

Operating specifications

Max operating temperature	40°C [90°C max 3 min]
pH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm ² /s
Maximum immersion depth	10 m
Density of treated fluid	1 Kg/dm ³
Maximum acoustic pressure	<70 dB
Max starts per hour	30

Construction materials

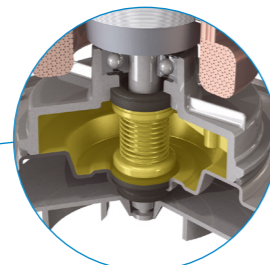
Case	Stainless steel - AISI 304
Impeller	Stainless steel - AISI 304
Mechanical seal	SiC-Al
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 431
Cable (external casing)	Neoprene



The cooling jacket ensures an optimal **motor** temperature even with the pump only partially submerged.



The **vertical travel level switch** is available for installation in small pits.



Large **oil chamber** guarantees long mechanical seal lifetime.



water solutions

The digital version of this catalogue is available for download at: www.zenit.com



series steel

ELECTRICAL SUBMERSIBLE PUMPS FOR DOMESTIC DRAINAGE AND LIFTING



ZENIT
NAVIGATOR SUITE

The Technical **Data Booklet** complete with duty curves is available for download in the download area of zenit.com

To select the pump best suited to your needs we advise you to use the **Zeno Pump Selector** configuration tool on the zenit.com website

The data provided are not binding. Zenit reserves the right to modify any product without notice.

For further information, visit www.zenit.com

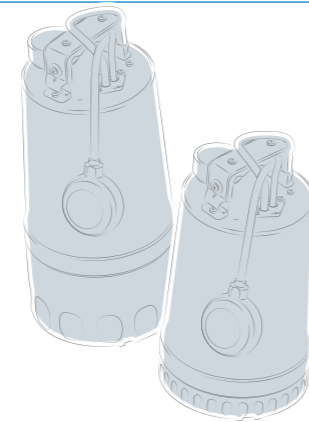
Cod. 290400600400011
Rev. 0 - 01/02/2018

steel series

High-performance, compact **stainless steel** submersible pumps for optimal service in household installations and small civil plants.

The **steel series** is a range of lightweight and handy stainless steel submersible pumps with single and three-phase motors from 0.25 to 0.75 kW with two types of hydraulics:

- Vortex impeller (**DG steel**) for use with charged water and in the presence of solid bodies
- Open multichannel impeller (**DR steel**) for use with light or low water



Range characteristics

- 1 Handle**
In AISI 304 stainless steel with ergonomic, insulating techno-polymer coating.
- 2 Adjustable float switch**
Float switch stroke adjustment system for modification of start-stop levels.
- 3 Cable gland**
Cable gland system with dual safety device to prevent disconnection even in case of accidental pulling.
- 4 Capacitor/relay**
Single-phase models have internal capacitor. Three-phase models have relay for float-switch control of start/stop cycles.
- 5 Thermal protection**
Dry motor protection with thermal overload.
- 6 Drive shaft**
Integral drive shaft in AISI 431 stainless steel for high strength and to allow use with brine or chlorine.
- 7 Mechanical seal**
SiC-Al mechanical seal in wide oil chamber. V-Ring in direct contact with the liquid.

Applications

Steel models can be used in emergencies for pumping-out flooding premises or for pumping from wells and tanks.

What's more, the **DR steel** version also provides an excellent lifting station installed inside the **nanoBOX** tank for the collection and transfer of domestic wastewaters.



The **steel** models are used in the **emergency kit** that allows an immediate intervention in case of flooding of basements.



DG steel

Stainless steel **vortex** impeller



- Sewage
- Soiled wastewaters with solids
- Lifting stations in civil and residential plants

