Operating specifications

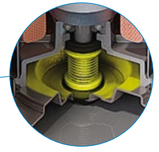
Max operating temperature	40°C [90°C max 3 min]
pH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm^2/s
Maximum immersion depth	10 m
Density of treated fluid	1 Kg/dm^3
Maximum acoustic pressure	<70 dB
Max starts per hour	30

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

ZENIT
A TSURUMI PUMP COMPANY

For further information, visit www.zenit.com

Cod. 290400073
Rev. 2 - 01/10/2024

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DOMESTIC/RESIDENTIAL

series steel

ELECTRICAL SUBMERSIBLE PUMPS
FOR DOMESTIC DRAINAGE AND LIFTING

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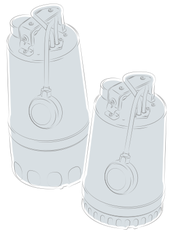
EN

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.

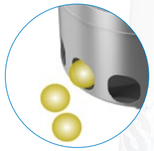
What's more, the **DR *steel*** version also provides an excellent lifting station installed inside the *nanoBOX* tank for the collection and transfer of domestic wastewaters.

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

DG ***steel***

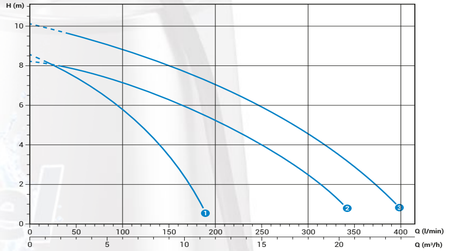
Stainless steel **vortex** impeller

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



Free passage up to **40 mm.**

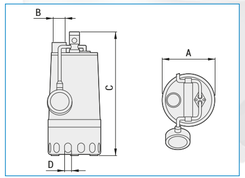
Performances



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



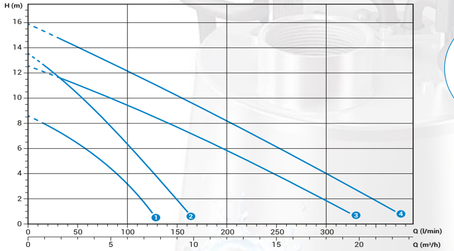
	A	B	C	D	kg
DG *steel* 37/2 M50	168.5	G 1¼"	350	25	6.6
DG *steel* 55/2 M50	216	G 1½"	406	40	8.1
DG *steel* 75/2 M[T]50	216	G 1½"	406	40	8.9

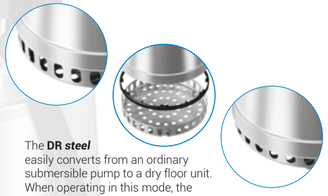
DR ***steel***

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



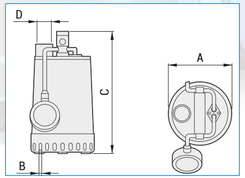


The **DR *steel*** easily converts from an ordinary submersible pump to a dry floor unit. When operating in this mode, the suction level can be reduced to as little as 5 mm above the ground.

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