

# DR-Steel

## Stainless steel pumps for drainage



All product images are indicative only

### General characteristics

multi-channel open impeller	
motor power	0,25 ÷ 0,75 kW
poles	2
discharge	GAS 1¼" - GAS 1½"
free passage	max 12 mm
max flow rate	335 l/min
max head	16.0 m

### Electromechanical assembly

Electromechanical assembly in AISI 304 chrome-nickel steel, for submerged operation, fitted with 2 (two) opposing mechanical seals in silicon carbide and alumina graphite in oil sump with food-grade oil lubrication, and V-ring in direct contact with the liquid. Structure in chrome-nickel AISI 304 steel.

### 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.

### Construction materials

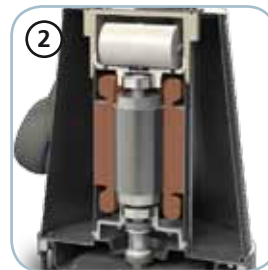
Case	Chrome-nickel steel AISI 304
Impeller	Chrome-nickel steel AISI 304
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Steel - AISI 431
Set of standard mechanical seals	Three mechanical seals; double seal (SiC-Al) in oil sump with food-grade oil lubrication, one V-ring in direct contact with the liquid

### Operating limits

Maximum operating temperature	40°C (90°C max 3 min)
PH of treated fluid	6 - 14
Viscosity of treated fluid	1 mm <sup>2</sup> /s
Maximum immersion depth	10 m
Density of treated fluid	1 Kg/dm <sup>3</sup>
Maximum acoustic pressure	<70 dB
max starts per hour	30



**Lifting handle**  
Chrome-nickel steel AISI 304.



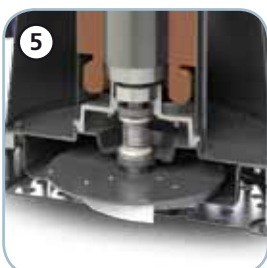
**Cooling system**  
As for the internal recycle pumped liquid system, the motor cooling is guaranteed even if the pump is partially covered by the liquid.



**Mechanical seal**  
Three mechanical seals; double seal (SiC-Al) in oil sump with food-grade oil lubrication, one V-ring in direct contact with the liquid.



**Strainer**  
A special set allows the sewage pump to be transformed into a dry floor one. The minimum level of liquid can be lowered to 5 mm from the ground by setting two special shimming.



**Impeller**  
Chrome-nickel steel AISI 304.



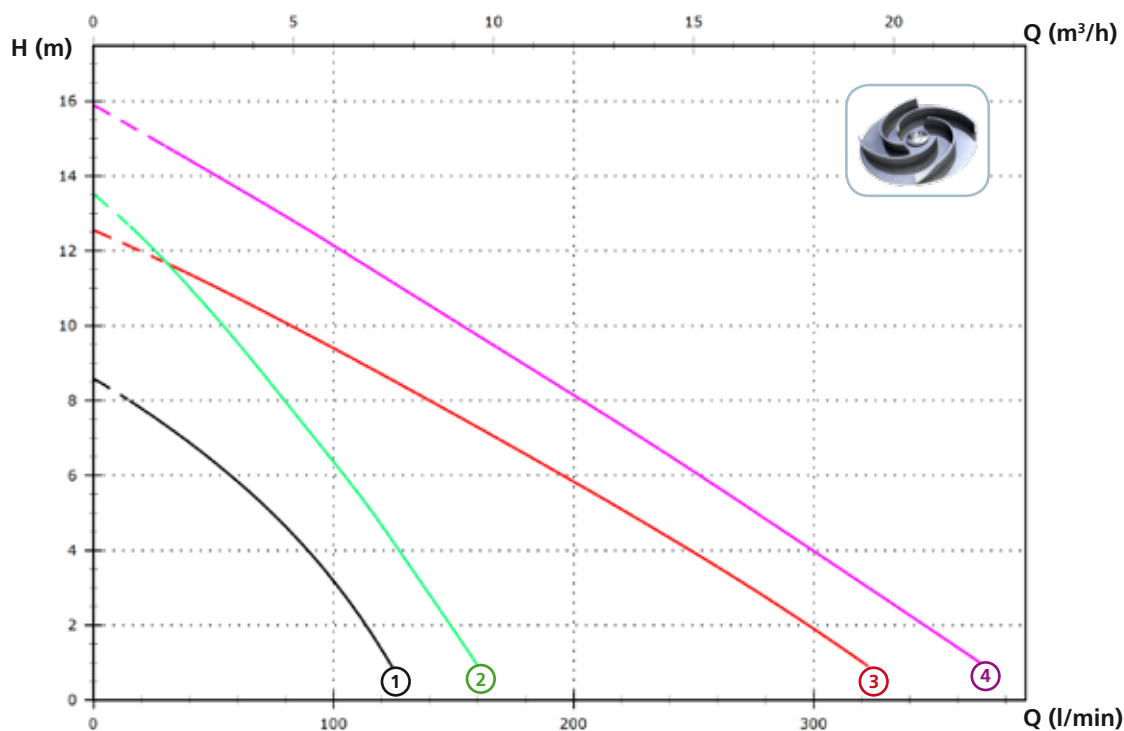
**Optional**  
Vertically sliding level regulator, recommended for installation in small wells.

