



Arihant Dewatering Systems



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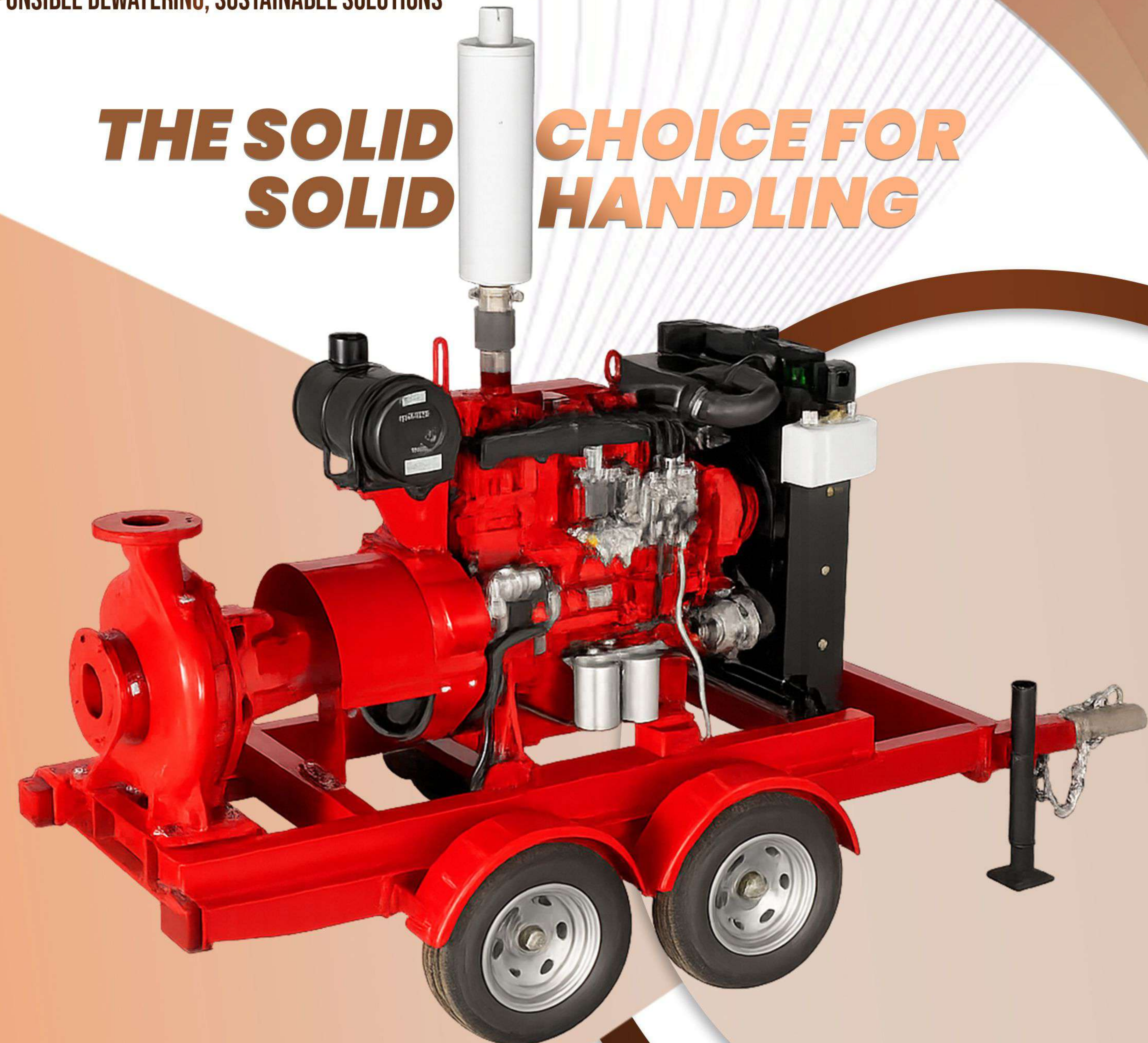
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RESPONSIBLE DEWATERING, SUSTAINABLE SOLUTIONS

**THE SOLID CHOICE FOR
SOLID HANDLING**



**ADS SW
SERIES PUMP**

www.arihantdewatering.com

ADS SW SERIES PUMPS

Reliable High Head Centrifugal Pumps

The ADS SW Series is a family of heavy-duty solids handling centrifugal pumps designed to move large volumes of water and slurry-laden fluids at medium heads, even under challenging suction conditions. Built with wide passage hydraulics, these pumps handle sewage, effluent, and high solid contents without choking, making them ideally suited for municipal and industrial wastewater duties.

