

# DRP

**motralec**

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## Multi-channel open impeller

### General characteristics

- Multi-channel open impeller
- 4,1 ÷ 19,3 kW motor power
- 2 / 4 / 6 poles
- DN80 ÷ DN150 delivery port
- max 125 mm free passage

### Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals installed in series in inspectable oil sump and 1 (one) opposed graphite-alumina lip seal lubricated by the motor oil. Oil bath motor. Separate pump body. Series not available in explosion-proof version.

### Applications

Designed to transport heavily soiled wastewater, activated sludges and solids. Particularly suitable for applications in wastewater treatment plants, sewer systems, civil lifting systems and the paper, tanning and leather industries.

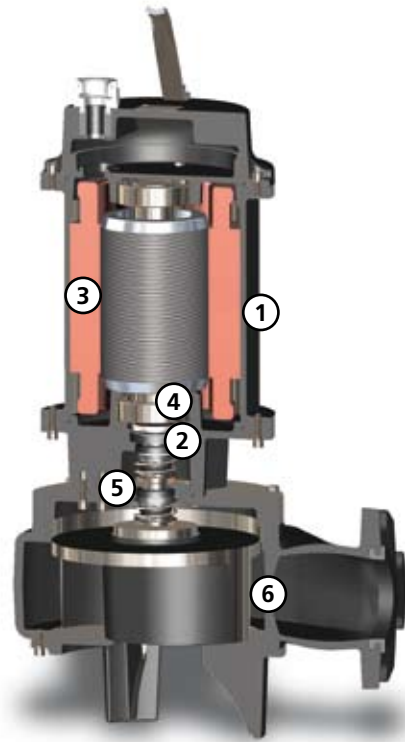
### Construction materials

Case	Cast Iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless Steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless Steel - AISI 420
Cooling jacket	Carbon Steel - Fe360 ÷ Fe370
Set of standard mechanical seals	Two Silicon carbide mechanical seals (SiC) and One Carbon-Aluminium oxide mechanical seal (AL)

### operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 to 10 pH
Viscosity of treated fluid	1 mm <sup>2</sup> /s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm <sup>3</sup>
Maximum acoustic pressure	70 dB
max starts per hour	20

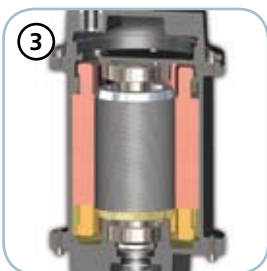
# DRP



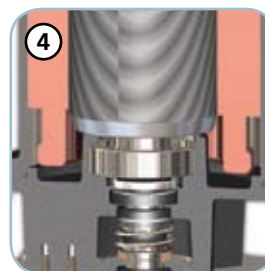
**Structure**  
Constructed in GJL-250 cast iron



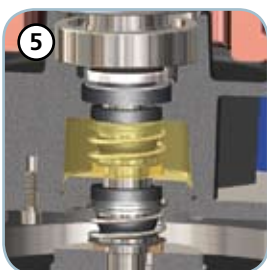
**Mechanical seals**  
Two mechanical seals in silicon carbide (SiC) and one mechanical seal in alumina graphite (AL) for maximum reliability even in heavy-duty applications



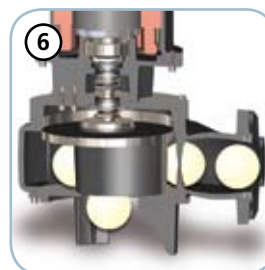
**Motor**  
Oil-bath motor with thermal overloads



