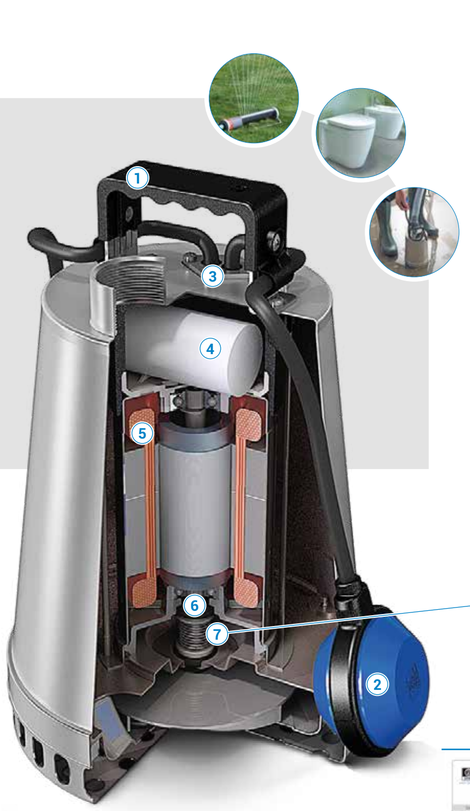
Operating specifications

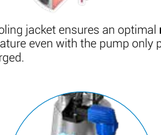
Max operating temperature	40°C [90°C max 3 min]
pH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm^2/s
Maximum immersion depth	10 m
Density of treated fluid	1 Kg/dm^3
Maximum acoustic pressure	<70 dB
Max starts per hour	30

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.

ZENO 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

better together

The data provided are not binding.
Zenit reserves the right to modify the product without advance notification.

For further information, visit www.zenit.com

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

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Rev. 1 - 01/09/2018

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DOMESTIC/RESIDENTIAL

series

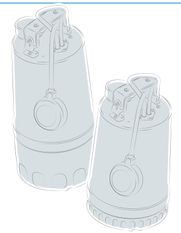
steel

ELECTRICAL SUBMERSIBLE PUMPS
FOR DOMESTIC DRAINAGE AND LIFTING

zenit.com

EN

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.

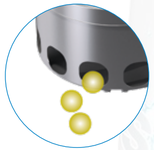
The ***steel*** models are used in the **emergency kit** that allows an immediate intervention in case of flooding of basements.

steel series

DG ***steel***

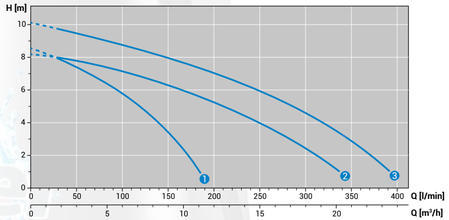
Stainless steel **vortex** impeller

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



Free passage up to **40 mm.**

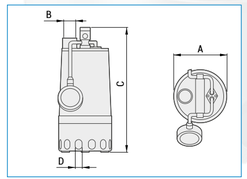
Performances



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

Dimensions



	A	B	C	D	kg
DG *steel* 37/2 M50	168.5	G 1¼"	350	25	6.6
DG *steel* 55/2 M50	216	G 1½"	406	40	8.1
DG *steel* 75/2 M[T]50	216	G 1½"	406	40	8.9

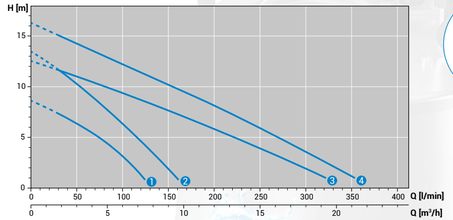
steel series

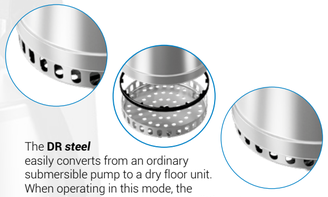
DR ***steel***

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



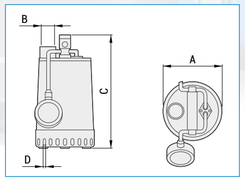


The **DR *steel*** easily converts from an ordinary submersible pump to a dry floor unit. When operating in this mode, the suction level can be reduced to as little as 5 mm above the ground.

Technical data

		V/~		P2 [kW]	A	Rpm	Ø	Free passage
1	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	kg
DR *steel* 25/2 M50	168.5	G 1¼"	299	10	5.9
DR *steel* 37/2 M50	168.5	G 1¼"	299	10	6.3
DR *steel* 55/2 M50	216	G 1½"	335	12	7.7
DR *steel* 75/2 M[T]50	216	G 1½"	335	12	8.4