



## ePRO Series Electric Drum Pumps





ARO® is a worldwide manufacturer of fluid management products that are skillfully engineered to deliver performance and serviceability, allowing success to flow freely in our customers' businesses. That's why ARO is fluid intelligence—the smart choice in fluid management products for industrial operations. With over an 90-year legacy of premier product performance and service excellence, ARO provides fluid management equipment for customers and industries around the globe, including chemical, manufacturing, energy, pharmaceutical, mining and more.

ARO has the right product to meet our customers' specific needs. We offer air-operated diaphragm pumps, electric diaphragm pumps, piston pumps and packages, drum pumps, filters, regulators, and lubricators (FRLs), lubrication equipment, and pneumatic valves and cylinders.

### **Product and Technical Support**

Every ARO product is backed by a highly qualified team of engineers dedicated to designing products that promote success around the world. Because ARO products are built to be as simple as they are smart, customers benefit from efficient operation and high performance for the best total cost of ownership.

**At ARO we make success flow**

# Drum Pumps General Information

Drum pump tubes are available in a range of durable materials, including polypropylene (PP), polyvinylidene fluoride (PVDF), stainless steel, and aluminum. For demanding applications, robust drive shafts are offered in stainless steel and Hastelloy C-4. A wide selection of pump tube lengths, motor options, and dispensing kits allows for flexible configurations tailored to the specific needs of your operation.

- Electrically operated – up to 850 W, continuous duty motors capable of heavy load
- Seal-less design – for aggressive, low-viscosity media
- No inner tube – easily accessible drive shaft, easy to clean, no dead spaces, stable drive shaft
- 8 mm drive shaft – available in stainless steel and Hastelloy C-4, which stands up to demanding applications and corrosive environments without failure
- Multi-stage design – higher pressure, less wear, and lower noise
- Quick-release coupling – coupling in seconds, only ¼ turn, robust design, curved-tooth coupling, suitable for aggressive environments
- Stainless steel pump head – robust design for long life and continuous use

## Low maintenance costs

- Robust, easily replaceable clutch
- Reinforced immersion tubes
- Strong drive shaft
- Stainless steel for stressed parts
- Seal-less pumping stations available
- No threading issues

## Low operating costs

- Quick connection and disconnection of the motor via bayonet lock, locking bracket or quick-release coupling

## No shaft guide tube

- Exposed drive shaft
- Easy to clean
- No dead spaces

## Enhanced safety

- Stable motor-pumping unit connection

## Quick Connect System



- 1/4 turn bayonet lock
- Robust design
- Stable curved tooth clutch
- Suitable for aggressive environments



# For Every Application and Industry— The Right Drum Pump Solution

ARO drum pumps are engineered for reliable, efficient, and safe fluid handling across a wide spectrum of industries. Whether you're transferring neutral liquids, aggressive chemicals, or viscous media, ARO offers the ideal pump solution tailored to your needs.

## Versatile Applications Across Industries

ARO drum pumps are trusted in industries such as:

- **Chemical & Petrochemical** – Safely handle corrosive and hazardous fluids.
- **Pharmaceutical & Cosmetics** – Ensure hygienic transfer with easy-to-clean stainless steel options.
- **Food & Beverage** – Maintain product integrity with sanitary-grade materials.
- **Paints, Coatings & Surface Technology** – Efficiently manage viscous and abrasive substances.
- **Water & Wastewater Treatment** – Safeguarding the environment and meeting regulatory compliance
- **General Industry & Farming** – Adaptable solutions for oils, adhesives, and agricultural chemicals.

## Designed for Mobile and Modular Use

ARO axial-impeller drum and container pumps offer pulsation-free pumping, ideal for mobile filling of low-viscosity and aggressive media. Their lightweight and modular design allows easy transport and quick changeover between containers, minimizing downtime.