**Bearings**  
Shielded ball bearings with lifetime autolubrication



**Oil sump**  
Large oil sump to guarantee longer mechanical seal lifetime

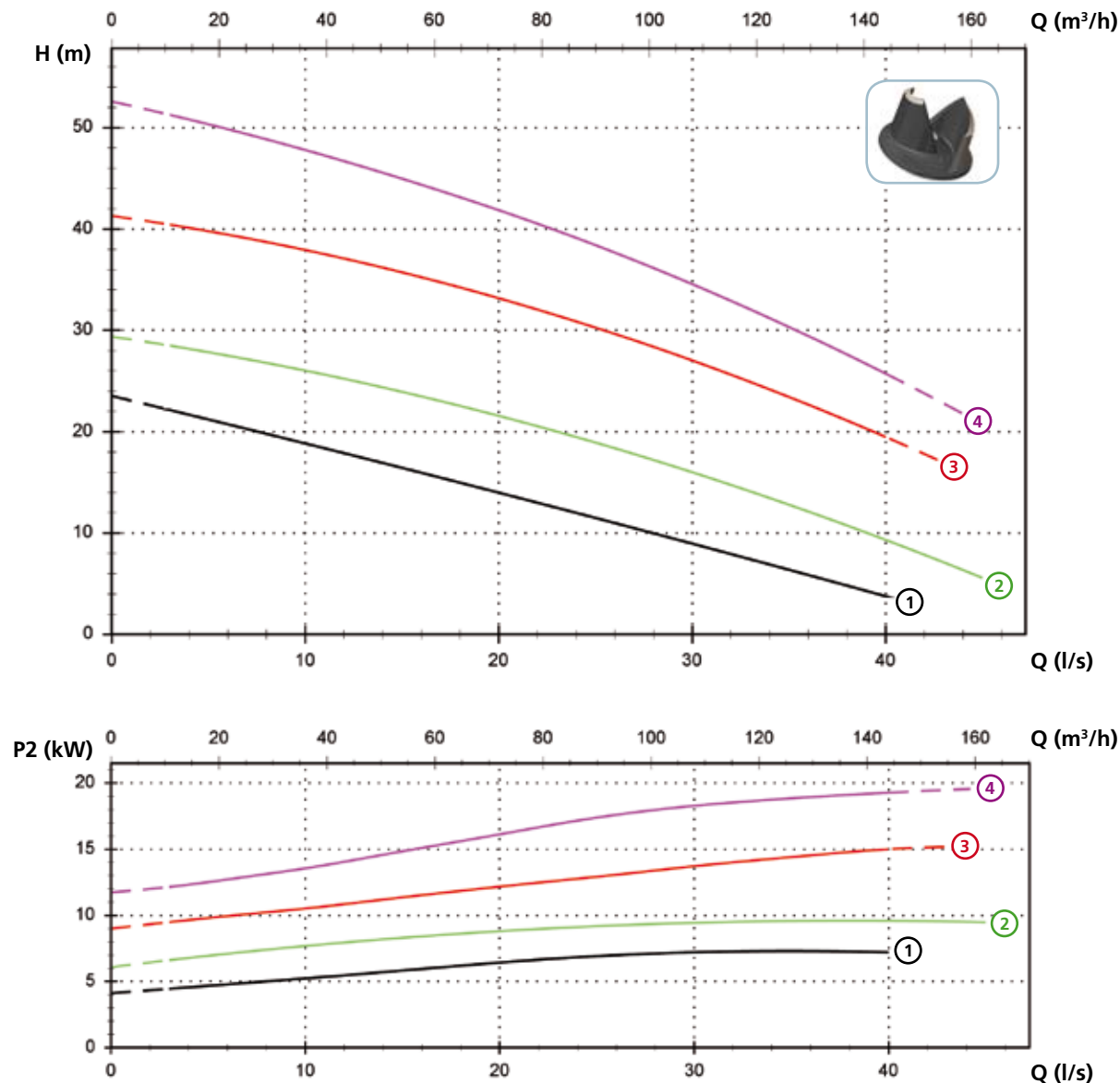


**Free passage**  
Ample free passage allowing the expulsion of solids and preventing fouling of the impeller

# DRP

## Models with horizontal DN80 PN10-16 flanged delivery port - 2 poles

### Performances



### Technical data

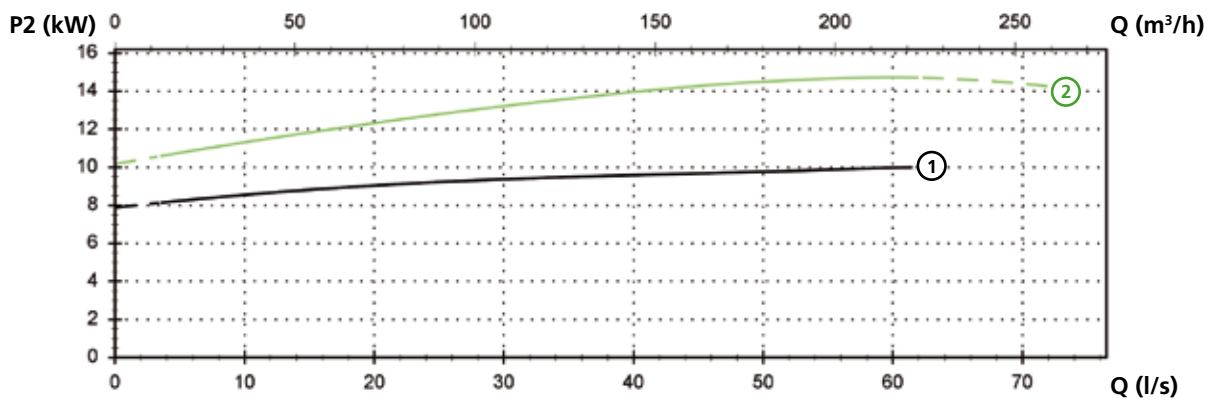
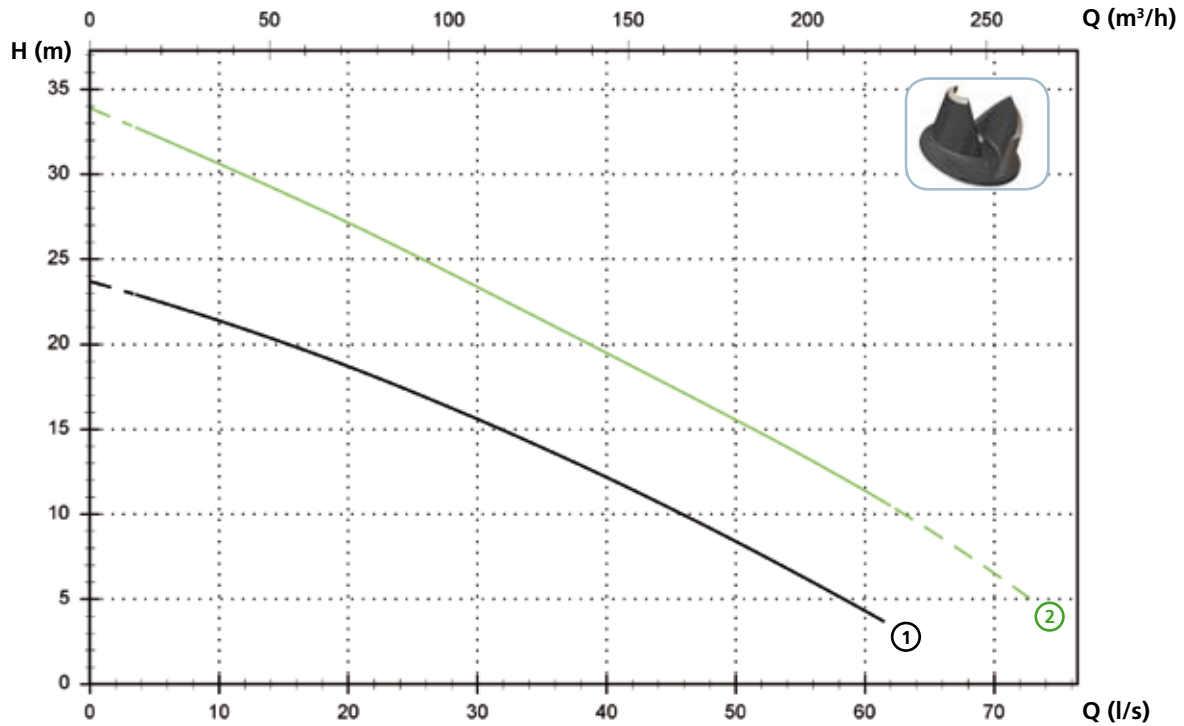
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage	
①	DRP 750/2/80 A0HT/50	400	3	8.8	7.2	14.5	2900	DN80 PN10-16	A	55x65 mm
②	DRP 1000/2/80 A1HT/50	400	3	12.4	10	19.8	2900	DN80 PN10-16	A	55x65 mm
③	DRP 1500/2/80 A0HT/50	400	3	16.7	15	27.2	2900	DN80 PN10-16	B	50x60 mm
④	DRP 2000/2/80 A0IT/50	400	3	22.7	19.3	36	2900	DN80 PN10-16	C	35x60 mm

