

Steel
submersible
water **Pumps**



DR-Steel

**Practical
Light
Compact**

The best choice



water technology

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The Zenit Group ranks among the top international names in the design and manufacture of water treatment technologies. Its core business is the design and manufacture of submersible electric pumps for both domestic and industrial use. Thanks to the knowledge and experience it has acquired over the years Zenit has also featured in the market with oxygenating and mixing products, providing a comprehensive range of items designed to meet the most demanding needs. Today Zenit is a Group that manages to have direct control over the markets it operates in, thanks to a targeted territorial presence. The Zenit Group is comprised of different companies across the globe but all operating in pursuit of a single mutual objective. The current structure of the Zenit Group is the result of a successful combination of entrepreneurial strategies and appraisals that have led to integration between company and globalization.
Strong in the conviction that the path we have undertaken is the right one we journey along it together towards a single aim, accompanied by the 3P formula that has been our constant companion: People - Product - Passion.

PEOPLE
PRODUCT
PASSION

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water technology



Steel

series

SUBMERSIBLE STAINLESS STEEL DRAINAGE & VORTEX PUMPS

Steel
submersible
water **Pumps**

DG-Steel

**Reliable
Strong
High performance**

The winning combination



Features

Out power range	0,37 - 0,75 kW
Impeller	Vortex
Poles	2
Outlet	G 1¼" - G 1½"
Max free passage	25 - 40 mm
Max head	10 mt
Max capacity	375 l/min

Running conditions

Max. operating temperature	40°C (90°C max 3 min)
Fluid pH	6 - 14
Fluid viscosity	1 mm²/s
Service	S1 submerged
Max. immersion depth	10 mt
Fluid density	1 kg/dm³
Max. acoustic pressure	< 70 dB
Max. start-ups/hour	30

Materials

Pump casing Pump body Strainer, Impeller	Chrome-nickel steel AISI 304
Handle	Polypropylene + 30% Glass Fibre
Shaft	AISI 420 Steel

Sealing Systems
Three seals:
- **double mechanical seal (SiC-AI)** in sealed chamber, cooled with foodgrade oil
- **one V-ring** in direct contact with the liquid

DG-Steel

SUBMERSIBLE STAINLESS STEEL PUMPS WITH VORTEX IMPELLER



1 Handle
Polypropylene + 30% Glass Fibre

2 Shaft
AISI 420 Steel

3 Cooling System
As for the **internal recycle pumped liquid system**, the motor cooling is guaranteed even if the pump is partially covered by the liquid, thanks to the thru flow design & top discharge.

4 Sealing Systems
Three seals
- **double mechanical seal (SiC-AI)** in oil sump with food-grade oil lubrication
- **one V-ring** in direct contact with the liquid

5 Impeller
Chrome-nickel steel AISI 304

6 Strainer
Chrome-nickel steel AISI 304
Max free passage 25 - 40 mm

7 Pump body
Chrome-nickel steel AISI 304



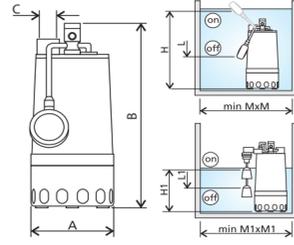
Applications

For clean or slightly dirty water, containing **solids up to 40 mm** grain size. For **sewerage plants, livestock farms, car washes, hydro-sanitary applications.**

Dimensions

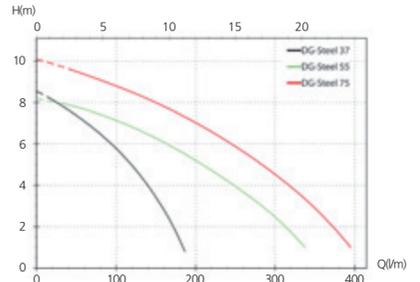
	Ø A	B	C	kg
DG-Steel 37	170	350	G 1¼"	6.6
	H	L	M	
	435	195	350	
	H1	L1	M1	
	205	115	300	

	Ø A	B	C	kg
DG-Steel 55/75	215	405	G 1½"	8.1/8.9
	H	L	M	
	490	250	400	
	H1	L1	M1	
	260	170	350	