Each pump can be supplied as a fully integrated, skid-mounted package with engine or motor prime mover and simple NRV-based priming, ensuring reliable start-up even in contaminated water. Their robust design with replaceable wear parts guarantees long service life, while trailer/skid mounting provides fast mobilization to site.

From sewage bypass pumping during infrastructure upgrades, to effluent handling in industries, mine dewatering with suspended solids, and emergency

ADS SW SERIES PUMPS

Reliable High Head Centrifugal Pumps

flood control, the SW Series provides unmatched dependability where solid-laden water movement is critical. Backed by ADS's dual model of supply and managed rental services, these pumps offer both long-term reliability and rapid-response solutions for urgent needs.

ADS SW SERIES PUMPS

Technical Specifications

Pump Model	Suction × Delivery (mm)	Prime Mover Capacity	Max Head (m)	Max. Flow (m³/h)	Solids Handling	Duty Point (Flow@Head)	Mounting	Impeller Type
SW-20	100 × 100	20 HP / 15 kW	21	320	60	200 m³/h @ 15 m	Skid/Trailer	Semi open/Channel
SW-30	150 × 150	30 HP / 22.5 kW	21	520	75	300 m³/h @ 18 m	Skid/Trailer	Semi open/Channel
SW-80	200 × 200	80 HP / 60 kW	31	840	105	500 m³/h @ 25 m	Skid/Trailer	Semi open/Channel

PRODUCT OVERVIEW

The ADS SW-20 is a heavy-duty solids-handling centrifugal pump designed to deliver large volumes of water at medium heads. With a suction and delivery size of 100 × 100 and solids handling capacity up to 60 mm, this pump is well-suited for demanding applications involving raw water, stormwater, sewage, and mine dewatering.

The pump is integrated into a skid-mounted package and can be coupled with a diesel engine for mobile deployment on a two-wheel towable trailer. Equipped with NRV-based auto priming, the SW Series eliminates the need for vacuum priming systems and ensures reliable operation in challenging site conditions.

