



**WEDA S60N**



# WEDA L range

## Technical data



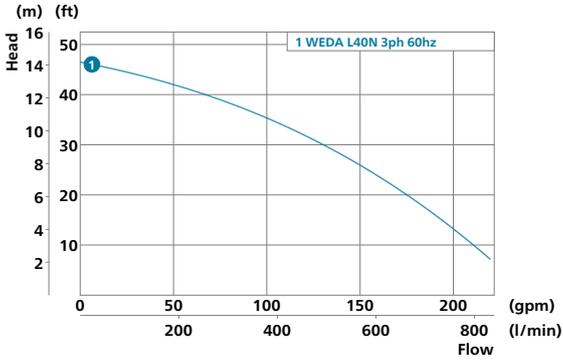
		WEDA L40N	WEDA L50N	WEDA L60N	WEDA L70N	WEDA L80N	WEDA L95N	WEDA L100N	WEDA L110N
SPECIFICATIONS		3ph	3ph						
Max. head	m	14.2	18.4	23	25	31	51	35	40
	ft	47	60	75	81	103	168	114	131
Max. flow	l/min	830	1330	1830	2000	3000	4500	9830	8330
	m <sup>3</sup> /h	50	80	110	120	180	270	590	500
	gpm	220	350	480	530	790	1190	2600	2200
Shaft speed	r.p.m.	1750	1750	1750	1750	1750	1750	1150	1750
Rated output	kW	3.7	5.5	9.0	11.0	15.0	37	45	75
	HP	5.0	7.4	12.1	14.8	20	50	60	101
Max. power input	kW	4.5	6.8	10.4	12.8	16.1	40	49	80
Discharge connection	mm	75	100	100	100	100	100	150	150
	inch	3	4	4	4	4	4	6	6
Max. solids handling size	mm	20.0	25.0	25.0	25.0	25.0	35.0	60.0	60.0
	inch	0.8	1.0	1.0	1.0	1.0	1.4	2.4	2.4
WEIGHT & DIMENSIONS									
Weight	kg	185	260	260	270	310	750	1005	1070
	lbs	411	578	578	600	689	1667	2233	2378
Height	mm	793	914	914	914	1080	1605	1605	1605
	inch	31.2	36.0	36.0	36.0	42.5	63.2	63.2	63.2
Width	mm	388	435	435	435	580	935	935	935
	inch	15.3	17.1	17.1	17.1	22.8	36.8	36.8	36.8
Diameter	mm	337	413	413	413	495	546	546	546
	inch	13.3	16.3	16.3	16.3	19.5	21.5	21.5	21.5

## Typical applications

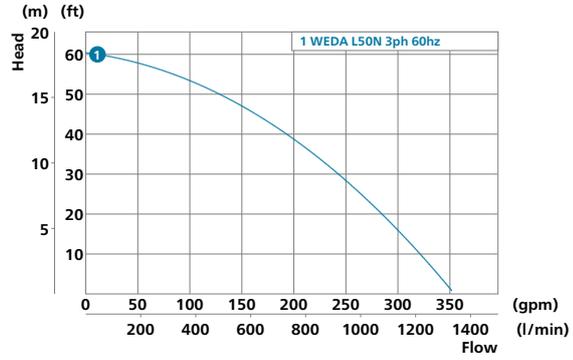
- Abrasive media with high solids content
- Mining and Quarries
- Dredging
- Settling ponds