(\*) A = 07RN-F 7G1.5+3x0.75 - 10 m  
 B = 07RN-F 7G2.5+3x0.75 - 10 m  
 C = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

Models with horizontal DN100 PN10-16 flanged delivery port - 2 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
①	400	3	12.4	10	19.8	2900	DN100 PN10-16	A	75x80 mm
②	400	3	17.7	15	28.2	2900	DN100 PN10-16	B	70x80 mm

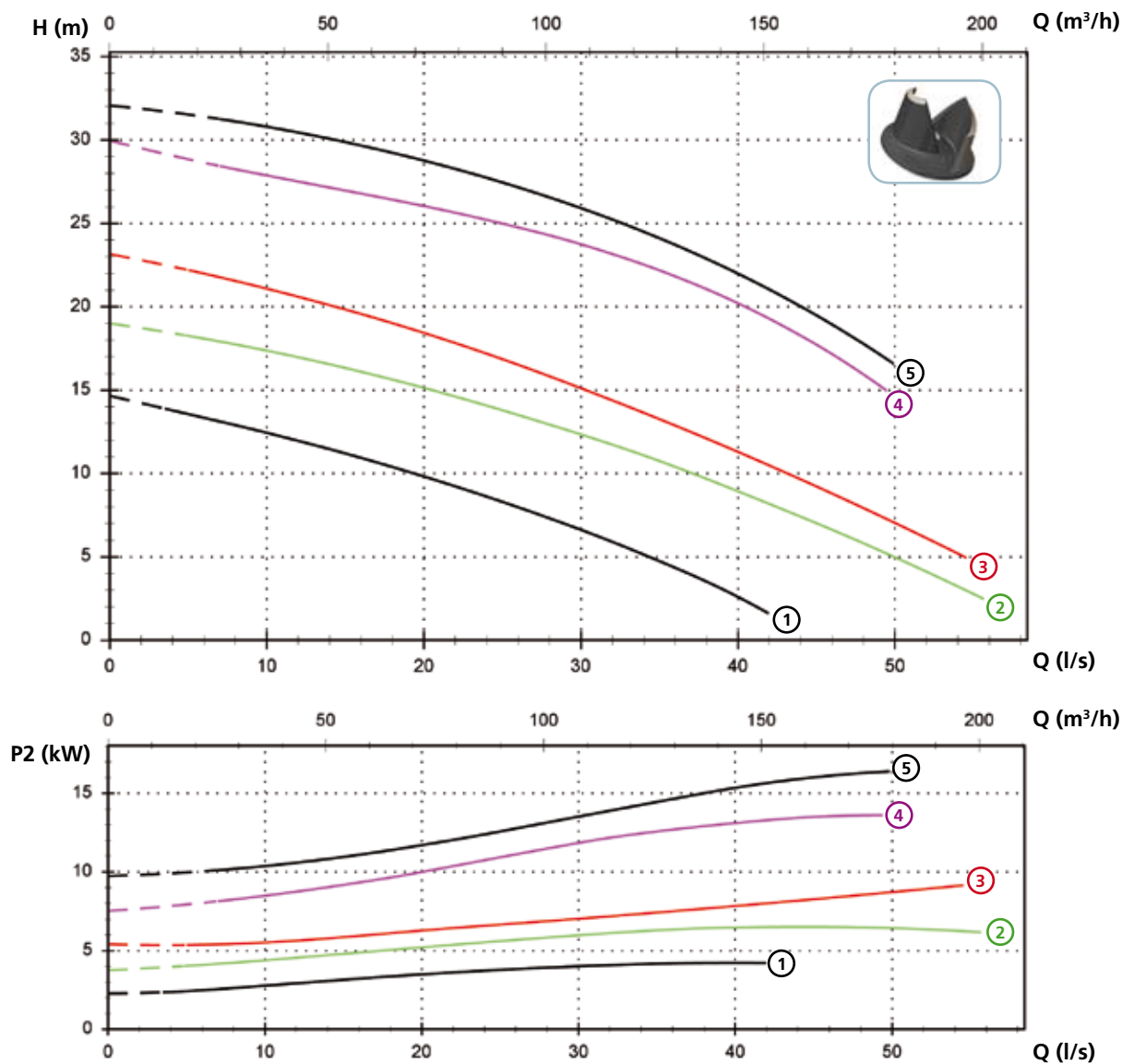
(\*) A = 07RN-F 7G1.5+3x0.75 - 10 m  
 B = 07RN-F 7G2.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