MATERIAL OF Construction ADS SW-20

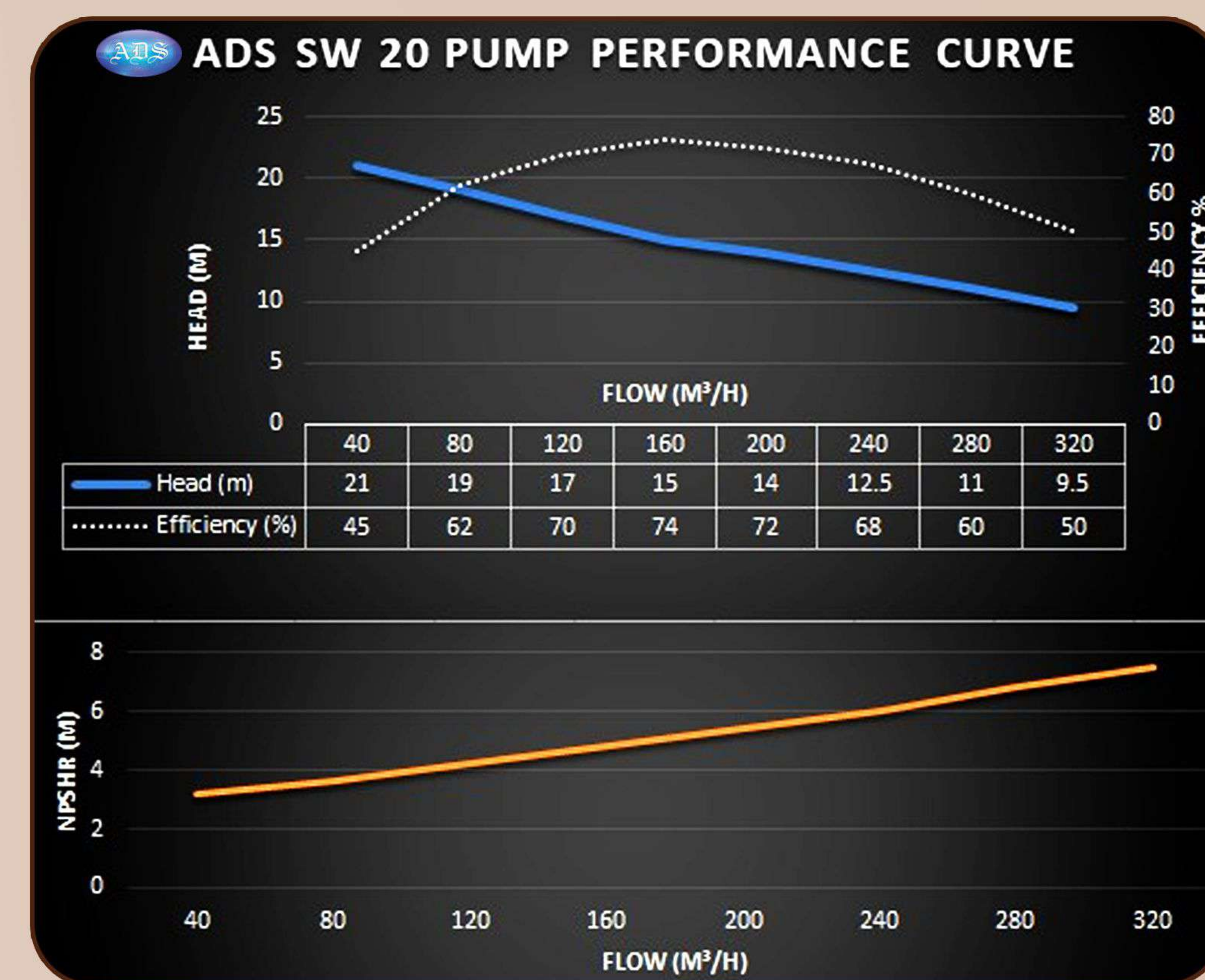
COMPONENT	STANDARD MATERIAL
Casing (Volute)	Cast Iron (FG 260) / Ductile Iron
Impeller	Cast Iron / Bronze (Semi-open type for solids)
Shaft	Stainless Steel (SS 410 / SS 420)
Shaft Sleeve	Stainless Steel (Hardened)
Wear Rings	Bronze / Cast Iron (replaceable)
Bearing Housing	Cast Iron
Gland Packing / Mechanical Seal	Graphite / PTFE packing or Mechanical Seal
Fasteners	Carbon Steel / SS as required

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Model	SW-20	Flow Range (m³/h)	40 – 320
Suction × Delivery (mm)	100 × 100	Head Range (m)	9 – 21
Solids Handling (mm)	60	Priming System	NRV Auto Priming
Mounting	Two-wheel towable trailer/skid mounted	Prime Mover	Diesel Engine/Electric Motor
Prime Mover Capacity	20HP/15KW	Operating Speed	1500 RPM
Hydrostatic Pressure Test	3.75 BAR		

PUMP PERFORMANCE Curve

The performance curve below shows Head vs Flow for the ADS SW-20 pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS SW-30 is a heavy-duty solids-handling centrifugal pump designed to deliver large volumes of water at medium heads. With a suction and delivery size of 150 × 150 and solids handling capacity up to 75 mm, this pump is well-suited for demanding applications involving raw water, stormwater, sewage, and mine dewatering.

The pump is integrated into a skid-mounted package and can be coupled with a diesel engine for mobile deployment on a two-wheel towable trailer. Equipped with NRV-based auto priming, the SW Series eliminates the need for vacuum priming systems and ensures reliable operation in challenging site conditions.