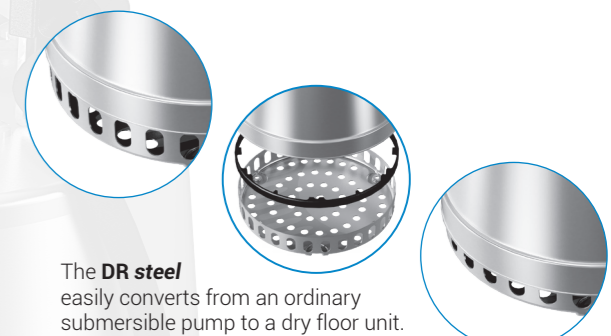
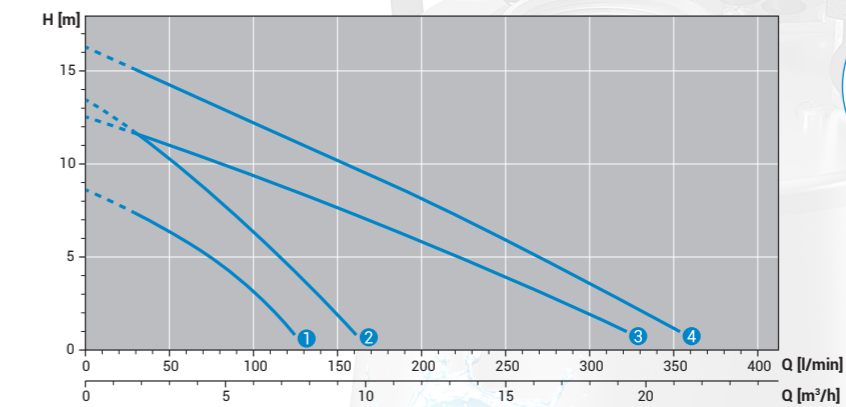
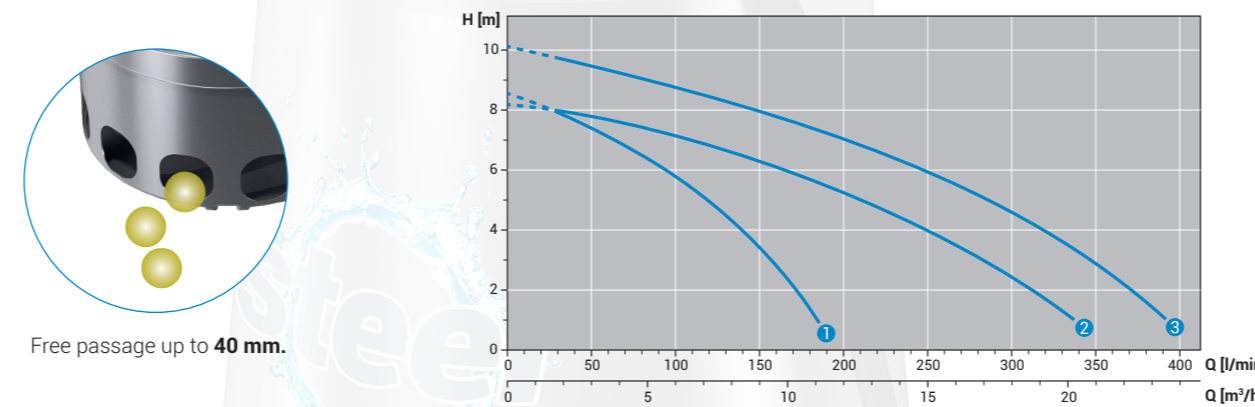
DR steel

Stainless steel **multi-channel** open impeller



- Clear or slightly soiled wastewaters
- Strained, seepage and underground pump-out waters
- Garden sprinklers and pumping from tanks

Performances



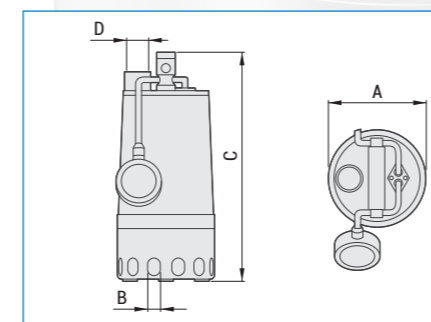
The **DR steel** easily converts from an ordinary submersible pump to a dry floor unit. When operating in this mode, the suction level can be reduced to as little as 5 mm above the ground.

Technical data

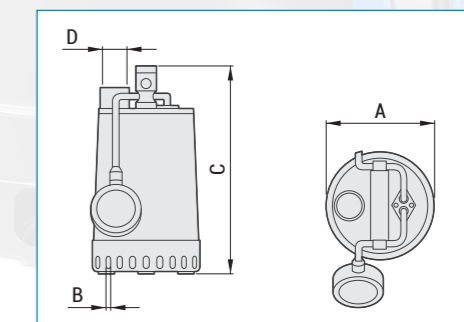
	V/~	P2 [kW]	A	Rpm	Ø	Free passage		
1	DG steel 37/2 M50	230/1	50	0.37	3.0	2900	G 1¼"	25 mm
2	DG steel 55/2 M50	230/1	50	0.55	4.3	2900	G 1½"	40 mm
3	DG steel 75/2 M50	230/1	50	0.75	5.6	2900	G 1½"	40 mm
3	DG steel 75/2 T50	400/3	50	0.75	2.4	2900	G 1½"	40 mm

	V/~	P2 [kW]	A	Rpm	Ø	Free passage		
1	DR steel 25/2 M50	230/1	50	0.25	2.3	2900	G 1¼"	10 mm
2	DR steel 37/2 M50	230/1	50	0.37	3.1	2900	G 1¼"	10 mm
3	DR steel 55/2 M50	230/1	50	0.55	4.3	2900	G 1½"	12 mm
4	DR steel 75/2 M50	230/1	50	0.75	5.6	2900	G 1½"	12 mm
4	DR steel 75/2 T50	400/3	50	0.75	2.4	2900	G 1½"	12 mm

Dimensions



	A	B	C	D	Weight
DG steel 37/2 M50	170	20	350	G 1¼"	6.6
DG steel 55/2 M50	170	40	400	G 1½"	8.1
DG steel 75/2 M50	210	40	400	G 1½"	8.9
DG steel 75/2 T50	210	40	400	G 1½"	8.9



	A	B	C	D	Weight
DR steel 25/2 M50	170	10	300	G 1¼"	5.9
DR steel 37/2 M50	170	10	300	G 1¼"	6.3
DR steel 55/2 M50	215	12	335	G 1½"	7.7
DR steel 75/2 M[T]50	215	12	335	G 1½"	8.4