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## Models with vertical GAS 1½"- 1¼" threaded discharge - 2 poles

### Performances

	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
	m³/h	0.0	1.8	3.6	5.4	7.2	9.0	10.8	12.7	14.5	16.3	18.1	19.9
① DR-Steel 25/2 M50		8.5	7.0	5.7	4.0	1.3							
② DR-Steel 37/2 M50		13.6	11.6	9.5	7.0	4.5	1.9						
③ DR-Steel 55/2 M50		12.4	11.3	10.4	9.2	8.4	7.2	6.3	5.0	4.0	3.0	1.8	
④ DR-Steel 75/2 M(T)50		16.0	15.0	13.4	12.4	11.2	10.0	8.8	7.6	6.5	5.2	3.8	2.5



### Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DR-Steel 25/2 M50	230	1	-	0.25	2.3	2900	G 1¼"	A	10 mm
② DR-Steel 37/2 M50	230	1	-	0.37	3.1	2900	G 1¼"	A	10 mm
③ DR-Steel 55/2 M50	230	1	-	0.55	4.3	2900	G 1½"	A	12 mm
④ DR-Steel 75/2 M50	230	1	-	0.75	5.6	2900	G 1½"	A	12 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
④ DR-Steel 75/2 T50	400	3	-	0.75	2.4	2900	G 1½"	B	12 mm

(\*) A = H07RN-F 3G1 - 5 m cable length with schuko plug. Optional 10 m cable length with schuko plug.  
 B = H07RN-F 4G1 - 10 m cable length

Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

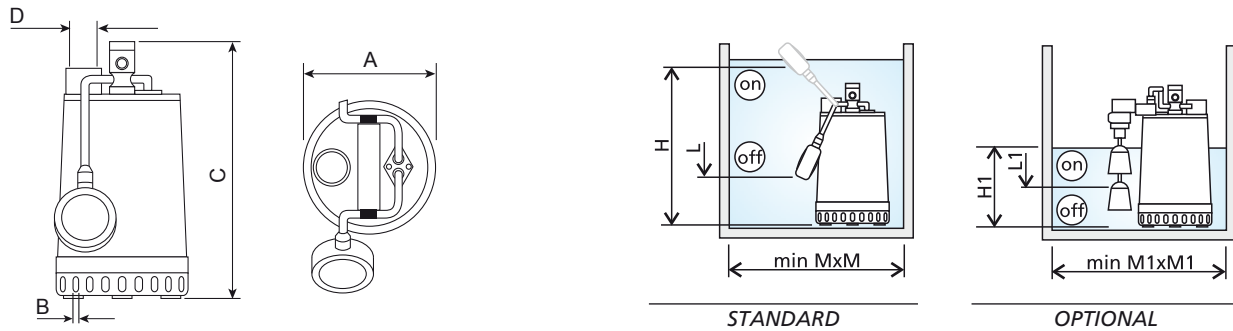
# DR-Steel

## Versions available

(Key to versions on page 16)

	Electrical variants											Cooling				Mechanical seals				
	N A E	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T C W	T S	T R	T R G	N	CC CCE	FT	C G F T	2SIC	SICM	SICAL	2SICAL
DR-Steel 25/2 M50						●			●					●					●	
DR-Steel 37/2 M50						●			●					●					●	
DR-Steel 55/2 M50						●			●					●					●	
DR-Steel 75/2 M50						●			●	●				●					●	
DR-Steel 75/2 T50	●										●			●					●	

## Overall dimensions and weights



	Ø A	B	C	D	H	L	M	H1	L1	M1	kg
DR-Steel 25/2 M50	170	10	300	G 1¼"	385	145	350	155	65	300	5.9
DR-Steel 37/2 M50	170	10	300	G 1¼"	385	145	350	155	65	300	6.3
DR-Steel 55/2 M50	215	12	335	G 1½"	420	180	400	190	100	350	7.7
DR-Steel 75/2 M(T)50	215	12	335	G 1½"	420	180	400	190	100	350	8.4

Dimensions in mm

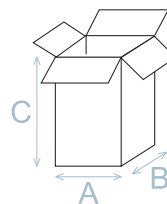
M - M1 Minimum dimensions - 500mm x 500mm Suggested dimensions  
All weights and dimensions are indicative only

## Packaging dimension

	A	B	C
DR-Steel 25-37 M50	200	200	350
DR-Steel 55-75 M50	240	250	400
DR-Steel 75/2 T50	240	250	400

Dimension in mm

All weights and dimensions are indicative only



## No. pieces per pallet

For DR-Steel 25-37 models each pallet (EUR 1000X1200 mm) is able to take 90 pieces.

For DR-Steel 55-75 models each pallet (EUR 1000X1200 mm) is able to take 60 pieces.

## Installations available