# DRP

## Models with horizontal DN80 PN10/10-16 flanged delivery port - 4 poles

### Performances



### Technical data

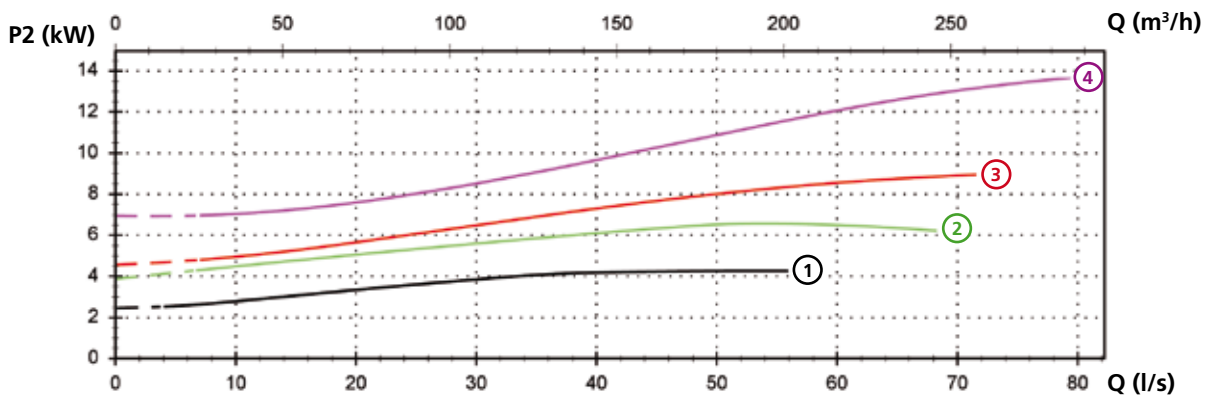
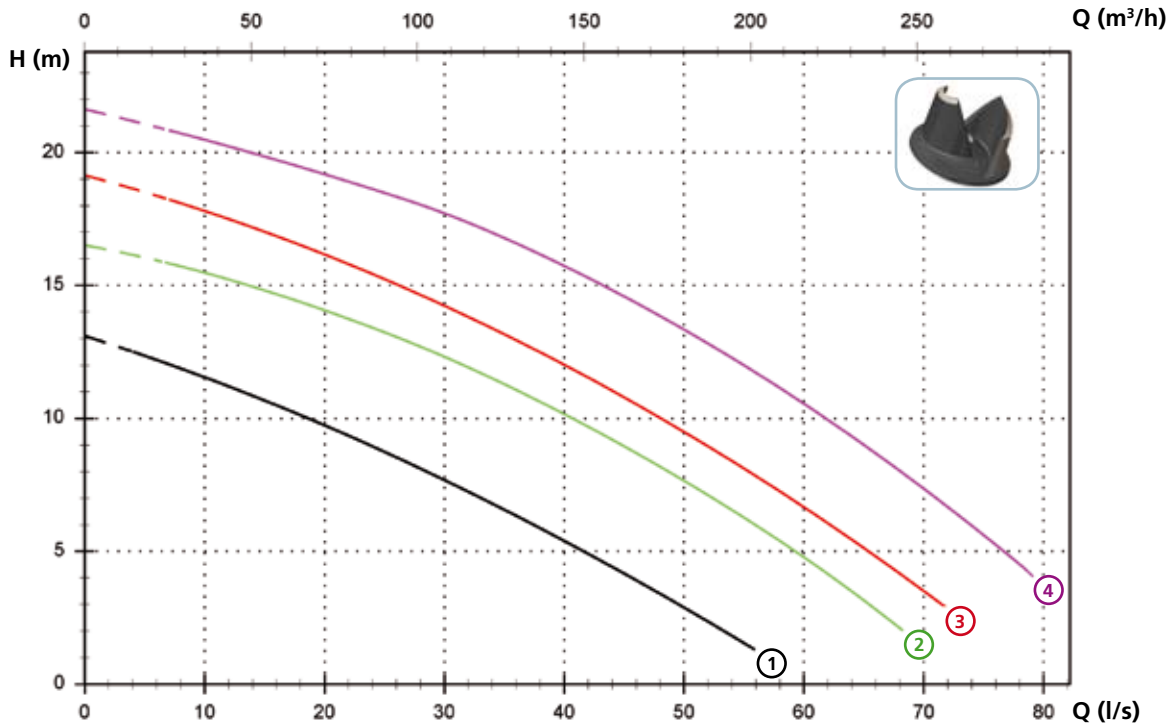
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage	
①	DRP 550/4/80 A0GT/50	400	3	5.9	4.6	10.1	1450	DN80 PN10-16	A	60x70 mm
②	DRP 750/4/80 A0HT/50	400	3	8.6	6.5	14.9	1450	DN80 PN10-16	B	60x70 mm
③	DRP 1000/4/80 A0HT/50	400	3	11.5	8.9	20	1450	DN80 PN10-16	B	60x70 mm
④	DRP 1500/4/80 A0IT/50	400	3	15.8	13.6	28.2	1450	DN80 PN10	C	50x70 mm
⑤	DRP 2000/4/80 A0IT/50	400	3	20.7	16.4	36	1450	DN80 PN10	C	50x70 mm

