



# NAUTILUS

## Submersible pumps

- Tested and certified to DIN 14425
- Lightest submersible pump in its class
- Tried-and-trusted Rosenbauer pump technology

 **rosenbauer**

# NAUTILUS submersible pumps

## Unbeatably light, easy to handle



Rosenbauer have now been developing and manufacturing a wide range of pumps for fire brigade use for 100 years. Now, Rosenbauer are proud to launch our first submersible pump with electric motor into the fire and rescue market place.

The NAUTILUS submersible pumps are tested and certified according to DIN 14425 “Portable submersible pumps with electric motor” as well as to the “Submersible pumps” standard sheet of the ÖBFV (Austrian Federal Fire Brigade Association).



With a total weight of just 30 kg (including cable), the NAUTILUS 8/1 is one of the lightest submersible pumps of its class.







**Flat suction: With the NAUTILUS 4/1 a minimal water volume of just 4 mm remains.**

### Easy to carry

With a total weight of just 30 kg (including cable), the NAUTILUS 8/1 is one of the lightest submersible pumps in its class. And at only approximately 20 kg, the NAUTILUS 4/1 is extremely lightweight too.

The two handles of both NAUTILUS 8/1 and NAUTILUS 4/1 are shaped facing outwards to ensure optimum ergonomics when carried and to prevent collision with the firefighter or firefighters carrying the unit.

### Integrated flat suction

The NAUTILUS pumps are ideally suited to flat suction and following pumping out at full power, a minimal water volume remains:

- NAUTILUS 8/1: approx. 8 mm
- NAUTILUS 4/1: approx. 4 mm

The flat suction is fully integrated into the pump, which makes the removal of the suction grill or the mounting of an additional device unnecessary.



### Quick attachment of working line

An eye in the pump cover is specifically provided to attach the carabiner on the working line. This feature allows you to use the working line to securely lower or retrieve the NAUTILUS.



The pumps benefit from a very narrow construction. On one hand, this makes it easy to store in a space-saving way on the fire department vehicle, and on the other hand, it allows for efficient deployment in narrow ducts or wells.



# Convincing performance

## perfect construction



Inspection hatch to check mechanical seal function

Cable strain relief

Cable holder

### Convincing facts

The NAUTILUS can also transport dirty water (containing sand, mud or grit) with a grain size up to 10 mm (NAUTILUS 8/1) or up to 8 mm (NAUTILUS 4/1).

- The pump can be operated in vertical, horizontal, or fully immersed position
- An inspection hatch is included to check mechanical seal function: the user of the pump can perform a functional inspection of the mechanical seal at any time.

### High quality cable incl. cable holder

- Cut-proof, heat and cold resistant, special PUR-cable (length: 20 m)
- Cable holder: to store the cable directly on the pump to save space
- Cable strain relief to avoid damage in the cable feed-through area

# NAUTILUS 8/1

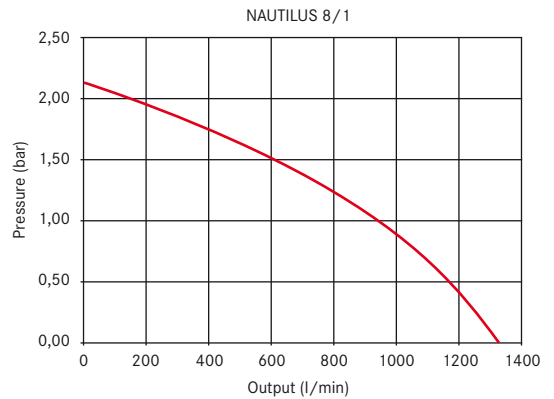
Certified to DIN 14425 type 8/1 and standard sheet "submersible pumps" of the ÖBFV.

The pump deliberately operates without error-prone electronics such as an automatic direction of rotation device. With direction of rotation indicator on the CEE plug / motor protection on/off switch. You can easily change the direction of rotation by using a phase changer on the plug.



The output of the NAUTILUS 8/1 is 17 % higher than the minimum requirement according to DIN 14425 at 1 bar. Therefore, the NAUTILUS 8/1 sits amongst the most powerful pumps in its class.