- High-flow and high-pressure versions available
- Options with or without mechanical seals
- Quick motor to pump interchangeability

ARO drum pumps are engineered to deliver dependable performance across a wide range of industrial applications. With a variety of models available, we offer the right solution to meet your specific fluid handling needs—efficiently and safely.



Chemical



Industry



Surface  
Technology



Paints &  
Lacquers



Petro  
Chemicals



Cosmetics



Pharmaceutical



Water  
Treatment



Agriculture

# Dispensing Kits

## Basic Set

- For short and occasional use
- For low-viscosity, non-flammable liquids, diluted acids and alkalis



### Contents of delivery

- 1 x 520 W Motor
- 1 x 1200 mm polypropylene pump tube with axial impeller, stainless steel drive shaft, and polypropylene barrel adapter
- 1 x Basic set dispense kit which includes DN19 polypropylene nozzle, 2 m DN25 reinforced PVC hose, 2 stainless steel hose clamps and PP hose connector
- 1 x Wall bracket for motor (recommended)

## All-Purpose Set

- For frequent use and long operating times
- For concentrated acids and alkalis



### Contents of delivery

- 1 x 850 W Motor
- 1 x 1200 mm polypropylene pump tube with radial impeller, Hastelloy C-4 shaft, and polypropylene barrel adapter
- 1 x All-around dispense kit which includes DN25 polypropylene nozzle, 2 m DN25 reinforced PVC hose, 2 stainless steel hose clamps and PP hose connector
- 1 x Wall bracket for motor (recommended)

## Chemistry Set

- For frequent use and long operating times
- For almost all low-viscosity, non-flammable chemicals



### Contents of delivery

- 1 x 850 W Motor
- 1 x 1200 mm PVDF pump tube with axial impeller, Hastelloy C-4 shaft, and polypropylene barrel adapter
- 1 x Chemical dispense kit which includes DN32 PVDF nozzle, 2 m DN25 universal chemical hose, 2 stainless steel hose clamps and PVDF hose connector
- 1 x Wall bracket for motor (recommended)

## Workshop Set

- For frequent use and long operating times
- For non-flammable liquids around the car



### Contents of delivery

- 1 x 850 W Motor
- 1 x 1200 mm aluminum pump tube with axial impeller, stainless steel shaft, and polypropylene barrel adapter
- 1 x Workshop dispense kit which includes DN25 aluminum nozzle, 2 m DN25 reinforced PVC hose, 2 stainless steel hose clamps and PVDF hose connector
- 1 x Wall bracket for motor (recommended)

Technical Data				
	BASIC SET	ALL-PURPOSE SET	CHEMISTRY SET	WORKSHOP SET
Delivery Rate	Up to 85 l/min	Up to 95 l/min	Up to 105 l/min	
Performance	520 W Continuous Duty	850 W Continuous Duty		
Voltage	230 V			
Immersion depth:	1200 mm			

## Ordering Info.

ITEM	PART NO.			
Motor	DE5A3	DE8A3	DE8A3	DE8A3
Pump Tube	4000-PAS-12	4000-PRH-12	4000-KAH-12	4000-AAS-12
Dispense Kit	637590-B	637590-A	637590-C	637590-W
Wall Bracket	FHP10007	FHP10007	FHP10007	FHP10007

Additional motors and pump tubes available to meet your needs. Contact us for specific application.

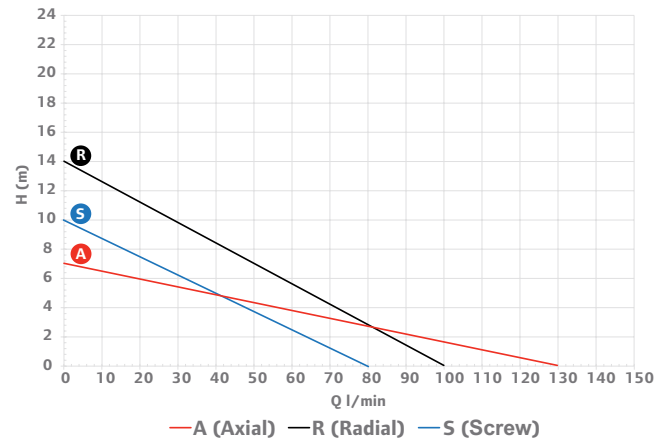
# Motors

## 520 W - Continuous Duty



- Short and occasional use
- For light and low-viscosity media
- 1/4 turn bayonet lock works with all pump tubes
- Optional with SR: control motor speed to adjust flow rate
- Optional with LVR: low voltage release to prevent motor from starting automatically after a loss of power
- Cable length: 5 m