# Performance curves

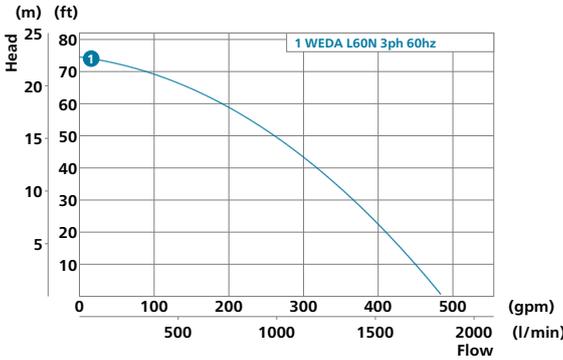
**WEDA L40N**



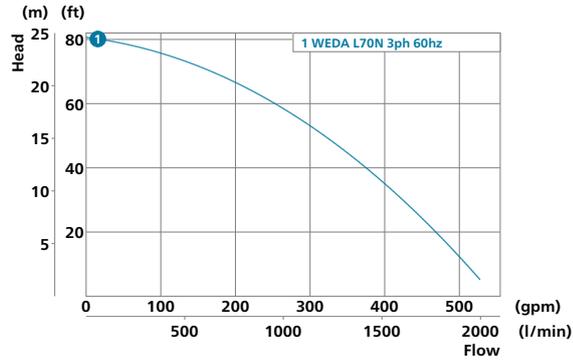
**WEDA L50N**



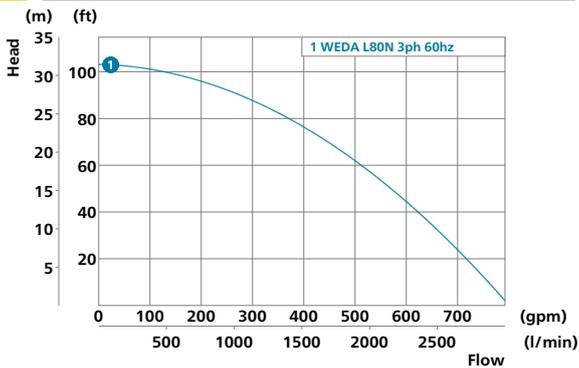
**WEDA L60N**



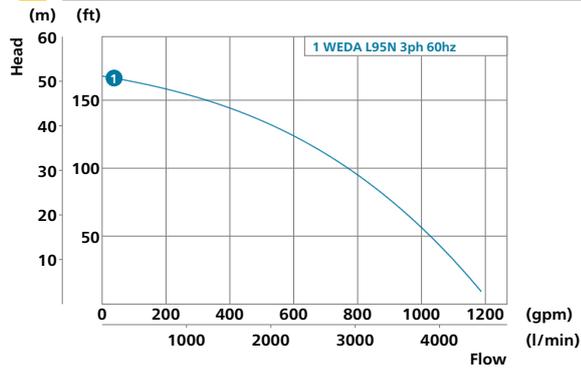
**WEDA L70N**



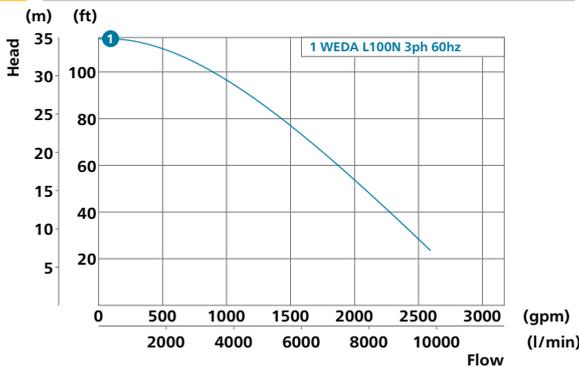
**WEDA L80N**



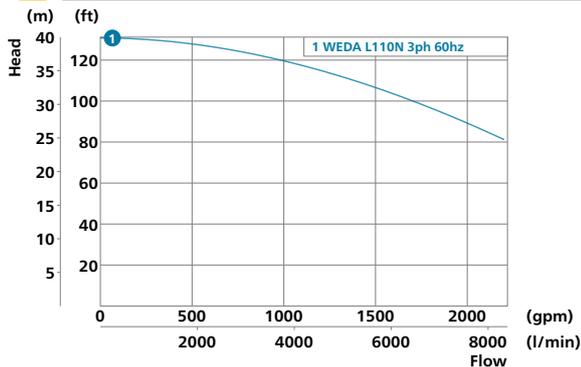
**WEDA L95N**



**WEDA L100N**



**WEDA L110N**



# WEDA Pumps in versatile applications

## CONSTRUCTION AND INFRASTRUCTURE



At construction sites dewatering pumps are used to remove unwanted surface water or for lowering ground water levels to allow for deeper excavations. Submersible sludge and slurry pumps are used to handle bentonite and other liquids containing larger and more abrasive particles.

Selecting the correct dewatering pump and system begins with an understanding of the characteristics of the construction site; required flow rate and head, liquid specifics such as type of liquid, pH, and solids content. This understanding will be important when selecting the correct type of pump for the job site.

The WEDA range of dewatering pumps is designed to handle liquids from clean water to dirty and abrasive liquids containing sludge or larger particles. The WEDA dewatering pumps come with built-in soft starters, unique and robust cartridge seal and the most wear resistant hydraulics.

## Civil Construction



## MINING & QUARRY



Dewatering pumps are used in several applications both in underground mines, open pit mines as well as quarries for the removal of water and to keep ground water at low levels. The main objective for dewatering pumps in a mine is to keep the site dry at all times to allow for safe and continuous operations.