Output (l/min)	Pressure (bar)
1330	0,00
1170	0,50
935	1,00
600	1,50
120	2,00
0	2,10



## Technical data

<b>Power rating</b>	400 V / 3 phase
<b>Power consumption</b>	4,2 kVA, cos φ 0,8
<b>Power output</b>	2,8 kW
<b>Nominal current</b>	6 A
<b>Connecting cable</b>	PUR H07BQ-F 4G1,5 (exceeds rubber cable H07RN mentioned in the DIN 14425). Length: 20 m, with CEE plug 16 A and motor protection / on/off switch with direction of rotation indicator
<b>Discharge connection</b>	G 2 1/2" (Storz B DIN 14308)
<b>Particle screen (Ø)</b>	10 mm
<b>Temperature pumped medium</b>	35° C, up to max. 60° C for short periods
<b>Dimensions (Ø x H)</b>	259 x 485 mm
<b>Weight (incl. cable)</b>	30 kg
<b>Protection class pump</b>	IP 68

# NAUTILUS 4/1



Certified to DIN 14425 type 4/1 and standard sheet "submersible pumps" of the ÖBFV.

The output of the NAUTILUS 4/1 is 20 % higher than the minimum requirement according to DIN 14425 at 1 bar.

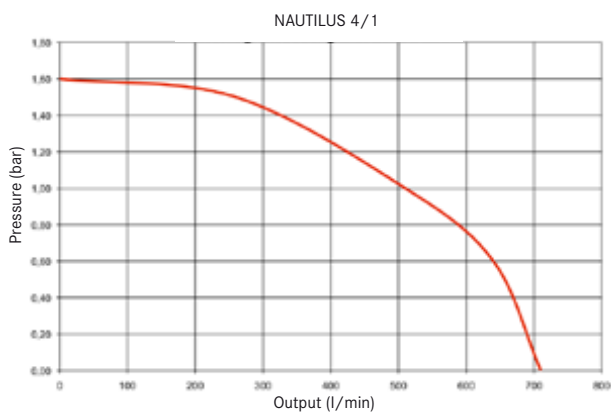
Output (l/min)	Pressure (bar)
710	0,00
640	0,50
510	1,00
260	1,50
0	1,60

## Submersible pump set NAUTILUS 4/1:

The NAUTILUS 4/1 is also available as a practical submersible pump set.

The set consists of:

- NAUTILUS 4/1 with coupling Storz B
- Coupling spanner ABC
- Fire hose B, length: 20 m
- Discharge pipe B
- Hose buckling protection
- Hose strap
- Work rope with karabiner, length: 20 m
- PRCD-S safety switch
- 90°-elbow B
- Wire basket, dimensions: 615 x 415 x 405 mm



## Technical data

Power rating	230 V / 1 Phase
Power consumption	2,07 kVA, cos φ 0,95
Power output	1,49 kW
Nominal current	9 A
Connecting cable	PUR H07BQ-F 3G1,5 (exceeds rubber cable H07RN mentioned in the DIN 14425). Length: 20 m, with water resistant plug (IP68)
Discharge connection	G 2 1/2" (Storz B DIN 14308)
Particle screen (Ø)	8 mm
Temperature pumped medium	35° C, up to max. 60° C for short periods
Dimensions (Ø x H)	250 x 456 mm
Weight (incl. cable)	20,9 kg
Protection class pump	IP 68

# NAUTILUS

## Submersible pumps



### Order data

	NAUTILUS 8/1	NAUTILUS 4/1
NAUTILUS with coupling Storz B	543049-001	545400-001
NAUTILUS with coupling Storz 65	543049-004	545400-004
NAUTILUS with connection thread G 2 1/2" AG	543049-003	545400-003
Submersible pump set	----	932000
PRCD-S safety switch	933007	933008
PRCD-K safety switch	----	933009
Floating switch	933070	933060
90° elbow	268020	268020
Vehicle holder	970334-002	970334-001

### PRCD-S safety switch for NAUTILUS 8/1

If you do not power the fire fighting submersible pump 400 V (NAUTILUS 8/1) by means of a standards-compatible (DIN 14685) generator, but attach it to a mains power supply, you should install the mobile safety switch between the consumer and the socket, just like an extension cable, to provide effective and reliable protection against electric shock. Please observe national regulations. PRCD-S 5 pin, 400 V, IP 44, in robust CEE rubber distributor with handle.



933007

### PRCD safety switch for NAUTILUS 4/1

For safety reasons, submersible pumps should always be operated with a safety switch (PRCD). Please observe national regulations. Mobile safety switch IP 68 in die-cast aluminium housing with 1.5 m connecting cable 3G1.5 mm<sup>2</sup> and isolated ground plug and/or isolated ground coupling IP 68 (to match NAUTILUS 4/1). Water pressure protected. 230 V, 16 A, 30 mA, IP 68.

- PRCD-K: For use of the pump on a standards-compliant generator (DIN 14685)
- PRCD-S: For use of the pump with mains power supply



933008 / 933009



Vehicle holder

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