(\*) A = 07RN-F 4G2.5+3x1  
 B = 07RN-F 7G1.5+3x0.75 - 10 m  
 C = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

Models with horizontal DN100 PN10-16 flanged delivery port - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage	
①	DRP 550/4/100 A0GT/50	400	3	5.9	4.6	10.1	1450	DN100 PN10-16	A	65x70 mm
②	DRP 750/4/100 A0HT/50	400	3	8.6	6.5	14.9	1450	DN100 PN10-16	B	85x95 mm
③	DRP 1000/4/100 A0HT/50	400	3	11.5	8.9	20	1450	DN100 PN10-16	B	80x95 mm
④	DRP 1500/4/100 A0IT/50	400	3	15.8	13.6	28.2	1450	DN100 PN10-16	C	70x95 mm

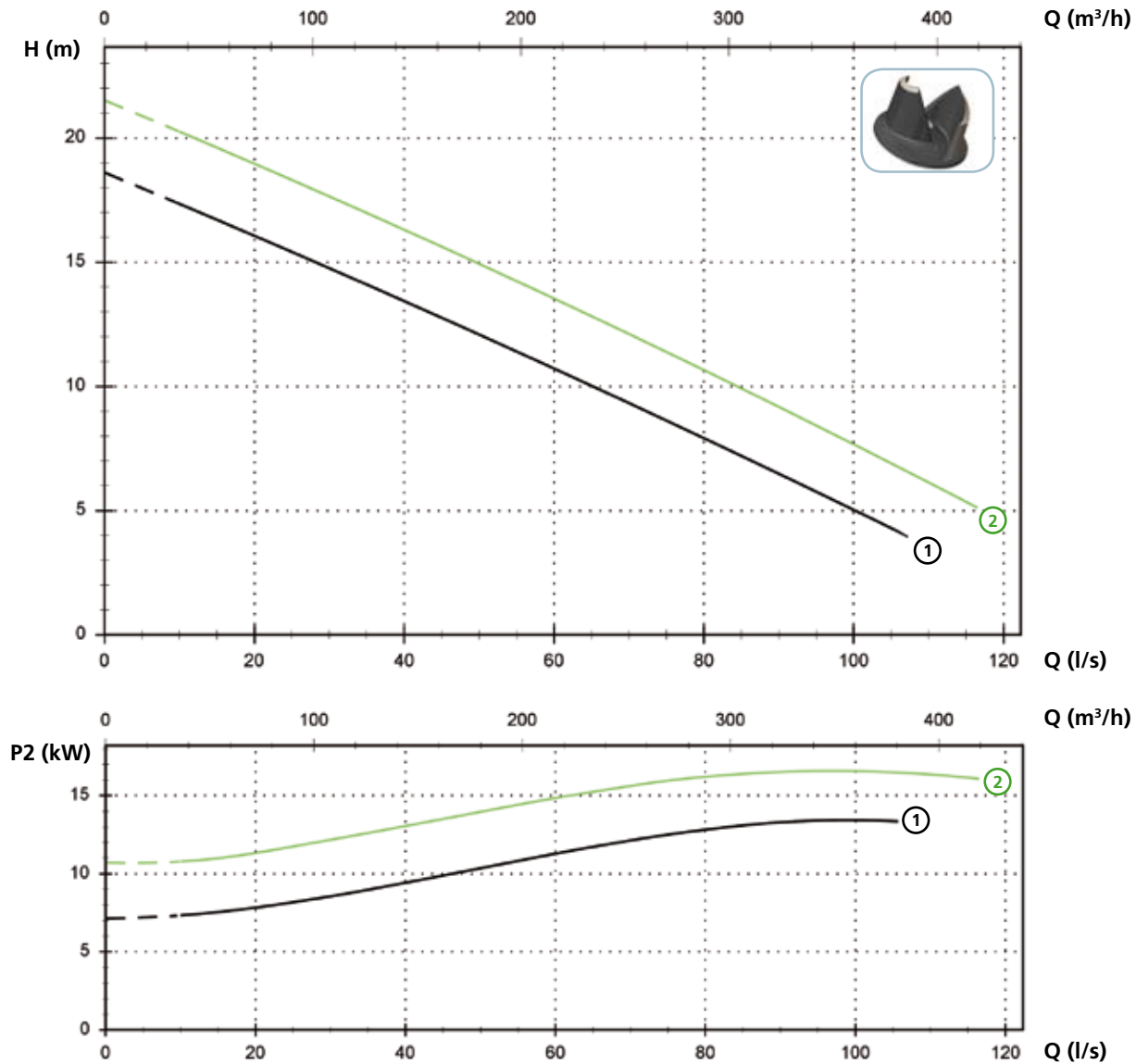
(\*) A = 07RN-F 4G2.5+3x1 - 10 m  
 B = 07RN-F 7G1.5+3x0.75 - 10 m  
 C = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