Designing a dewatering system is one of the main challenges of mines today, this since water can be both scarce and expensive. The influx of water, the head requirements and liquid characteristics will determine the type of dewatering pumps to be used.

WEDA pumps are of the most robust design and capable of handling the most abrasive and tough applications. Available in high, super high head and high volume versions they are versatile for handling any dewatering requirements in quarries, open pit mines and underground mines.

## Face Dewatering



## OTHER INDUSTRIAL APPLICATIONS



There is a great need for using submersible dewatering pumps in industrial applications, both for temporary dewatering and for more permanent installations.

The selection of dewatering pumps is based on the liquid specifications together with the head and flow requirement. One of the advantages with submersible dewatering pumps is that they do not need fixed infrastructure or priming and can be installed submerged into the sump.

The WEDA pumps come with built-in soft starter eliminating the need for external panels making the installation quick and easy. Whether there is a need for pumping dirty water, sludge or slurry WEDA pumps offer a solution.

## Process Slurry Recirculation



**Stream Diversion**



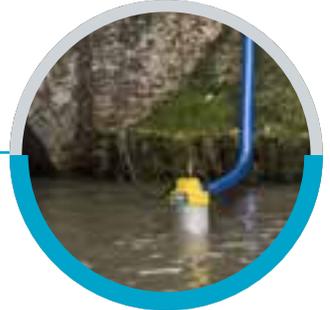
**Dredging**



**Tunneling**



**Water Intake**



**Stage Dewatering**



**Ramp Dewatering**



**Intermediate Pumping station**



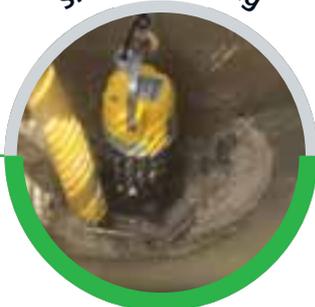
**Water Recovery / Intake**



**Sand-trap clean-out**



**Sludge Pumping**



**Emergency Relief**



**Fire brigades**



# Accessories

## DISCHARGE CONNECTIONS

We understand that there is a need and preference for different types of discharge connections and we offer four types. All can be mounted in either a vertical or horizontal position.



Hose



Storz



ISO-G



NPT

## SLIM ADAPTER

For lowering pumps in narrow pipes and manholes.



## LEVEL REGULATORS

For easy control of water level by automatic pump switch-on/-off:



## LOW SUCTION COLLAR

To easily drain the water level down to the floor.

## RAFT

For easy floatation of pump with fluctuating water levels and to keep the pump in a suspended position. Strainer option available.



## ZINC ANODES

Specifically required for pumping water with a high concentration of salts such as seawater, brine, etc.



# Service

## SERVICE NETWORK

With a global network of sales channels, distributors, service workshops and partners, pumps can be kept in working condition, ready to deal with tomorrow's challenge.

## SEAL KIT

The seal kit is the proper selection of high quality components for a mechanical seal change to ensure trouble-free operation after servicing.

- O-ring kit
- Mechanical shaft seal



## WEAR PART KIT

The wear part kit is a typical selection of components to bring the pump performance back to factory standard. The ideal solution for a machine overhaul or refurbishment.

- Impeller
- Wear plate
- Diffuser

\*Some features and options on selected models only.



**Built better.  
Built to resist.  
Built to perform.**

# Power Technique Solutions Portfolio

Atlas Copco's Power Technique Business Area has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

## Air compressors

### Ready to go



- 95-250 cfm
- 58-150 psi

### Versatility



- 400-900 cfm
- 58-200 psi
- \*Diesel and electric options available

### Productivity partner



- 950-1800 cfm
- 100-508 psi
- \*1000-5000 psi with Boosters

## Generators

### Portable



- 1.6 - 6.5 kVA

### Mobile



- 25-1450\* kVA

### Energy Storage System



- 250-500\* kVA



- 30-40\* kVA

## Dewatering pumps

### Electric submersible



- up to 4,780 GPM

### Surface Pumps



- up to 9,100 GPM

## Light towers

### LED



- up to 31,000 sqft of light coverage

**NOTE:**  
See individual product reference sheets for full performance details.

Photos and illustrations contained herein might depict products with optional and/or extra components which are not included with the standard version of the product and, therefore, are not included in a purchase of such product unless the customer specifically purchases such optional/extra components. We reserve the right to change the specifications and design of products described in this literature without notice. Not all products are available in all markets.

**Atlas Copco**

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