MATERIAL OF CONSTRUCTION ADS SW-30

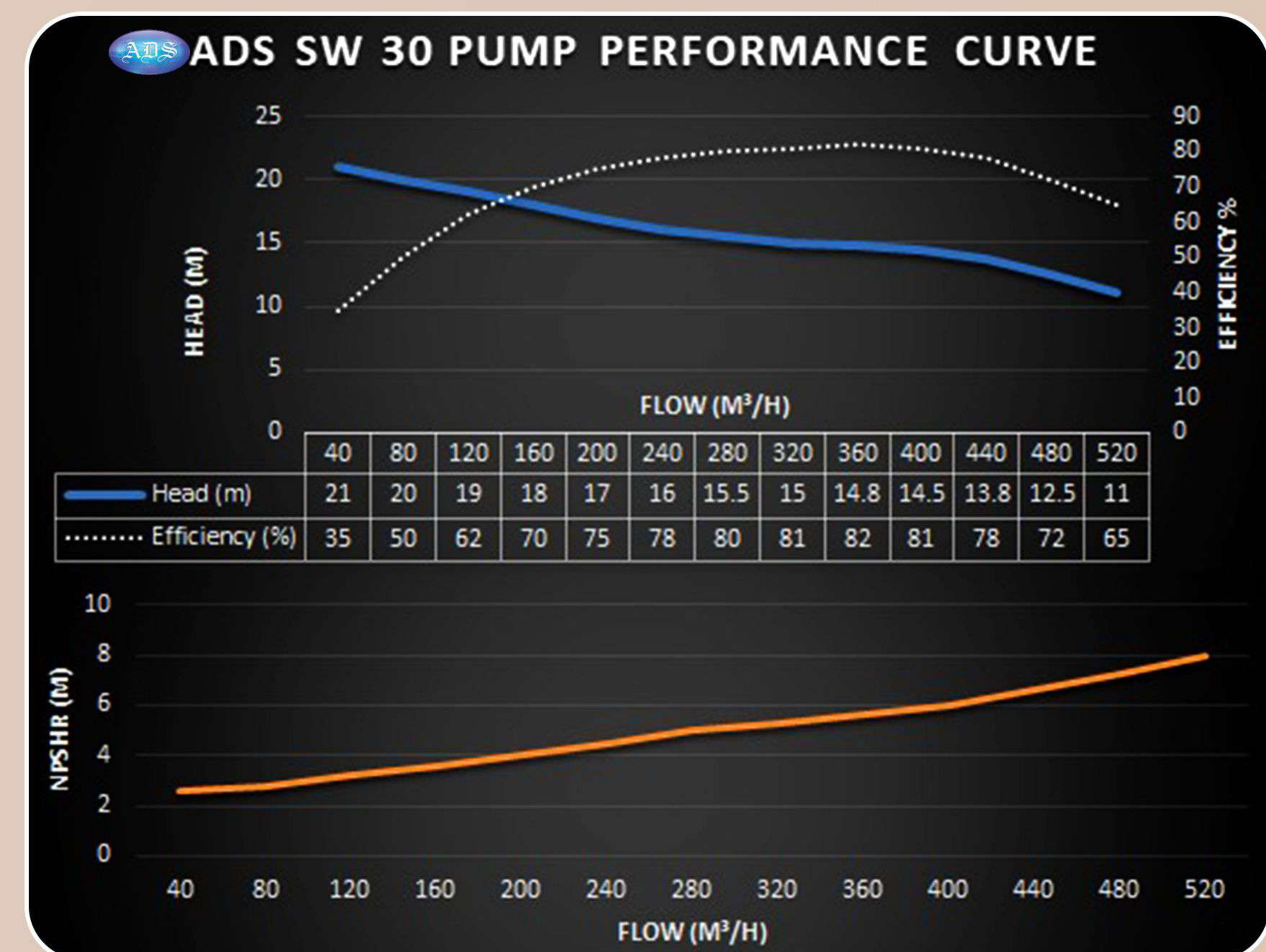
COMPONENT	STANDARD MATERIAL
Casing (Volute)	Cast Iron (FG 260) / Ductile Iron
Impeller	Cast Iron / Bronze (Semi-open type for solids)
Shaft	Stainless Steel (SS 410 / SS 420)
Shaft Sleeve	Stainless Steel (Hardened)
Wear Rings	Bronze / Cast Iron (replaceable)
Bearing Housing	Cast Iron
Gland Packing / Mechanical Seal	Graphite / PTFE packing or Mechanical Seal
Fasteners	Carbon Steel / SS as required

