

DOC SERIES

SUBMERSIBLE PUMPS

DOC pumps are versatile, corrosion-resistant and compact. Three basic versions are available with 0.3 to 0.7 kW power.

A DOC 7VX version with Vortex impeller is available.

APPLICATIONS

- Emptying of residential sump pits, rainwater tanks or laundry drainage.
- Garden and lawn irrigation, with suction from rainwater tanks.
- Emergency draining of flooded basements and garages.
- Transfer of water from tanks, cisterns and swimming pools.
- Water display, fountains.

SPECIFICATIONS

- **Maximum liquid temperature:** 40°C with partially submerged pump.
- **Dry motor.**
- **Maximum immersion depth:** 5 m.
- **Class B insulation.**
- **IP 68 protection.**
- The **DOC 3** pump has a delivery of **145 l/min**, head up to **7 m**, and passes **suspended solids up to 10 mm** in diameter. Only available in single-phase version.
- The **DOC 7** pump has a delivery of **225 l/min**, head up to **11 m**, and passes **suspended solids up to 10 mm** in diameter.
- The **DOC 7VX** pump has a delivery of **180 l/min**, head up to **7 m**, and can handle liquids with **suspended solids up to 20 mm** in diameter.
- A "shallow-suction device", that can be mounted on both the DOC3 and DOC7 models, is available on request. It ensures complete drainage of flooded floors (to 3 mm from floor).
- **Versions:**
Single-phase 220 V, 50 Hz, 2 poles (2850 rpm).
Three-phase 380-415 V, 50 Hz, 2 poles (2850 rpm).
- 60 Hz and without floats (SG) models are available on request or tube float switch.



- The single-phase versions feature:
Pre-assembled float for automatic pump operation (version without float available on request SG).
Built-in capacitor.
Thermal overload protection to stop pump supply in case of overheating.

LAB-LIP SEAL SYSTEM

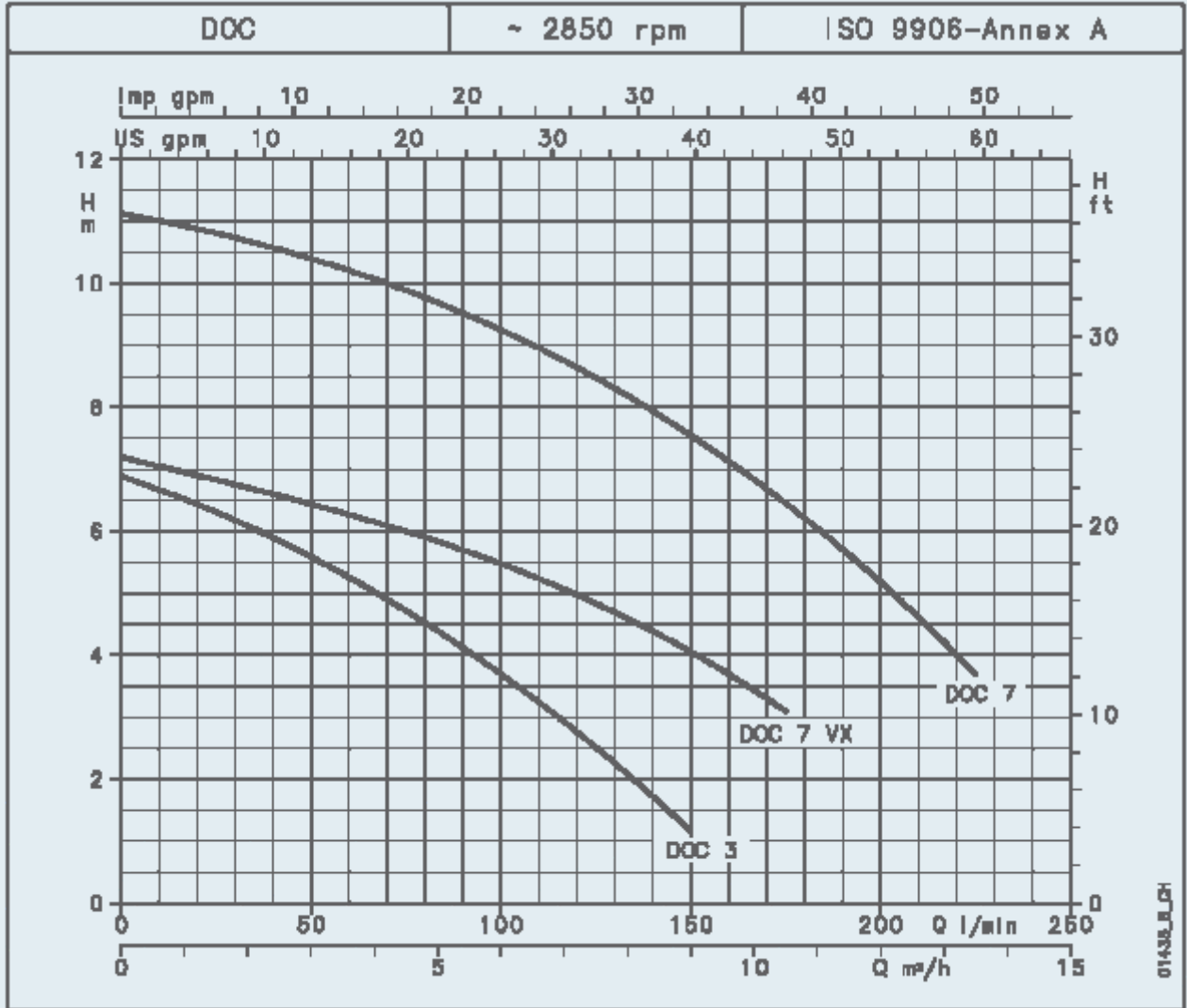
- The electric motor is protected by **three lip seals**.
An **impeller counterblade** system keeps solid particles away from the seal unit to prevent damage to the lip seals and ensure their long-lasting efficiency. A double **Labyrinth** and a **V-ring** on the shaft have also been provided.