M - M1 Minimum dimensions - 500mm x 500mm Suggested dimensions

Performances



Current (A)	P2 (kW)	Free Passage	Q																							
			l/s	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0										
			l/min	0	30	60	90	120	150	180	210	240	270	300	330	360										
DG-Steel 37	3.1	-	25	8.7	7.6	7.1	6.1	5.0	3.4	1.3																
DG-Steel 55	4.3	-	40	8.1	7.8	7.5	7.0	6.6	6.2	5.7	4.8	4.1	3.2	2.3	1.3											
DG-Steel 75	5.6	2.4	40	10.0	9.5	9.2	8.6	8.2	7.8	7.5	6.7	6.0	5.2	4.1	3.2	2.1										

DR-Steel

SUBMERSIBLE STAINLESS STEEL PUMPS FOR DRAINAGE

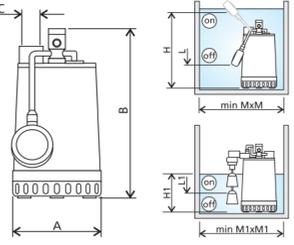
Applications

For clean water containing **solids up to 12 mm**. For draining rooms or emptying tanks. For water from **ponds, streams or pits** and for rainwater collection.

Dimensions

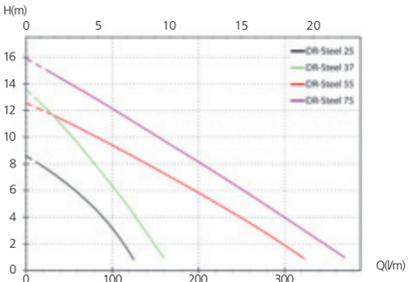
	Ø A	B	C	Kg
DR-Steel 25/37	170	300	G 1¼"	5.9 / 6.3
	H	L	M	
	385	145	350	
	H1	L1	M1	
	155	65	300	

	Ø A	B	C	Kg
DR-Steel 55/75	215	335	G 1½"	7.7 / 8.4
	H	L	M	
	420	180	400	
	H1	L1	M1	
	190	100	350	



M - M1 Minimum dimensions - 500mm x 500mm Suggested dimensions

Performances



Current (A)	P2 (kW)	Free Passage	Q																							
			l/s	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5											
			l/min	0	30	60	90	120	150	180	210	240	270	300	330											
DR-Steel 25	2.3	-	10	8.5	7.0	5.7	4.0	1.3																		
DR-Steel 37	3.1	-	10	13.6	11.6	9.5	7.0	4.5	1.9																	
DR-Steel 55	4.3	-	12	12.4	11.3	10.4	9.2	8.4	7.2	6.3	5.0	4.0	3.0	1.8												
DR-Steel 75	5.6	2.4	12	16.0	15.0	13.4	12.4	11.2	10.0	8.8	7.6	6.5	5.2	3.8	2.5											

1 Handle
Polypropylene + 30% Glass Fibre

2 Shaft
Stainless steel AISI 420

3 Cooling System
As for the **internal recycle pumped liquid system**, the motor cooling is guaranteed even if the pump is partially covered by the liquid, thanks to the thru flow design & top discharge.

4 Sealing Systems
Three seals
- **double mechanical seal (SiC-AI)** in oil sump with food-grade oil lubrication
- **one V-ring** in direct contact with the liquid

5 Strainer
Chrome-nickel steel AISI 304
A special set allows the pump to be transformed into a dry floor model. The minimum level of liquid can be lowered to 5 mm from the ground by setting two special shims.

6 Pump body
Chrome-nickel steel AISI 304

7 Impeller
Chrome-nickel steel AISI 304



Features

0,25 - 0,75 kW	Out power range
Open multichannel	Impeller
2	Poles
G 1¼" - G 1½"	Outlet
10 - 12 mm	Max free passage
16 mt	Max head
335 l/min	Max capacity

Running conditions

40°C (90°C max 3 min)	Max. operating temperature
6 - 14	Fluid pH
1 mm²/s	Fluid viscosity
S1 submerged	Service
10 mt	Max. immersion depth
1 kg/dm³	Fluid density
< 70 dB	Max. acoustic pressure
30	Max. start-ups/hour

Materials

Chrome-nickel steel AISI 304	Pump casing Pump body Strainer, Impeller
Polypropylene + 30% Glass Fibre	Handle
AISI 420 Steel	Shaft

Sealing Systems
Three seals:
- **double mechanical seal (SiC-AI)** in sealed chamber, cooled with foodgrade oil
- **one V-ring** in direct contact with the liquid