# DRP

## Models with horizontal DN125 PN10-16 flanged delivery port - 4 poles

### Performances



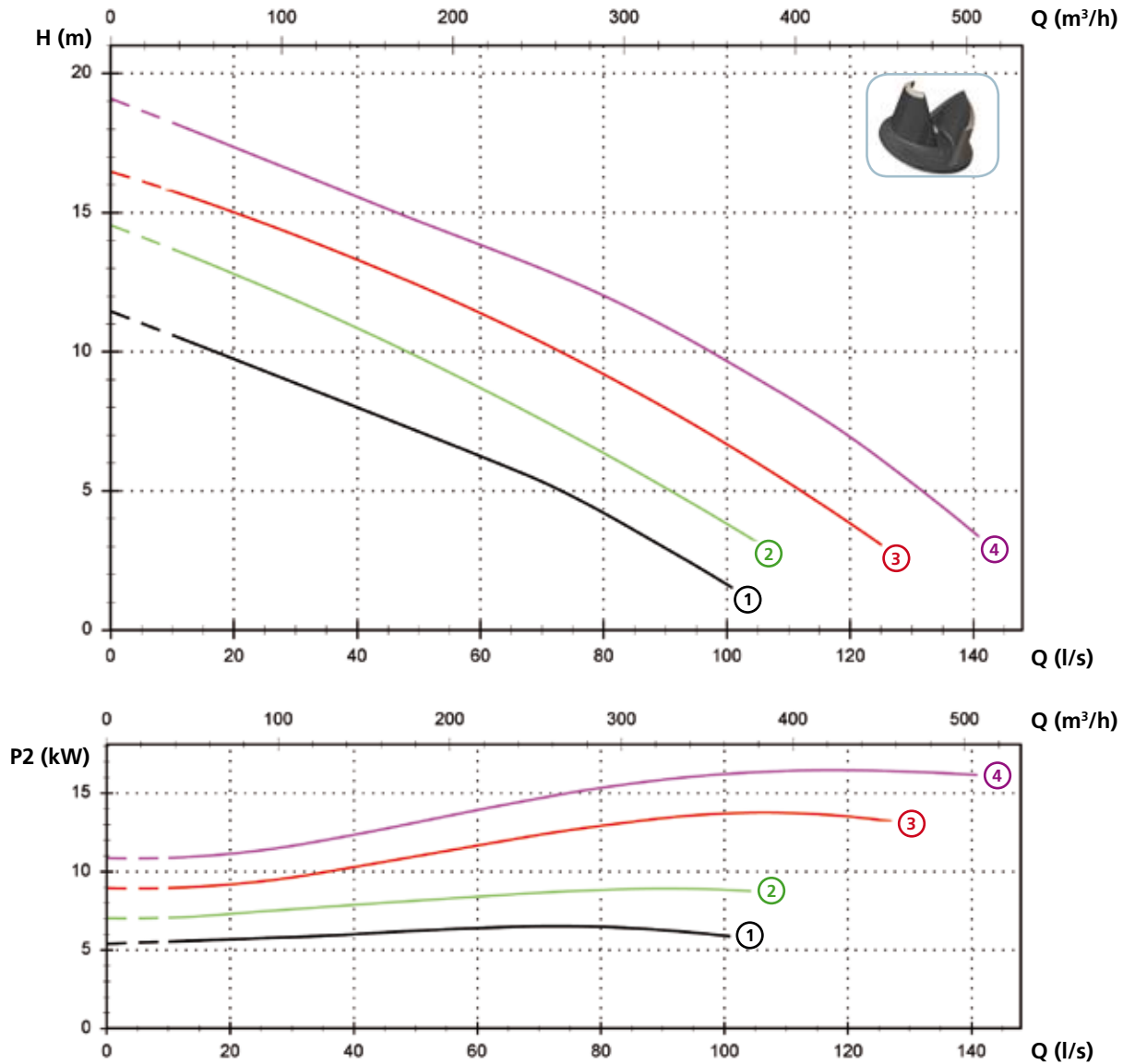
### Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Ø	Cable (*)	Free passage	
①	DRP 1500/4/125 A0IT/50	400	3	15.8	13.6	28.2	1450	DN125 PN10	A	90x105 mm
②	DRP 2000/4/125 A0IT/50	400	3	20.7	16.4	36	1450	DN125 PN10	A	90x105 mm

(\*) A = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Models with horizontal DN150 PN10-16 flanged delivery port - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage	
①	DRP 750/4/150 A0HT/50	400	3	8.6	6.5	14.9	1450	DN150 PN10-16	A	95 mm
②	DRP 1000/4/150 A0HT/50	400	3	11.5	8.9	20	1450	DN150 PN10-16	A	95 mm
③	DRP 1500/4/150 A0IT/50	400	3	15.8	13.6	28.2	1450	DN150 PN10-16	B	95x110 mm
④	DRP 2000/4/150 A0IT/50	400	3	20.7	16.4	36	1450	DN150 PN10-16	B	95x115 mm

(\*) A = 07RN-F 7G1.5+3x0.75 - 10 m  
 B = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