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Model	SW-30	Flow Range (m³/h)	40 – 520
Suction × Delivery (mm)	150 × 150	Head Range (m)	12 – 21
Solids Handling (mm)	75	Priming System	NRV Auto Priming
Mounting	Two-wheel towable trailer	Prime Mover	Diesel Engine/Electric Motor
Prime Mover Capacity	30HP/22.5 KW	Operating Speed	1500 RPM
Hydrostatic Pressure Test	3.75 BAR		

PUMP PERFORMANCE Curve

The performance curve below shows Head vs Flow for the ADS SW-30 pump at 1500 rpm.



PRODUCT OVERVIEW

The ADS SW-80 is a heavy-duty solids-handling centrifugal pump designed to deliver large volumes of water at medium heads. With a suction and delivery size of 200 × 200 and solids handling capacity up to 105 mm, this pump is well-suited for demanding applications involving raw water, stormwater, sewage, and mine dewatering.

The pump is integrated into a skid-mounted package and can be coupled with a diesel engine for mobile deployment on a two-wheel towable trailer. Equipped with NRV-based auto priming, the SW Series eliminates the need for vacuum priming systems and ensures reliable operation in challenging site conditions.

MATERIAL OF Construction ADS SW-80

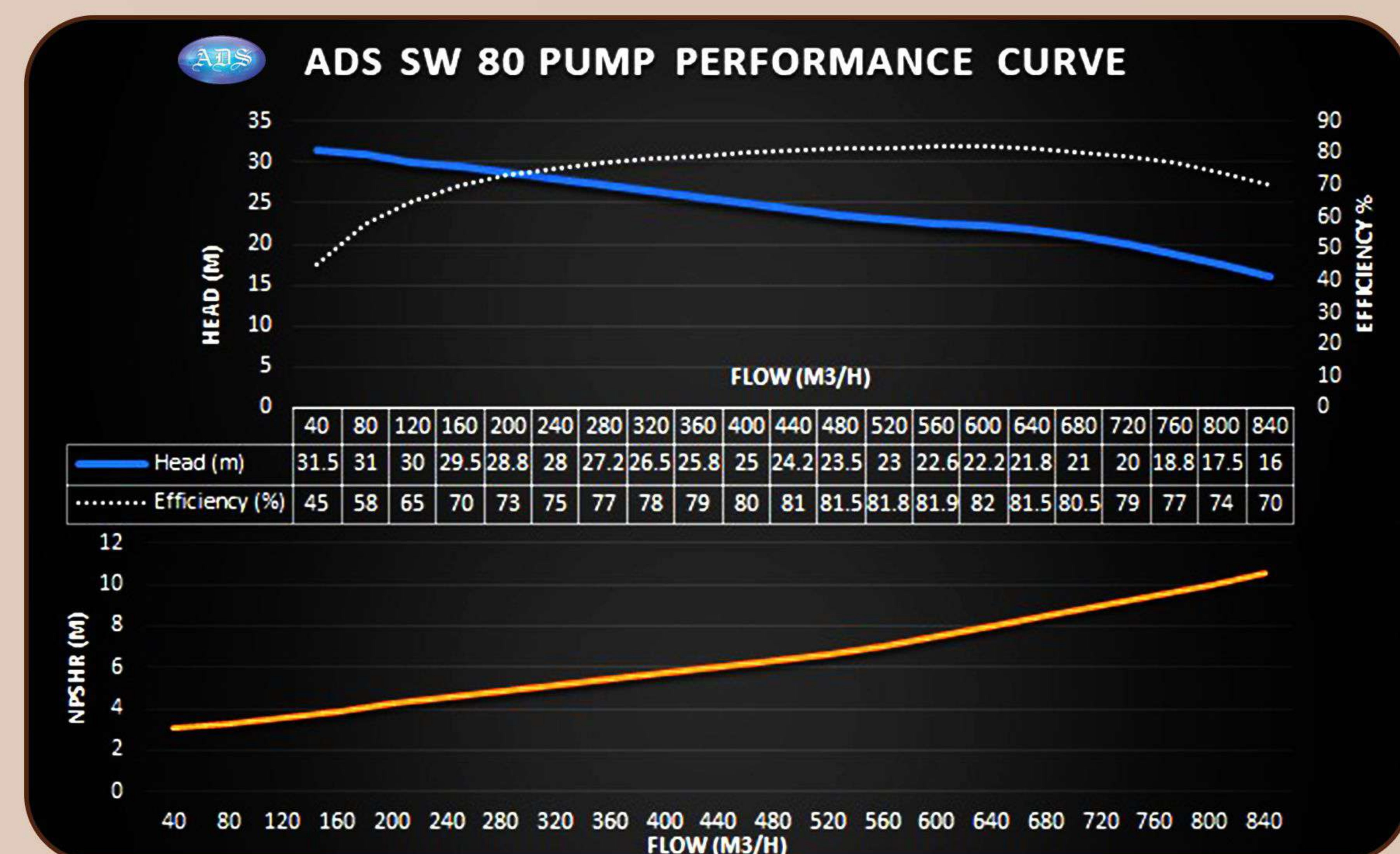
COMPONENT	STANDARD MATERIAL
Casing (Volute)	Cast Iron (FG 260) / Ductile Iron
Impeller	Cast Iron / Bronze (Semi-open type for solids)
Shaft	Stainless Steel (SS 410 / SS 420)
Shaft Sleeve	Stainless Steel (Hardened)
Wear Rings	Bronze / Cast Iron (replaceable)
Bearing Housing	Cast Iron
Gland Packing / Mechanical Seal	Graphite / PTFE packing or Mechanical Seal
Fasteners	Carbon Steel / SS as required

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Model	SW-80	Flow Range (m³/h)	40 – 840