### Characteristic Curve



Technical data	
Power	520 W
Voltage	230 V
Protection class	IP 24
Duty	S1 Continuous
Weight	3.5 kg

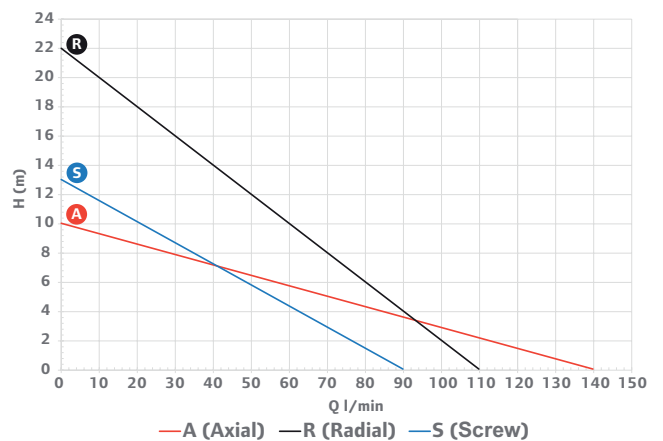
520 Watt	
ITEM	PART NO.
Standard	DE5A3
With SR	DE5A4
With LVR	DE5A1
With SR & LVR	DE5A2

## 850 W - Continuous Duty



- Powerful motor for all applications
- Works with axial, radial, and screw impellers in a wide range of applications
- 1/4 turn bayonet lock works with all pump tubes
- Optional with SR: control motor speed to adjust flow rate
- Optional with LVR: low voltage release to prevent motor from starting automatically after a loss of power
- Cable length: 5 m

### Characteristic Curve



Technical data	
Power	850 W
Voltage	230 V
Protection class	IP 24
Duty	S1 Continuous
Weight	4 kg

850 Watt	
ITEM	PART NO.
Standard	DE8A3
With SR	DE8A4
With LVR	DE8A1
With SR & LVR	DE8A2

## Options for Motors



### LVR

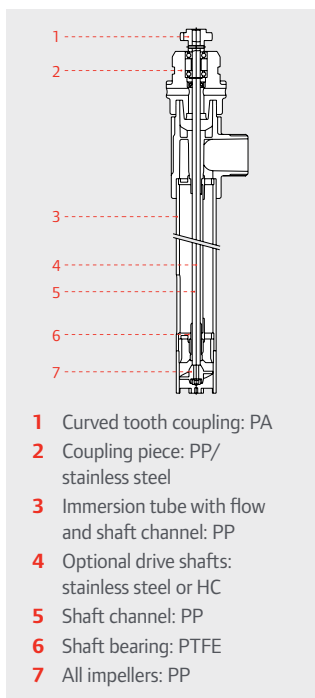
- Low voltage release release for increased safety after failure
- Prevents uncontrolled restarting of the pump