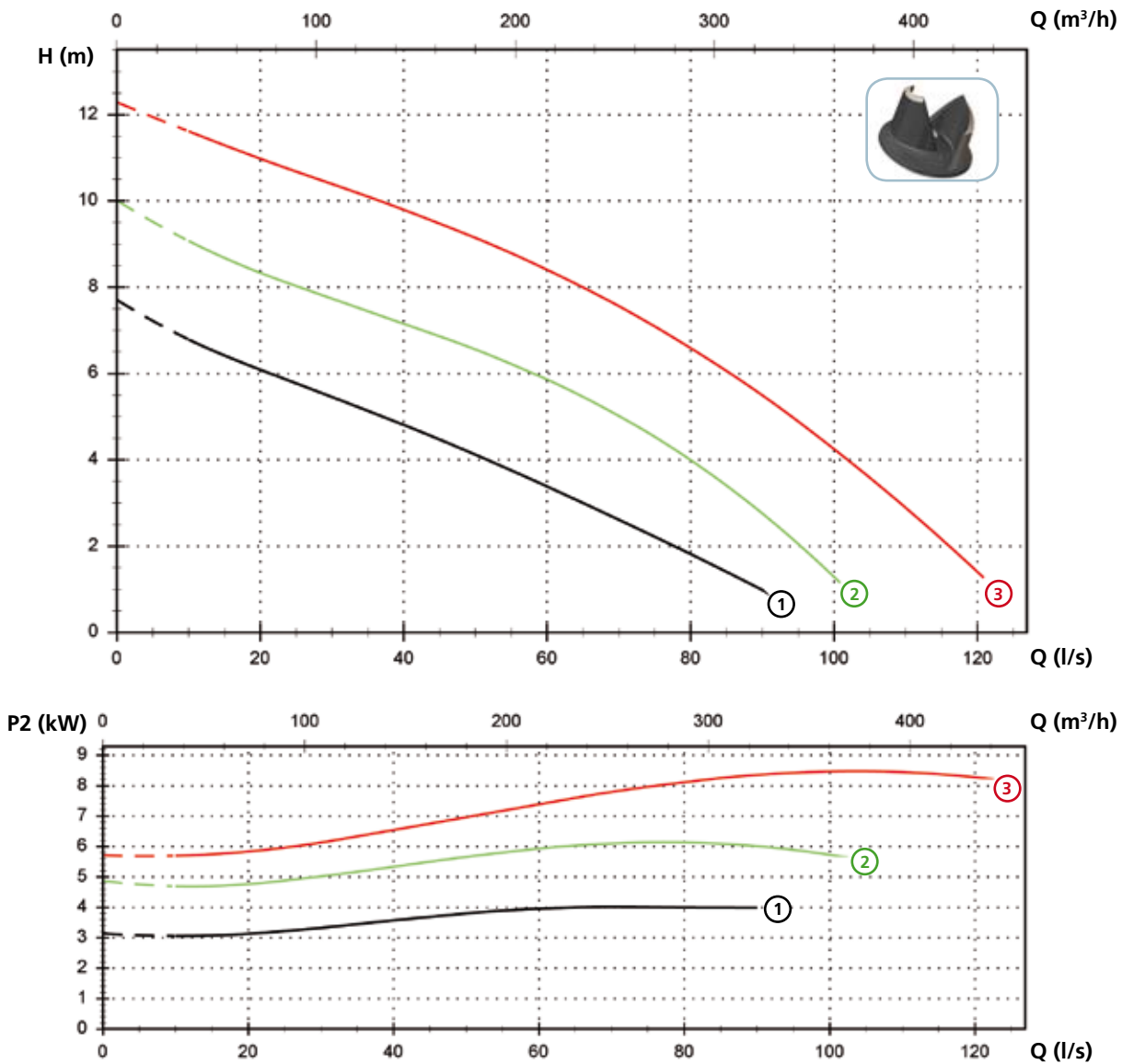




# DRP

## Models with horizontal DN150 PN10-16 flanged delivery port - 6 poles

### Performances



### Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Ø	Cable (*)	Free passage
①	400	3	5.3	4.1	10.7	960	DN150 PN10-16	A	115 mm
②	400	3	7.8	6.1	15.2	960	DN150 PN10-16	A	110x125 mm
③	400	3	11.4	8.4	20.1	960	DN150 PN10-16	B	95x115 mm

(\*) A = 07RN-F 7G1.5+3x0.75 - 10 m  
 B = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

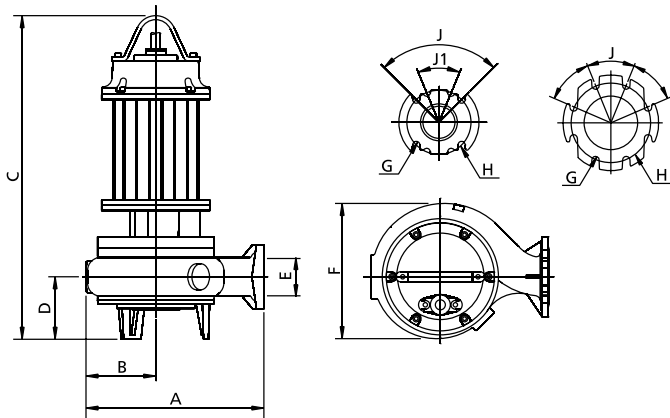
**Versions available**

(Key to versions on page 15)

	Electrical variants											Cooling		Mechanical seals						
	N A E	T	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 S	T R	T R G	F T	C G F T	N	CC	2SIC	SICM	SICAL	2SICAL
DRP 750/2/80 A0HT/50		●								●					●	●				●
DRP 1000/2/80 A1HT/50		●								●					●	●				●
DRP 1500/2/80 A0HT/50		●								●					●	●				●
DRP 2000/2/80 A0IT/50		●								●					●	●				●
DRP 1000/2/100 A1HT/50		●								●					●	●				●
DRP 1500/2/100 A0HT/50		●								●					●	●				●
DRP 550/4/80 A0GT/50		●								●					●	●				●
DRP 750/4/80 A0HT/50		●								●					●	●				●
DRP 1000/4/80 A0HT/50		●								●					●	●				●
DRP 1500/4/80 A0IT/50		●								●					●	●				●
DRP 2000/4/80 A0IT/50		●								●					●	●				●
DRP 550/4/100 A0GT/50		●								●					●	●				●
DRP 750/4/100 A0HT/50		●								●					●	●				●
DRP 1000/4/100 A0HT/50		●								●					●	●				●
DRP 1500/4/100 A0IT/50		●								●					●	●				●
DRP 1500/4/125 A0IT/50		●								●					●	●				●
DRP 2000/4/125 A0IT/50		●								●					●	●				●
DRP 750/4/150 A0HT/50		●								●					●	●				●
DRP 1000/4/150 A0HT/50		●								●					●	●				●
DRP 1500/4/150 A0IT/50		●								●					●	●				●
DRP 2000/4/150 A0IT/50		●								●					●	●				●
DRP 550/6/150 A0HT/50		●								●					●	●				●
DRP 750/6/150 A0HT/50		●								●					●	●				●
DRP 1000/6/150 A0IT/50		●								●					●	●				●