TABLE OF MATERIALS

| PART | MATERIAL |
|--|--|
| Pump body, Suction screen, Handle, Upper support, Impeller | NORYL TECHNO POLYMER |
| Outer sleeve, Motor casing, Lower cover, Screws and tie-rods | STAINLESS STEEL (AISI 304 - DIN 1.4301) |
| Shaft extension | STAINLESS STEEL (AISI 416 - DIN 1.4005) |
| Elastomers | NITRILE RUBBER (NBR) |

DOC SERIES
OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz

DOC



| PUMP TYPE | RATED POWER | | Q = DELIVERY | | | | | | | | | |
|---------------------------------------|-------------|------|--------------|------|------|-----|-----|-----|-----|-----|------|------|
| | | | l/min | 0 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 225 |
| | | | m3/h | 0 | 1.5 | 3 | 4.5 | 6 | 7.5 | 9 | 10.5 | 13.5 |
| H = TOTAL HEAD METERS COLUMN OF WATER | | | | | | | | | | | | |
| DOC3 | 0.25 | 0.33 | 6.9 | 6.3 | 5.6 | 4.7 | 3.7 | 2.5 | 1.2 | | | |
| DOC7(T) | 0.55 | 0.75 | 11.1 | 10.8 | 10.4 | 9.9 | 9.3 | 8.5 | 7.6 | 6.5 | 3.7 | |
| DOC7VX(T) | 0.55 | 0.75 | 7.2 | 6.8 | 6.4 | 6.0 | 5.5 | 4.8 | 4.1 | 3.1 | | |

These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $= 1 \text{ mm}^2/\text{sec}$.

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| PUMP TYPE | INPUT POWER* | INPUT CURRENT* | CAPACITOR |
|--------------|--------------|----------------|--------------------------------|
| SINGLE-PHASE | | 220-240 V | |
| | kW | A | $\mu\text{F} / 450 \text{ Vk}$ |
| DOC 3 | 0.31 | 1.43 | 6.3 |
| DOC 7 | 0.78 | 3.47 | 16 |
| DOC 7VX | 0.66 | 2.96 | 16 |

| PUMP TYPE | INPUT POWER* | INPUT CURRENT* | INPUT CURRENT* |
|-------------|--------------|----------------|----------------|
| THREE-PHASE | | 220-240 V | 380-415 V |
| | kW | A | A |
| - | - | - | - |
| DOC 7T | 0.79 | 2.82 | 1.63 |
| DOC 7VXT | 0.66 | 2.68 | 1.55 |

*Maximum value in specified range

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INSTALLATION DIAGRAM

| PUMP TYPE | DIMENSIONS (mm) | | MINIMUM WATER LEVEL | MAXIMUM WATER LEVEL |
|-----------|-----------------|-----|---------------------|---------------------|
| | A | B | | |
| DOC3 | 390 | 330 | 50 | 310 |
| DOC7 | 390 | 370 | 90 | 350 |
| DOC7VX | 390 | 395 | 115 | 375 |

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DOC

This float switch allows the pump to be used where standard float design cannot work due to insufficient space. The pump with this system can only be installed vertically and can only be used with clean water.

For pump installations that use the tube float switch, the level of start and stop are fixed, therefore they cannot be modified.

DOC SERIES DIMENSIONS AND WEIGHTS

| PUMP TYPE | DIMENSIONS (mm) | | | WEIGHT |
|-----------|-----------------|-----|----|--------|
| | F | H | X* | |
| DOC3 | 245 | 188 | 20 | 4 kg |
| DOC7(T) | 285 | 228 | 20 | 6 |
| DOC7VX(T) | 310 | 252 | 45 | 6 |

*Minimum liquid level

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ACCESSORIES

Lower suction device

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Our Value Centers serve the world.

Water Solutions

Water Solutions provide wastewater and dewatering pumps, biologic treatments, and filtration and disinfection products for municipal and industrial use.

Analytics manufactures premium laboratory, field, portable, and online instruments for precise measurement, serving industries from environmental to educational.

Applied Water Systems

Residential and Commercial Water supports the efficient movement and use of water in homes, commercial buildings, agriculture and irrigation.

Flow Control with its collaborative structure of experienced people, proven technologies and innovative products strives towards realizing and deploying its expertise at niche applications in food processing, beverage, pharmaceuticals, off-highway equipment, chemical processing, oil & gas and rural water management.



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The specifications and features may change before prior notice.