Suction × Delivery (mm)	200 × 200	Head Range (m)	16 – 31
Solids Handling (mm)	105	Priming System	NRV Auto Priming
Mounting	Two-wheel towable trailer/Skid Mounted	Prime Mover	Diesel Engine/Electric Motor
Prime Mover Capacity	5.25 Bar	Prime Mover Capacity	80HP/60KW
Hydrostatic Pressure Test			

PUMP PERFORMANCE Curve

The performance curve below shows Head vs Flow for the ADS SW-80 pump at 1500 rpm.



DESIGN Features

- High solids handling capacity with semi-open impeller design
- Reliable priming with simple NRV system (no vacuum pump required)
- Skid- or trailer-mounted for easy site mobility
- Replaceable wear parts for extended service life
- Rugged construction suitable for sewage and effluent pumping
- Available in supply and rental models with complete O&M support

Applications

- Sewage bypass pumping during municipal works
- Industrial effluent pumping
- Mine dewatering with suspended solids
- Storm water & flood control
- Infrastructure projects requiring solids-laden water movement
- Emergency contingency pumping

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WHY CHOOSE ADS?

- 25+ years of dewatering and pumping expertise
- 400+ successful deployments across India
- Trusted by NTPC, L&T, NHPC, Adani, Tata Projects, and more
- Reliable supply and rental solutions with rapid mobilization

SUPPLY VS RENTAL Offerings

Supply (Sales): Designed for permanent installations in power plants, industries, and utilities, configured for site-specific conditions.

Rental (With O&M): Fully managed pumping packages provided on hire with operation, running, and maintenance under ADS scope—ideal for contingency works and emergency deployments.

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