# DRP

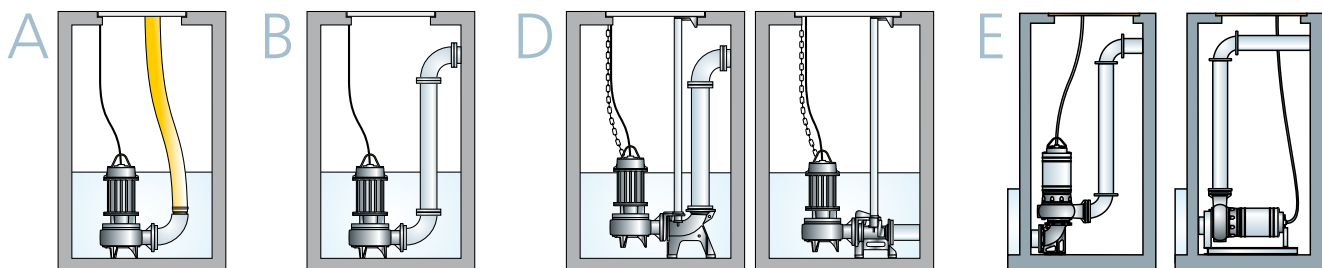
## Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	J1	kg
DRP 750/2/80 A0HT/50	390	150	770	150	80	295	18	160	90°	45°	100
DRP 1000/2/80 A1HT/50	390	150	770	150	80	295	18	160	90°	45°	105
DRP 1500/2/80 A0HT/50	390	150	770	150	80	295	18	160	90°	45°	128
DRP 2000/2/80 A0IT/50	390	150	935	150	80	310	18	160	90°	45°	158
DRP 1000/2/100 A1HT/50	415	160	798	155	100	310	18	180	45°	-	108
DRP 1500/2/100 A0HT/50	415	160	830	155	100	310	18	180	45°	-	130
DRP 550/4/80 A0GT/50	390	150	725	150	80	290	18	160	90°	45°	82
DRP 750/4/80 A0HT/50	445	175	810	155	80	340	18	160	90°	45°	125
DRP 1000/4/80 A0HT/50	445	175	810	155	80	340	18	160	90°	45°	133
DRP 1500/4/80 A0IT/50	455	200	950	150	80	435	18	160	90°	-	181
DRP 2000/4/80 A0IT/50	455	200	950	150	80	435	18	160	90°	-	196
DRP 550/4/100 A0GT/50	415	160	740	155	100	310	18	180	45°	-	85
DRP 750/4/100 A0HT/50	430	165	820	160	100	335	18	180	45°	-	123
DRP 1000/4/100 A0HT/50	430	165	820	160	100	335	18	180	45°	-	131
DRP 1500/4/100 A0IT/50	430	165	970	160	100	335	18	180	45°	-	171
DRP 1500/4/125 A0IT/50	580	280	1010	200	125	555	18	210	90°	-	199
DRP 2000/4/125 A0IT/50	580	280	1010	200	125	555	18	210	90°	-	220
DRP 750/4/150 A0HT/50	500	215	845	190	150	400	24	240	45°	-	138
DRP 1000/4/150 A0HT/50	500	215	845	190	150	400	24	240	45°	-	146
DRP 1500/4/150 A0IT/50	650	255	1020	205	150	505	24	240	45°	-	213
DRP 2000/4/150 A0IT/50	650	255	1020	205	150	505	24	240	45°	-	228
DRP 550/6/150 A0HT/50	500	215	865	190	150	400	24	240	45°	-	141
DRP 750/6/150 A0HT/50	650	255	900	205	150	505	24	240	45°	-	138
DRP 1000/6/150 A0IT/50	650	255	1019	205	150	505	24	240	45°	-	213

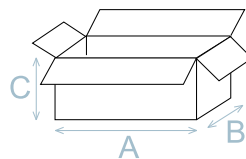
Measurements in mm

## Installations available



**Packaging dimension**

	A	B	C
DRP 750/2/80 A0HT/50	915	515	555
DRP 1000/2/80 A1HT/50	915	515	555
DRP 1500/2/80 A0HT/50	915	515	555
DRP 2000/2/80 A0IT/50	915	515	555
DRP 1000/2/100 A1HT/50	915	515	555
DRP 1500/2/100 A0HT/50	915	515	555
DRP 550/4/80 A0GT/50	725	445	415
DRP 750/4/80 A0HT/50	915	515	555
DRP 1000/4/80 A0HT/50	915	515	555
DRP 1500/4/80 A0IT/50	915	515	555
DRP 2000/4/80 A0IT/50	915	515	555
DRP 550/4/100 A0GT/50	725	445	415
DRP 750/4/100 A0HT/50	915	515	555
DRP 1000/4/100 A0HT/50	915	515	555
DRP 1500/4/100 A0IT/50	915	515	555
DRP 1500/4/125 A0IT/50	1165	720	685
DRP 2000/4/125 A0IT/50	1165	720	685
DRP 750/4/150 A0HT/50	915	515	555
DRP 1000/4/150 A0HT/50	915	515	555
DRP 1500/4/150 A0IT/50	1165	720	685
DRP 2000/4/150 A0IT/50	1165	720	685
DRP 550/6/150 A0HT/50	1165	720	685
DRP 750/6/150 A0HT/50	1165	720	685
DRP 1000/6/150 A0IT/50	1165	720	685



*Dimension in mm*