### SR

- Speed controller for easy volume flow adjustment

# Pump Tubes & Impellers



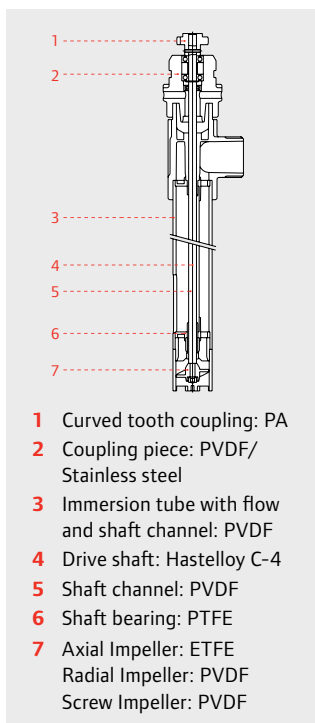
## Polypropylene Pump Tubes - Seal-less

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE5XX motor	DE5XX motor	DE5XX motor
Max. Delivery Rate <sup>1</sup> Q:	130 l/min	100 l/min	80 l/min
Max. Delivery Head H:	7 mWs	14 mWs	10 mWs
Max. Density $\phi$ :	1.3 kg/l	1.6 kg/l	1.3 kg/l
Max. Viscosity $\eta$ :	300 mPas	250 mPas	300 mPas
Max. Temperature:	50°C	50°C	50°C
Weight:	1.5 kg	1.5 kg	1.5 kg

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE8XX motor	DE8XX motor	DE8XX motor
Max. Delivery Rate <sup>1</sup> Q:	140 l/min	110 l/min	90 l/min
Max. Delivery Head H:	10 mWs	22 mWs	13 mWs
Max. Density $\phi$ :	1.6 kg/l	2 kg/l	1.6 kg/l
Max. Viscosity $\eta$ :	800 mPas	700 mPas	800 mPas
Max. Temperature:	50°C	50°C	50°C
Weight:	1.5 kg	1.5 kg	1.5 kg

Foot valve, foot strainer, and other accessories available

<sup>1</sup> Measurement under ideal conditions without pipe friction resistance. Basis: 1 mPas, 20°C, +/- 10%



## PVDF - Seal-less

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic curve:	DE5XX motor	DE5XX motor	DE5XX motor
Max. Delivery rate <sup>1</sup> Q:	130 l/min	100 l/min	80 l/min
Max. Delivery rate Q:	7 mWs	14 mWs	10 mWs
Max. Density $\phi$ :	1.3 kg/l	1.6 kg/l	1.3 kg/l
Max. Viscosity $\eta$ :	300 mPas	250 mPas	300 mPas
Max. temperature:	80°C	80°C	50°C
Weight:	2 kg	2 kg	1.5 kg

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE8XX motor	DE8XX motor	DE8XX motor
Max. Delivery rate <sup>1</sup> Q:	140 l/min	110 l/min	90 l/min
Max. Delivery head H:	10 mWs	22 mWs	13 mWs
Max. Density $\phi$ :	1.6 kg/l	2.0 kg/l	1.6 kg/l
Max. Viscosity $\eta$ :	800 mPas	700 mPas	800 mPas
Max. temperature:	80°C	80°C	80°C
Weight:	2 kg	2 kg	2 kg

Foot valve, foot strainer, and other accessories available

<sup>1</sup> Measurement under ideal conditions without pipe friction resistance. Basis: 1 mPas, 20°C, +/- 10%



## Impeller Types

### Axial Impeller



- Single-stage
- For large volume flow

### Radial Impeller

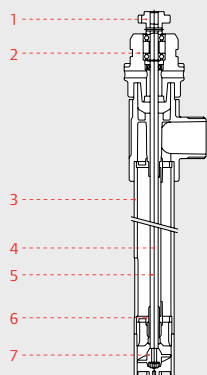


- Multi-stage
- Capable of higher discharge pressure
- Low sound level
- With foot valve for better residual emptying

### Screw Impeller



- With screw conveyor for medium viscosity media ( $\eta > 200$  mPas) when conventional conveying elements reach their limits of use



- 1 Curved tooth coupling: PA
- 2 Coupling piece: Aluminum
- 3 Immersion tube with flow and shaft channel: Aluminum
- 4 Drive shaft: Stainless steel
- 5 Shaft channel: Aluminum
- 6 Shaft bearing: Carbon
- 7 Axial Impeller: ETFE  
Radial Impeller: PVDF  
Screw Impeller: PA

