Grundfos submersible pressure booster pumps

SB and SBA selection guide

Grundfos SB & SBA submersible pumps are perfect for water supply and pressure boosting around the home. They're built to last, easy to install and provide reliable performance.

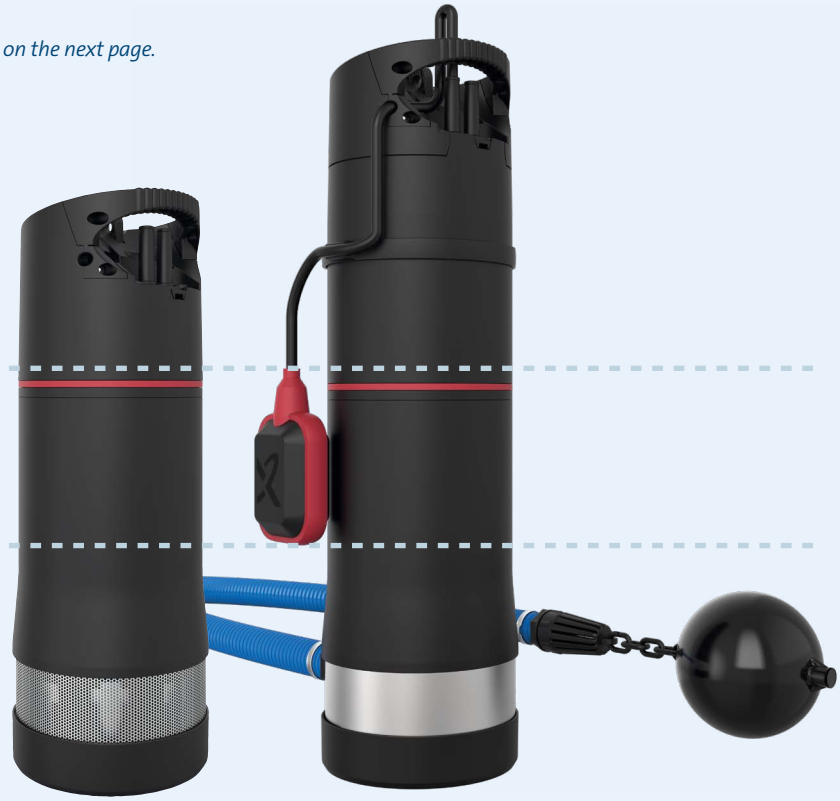
SB & SBA pumps can deliver a flow up to 3 m^3 per hour. When submerged, they operate silently, making them a quiet alternative to above-ground pumps. SB & SBA are ideal for rainwater harvesting, helping to both conserve water, and provide an alternative supply in water-scarce areas.

Configuration options

You have three main choices to make when selecting your pump:

1. Select either the the SB pump, ready for operation by an external control unit, or the SBA pump with internal control unit;
2. Decide on the SB or SBA variant either with or without a float switch;
3. Choose your preferred type of strainer.

You'll find the full range of variations and a handy sizing guide on the next page.



External control unit: SB
Easy access and complete control

Internal control unit: SBA
All-in-one simplicity

Float switch (max. length 26 cm)
Stops motor at low water levels, preventing fragments entering inlet

Fixed strainer
Inlet with 1 mm mesh at base.

Floating suction strainer
Inlet with 1 mm mesh near surface, for when distance from tank wall to pump is greater than the length of the suction strainer pipe + ball (1.5 m / 4.9 ft)

Discover more
Size your pump, get full tech specs and explore the range

GRUNDFOS

Possibility in every drop

SB

SB A
Fixed strainer
Float switch

SB M
Fixed strainer

SB AW
Floating suction
Float switch

SB MW
Floating suction

SBA

SBA A
Fixed strainer
Float switch

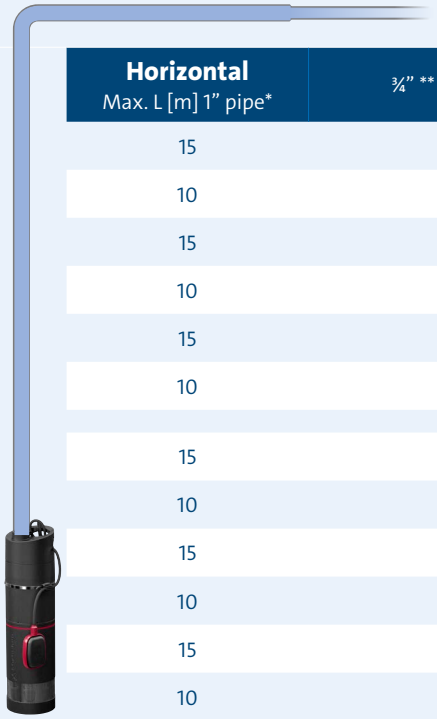
SBA M
Fixed strainer

SBA AW
Floating suction
Float switch

SBA MW
Floating suction

Quick sizing

The below calculations assume that piping inside the home is ½" or ¾".
From the cistern to the house and to the point where you change to a smaller diameter, use 1".
An NRV and gate valve are taken into account, as well as an extension from a small to larger pipe and a few 90° bends.



	Vertical Max. Hgeo [m] 1" pipe*	**Horizontal** Max. L [m] 1" pipe*	¾" ** / ½" *** pipe	Total hor. length [m] with 1" + ¾" / 1" + ½" pipes
SB(A) 3-45 at 3m³/h 2.8 bar	15	15	20/4	25/19
	15	10	22/5	32/15
	10	15	33/8	48/23
	10	10	35/8.5	45/18.5
	5	15	46/11	61/26
	5	10	48/11.5	58/22.5
SB(A) 3-35 at 3m³/h 2.4 bar	15	15	9/2	16/17
	15	10	11/3	21/13
	10	15	23/5.5	38/20.5
	10	10	25/6	35/16
	5	15	36/8.5	51/23.5
	5	10	38/9	48/19

*Inner-ø 25mm ** Inner-ø 20mm *** Inner-ø 15mm

Preconditions

- 3 bar tap pressure is considered; to achieve 4 bar pressure, add 2 more floors
- Flooded suction
- 0.5 l/s per tap average, usage pattern is taken into account

Grundfos cannot be held responsible for any errors in sizing based on this guide. If you have any questions on selection or sizing, please feel free to contact us any time or visit grundfos.com

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