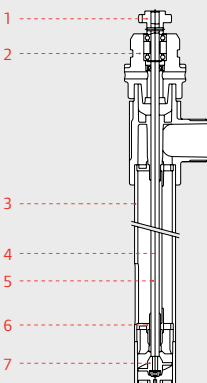
## Aluminum - Seal-less

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE5XX motor	DE5XX motor	DE5XX motor
Max. Delivery Rate <sup>1</sup> Q:	130 l/min	100 l/min	80 l/min
Max. Delivery Head H:	7 mWs	19 mWs	10 mWs
Max. Density ϕ:	1.3 kg/l	1.6 kg/l	1.3 kg/l
Max. Viscosity η:	300 mPas	250 mPas	300 mPas
Max. Temperature:	80°C	80°C	50°C
Weight:	1.5 kg	1.5 kg	1.5 kg

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE8XX motor	DE8XX motor	DE8XX motor
Max. Delivery Rate <sup>1</sup> Q:	140 l/min	110 l/min	90 l/min
Max. Delivery Head H:	10 mWs	23 mWs	13 mWs
Max. Density ϕ:	1.6 kg/l	2.0 kg/l	1.6 kg/l
Max. Viscosity η:	800 mPas	700 mPas	800 mPas
Max. Temperature:	80°C	80°C	80°C
Weight:	1.5 kg	1.5 kg	1.5 kg

Foot valve, foot strainer, and other accessories available

<sup>1</sup> Measurement under ideal conditions without pipe friction resistance. Basis: 1 mPas, 20°C, +/- 10%



- 1 Curved tooth coupling: PA
- 2 Coupling piece: Stainless Steel
- 3 Immersion tube with flow and shaft channel: Stainless Steel
- 4 Drive shaft: Stainless Steel
- 5 Shaft channel: Stainless Steel
- 6 Shaft bearing: carbon
- 7 Axial Impeller: ETFE  
Radial Impeller: PVDF  
Screw Impeller: PVDF

## Stainless Steel - Seal-less

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE5XX motor	DE5XX motor	DE5XX motor
Max. Delivery Rate <sup>1</sup> Q:	130 l/min	100 l/min	100 l/min
Max. Delivery Head H:	8 mWs	19 mWs	14 mWs
Max. Density ϕ:	1.3 kg/l	1.6 kg/l	1.3 kg/l
Max. Viscosity η:	300 mPas	250 mPas	250 mPas
Max. Temperature:	100°C	100°C	100°C
Weight:	3 kg	3 kg	3 kg

PUMPING STATION	Axial Impeller	Radial Impeller	Screw Impeller
Characteristic Curve:	DE8XX motor	DE8XX motor	DE8XX motor
Max. Delivery Rate <sup>1</sup> Q:	140 l/min	110 l/min	110 l/min
Max. Delivery Head H:	10 mWs	22 mWs	13 mWs
Max. Density ϕ:	1.6 kg/l	2 kg/l	1.6 kg/l
Max. Viscosity η:	800 mPas	700 mPas	800 mPas
Max. Temperature:	100°C	100°C	100°C
Weight:	3 kg	3 kg	3 kg

Foot valve, foot strainer, and other accessories available

<sup>1</sup> Measurement under ideal conditions without pipe friction resistance. Basis: 1 mPas, 20°C, +/- 10%



## Ordering

Position	1		2	3	4		5
Example:	4000	-	X	X	X	-	X

Position 1 Model Series	Position 2 Tube Material	Position 3 Impeller Type	Position 4 Drive Shaft Material	Position 5 Immersion Depth (Tube Length)
4000	A - Aluminum K - PVDF P - Polypropylene S - Stainless Steel	A - Axial R - Radial S - Screw	H - Hastelloy S - Stainless Steel	07 - 700 mm 10 - 1000 mm 12 - 1200 mm

Some combinations are not available based on chemical compatibility.



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