

# Electric Hydraulic Driven Dredging Pump



- Pump wear parts made from high chrome making it high abrasion resistance
- Pumps have an agitator to aid effective solid pump
- Low rotation speed
- Pump capacity range from 10 m<sup>3</sup>/h to 1500 m<sup>3</sup>/h
- Pump power range from 14 HP to 400 HP
- Delivery distance up to 1.5 km
- Solid handling capacity more than 70% by weight of material density



## Applications

- ❖ Bentonite pumping.
- ❖ Civil emergencies.
- ❖ Dam dredging.
- ❖ Dewatering.
- ❖ Sand and gravel extraction.
- ❖ Offshore platforms.
- ❖ Pumping aggregates in suspension.
- ❖ Sewage treatment plant.
- ❖ Slurry pumping.
- ❖ Steel mill

# Hydraulic pump HY85/160



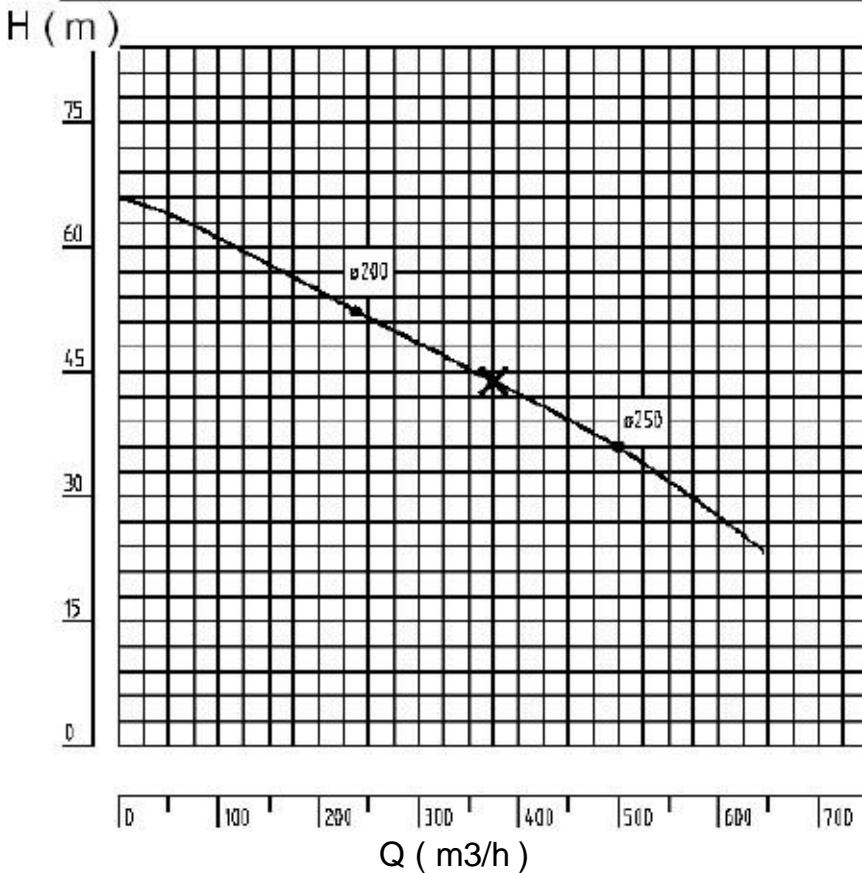
Technical specifications:		
Model:	A	B
Capacity:	250 m <sup>3</sup> /h	500 m <sup>3</sup> /h
Head:	51 m	36 m
Weight:	820 Kg	840 Kg
Cross section:	Ø 60 mm	Ø 60 mm
Impeller:	3 vaned closed / Ø 440 mm	3 vaned closed / Ø 440 mm
Bore:	Ø 200 mm	Ø 250 mm

Motor:		
Speed:	1450 rpm	1450 rpm
Output:	115 Kw (156 HP)	115 Kw (156 HP)
Need of oil:	240 L/min	240 L/min
Oil pressure:	300 bar	300 bar
Motor displacement:	160 c. c.	160 c. c.

**Materials:**  
 Main body: spheroidal cast iron GS500.  
 Motor housing: cast iron GS5.  
 Wearing parts: high chrom.  
 Main shaft: austempering NiCrMo4 Steel.

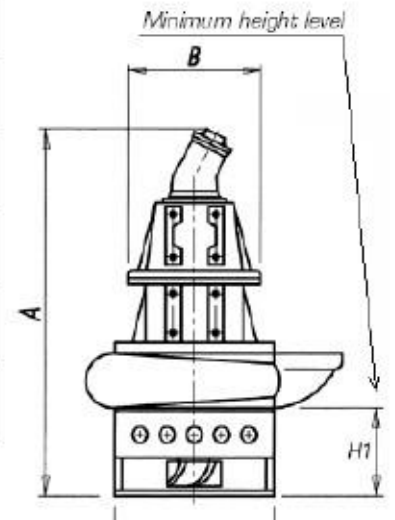
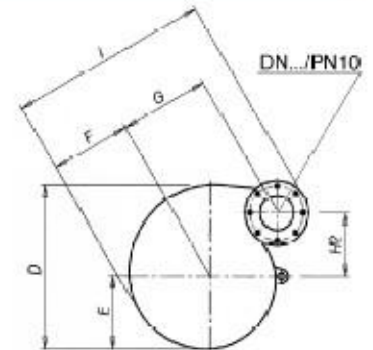
**Seals:**  
 Seals motor zone: n° 2 rubber lip seals.  
 Seals impeller zone: n° 1 polyuretane V-RING , n° 3 rubber lip seals , n° 2 PTFE lip seals with stainless steel spring ( alternate ).

**Performance curve:**



**Dimensions:**

A (mm)	1390
B (mm)	460
C (mm)	548
D (mm)	747
E (mm)	334
F (mm)	362
G (mm)	428
H1 (mm)	290
H2 (mm)	197
I (mm)	933





# Hydraulic pump

# HY50A/B

### Technical specifications:

Model:	A	B
Capacity:	90-108 m <sup>3</sup> /h	140-170 m <sup>3</sup> /h
Head:	30-42 m	22-32 m
Weight:	600 Kg	615 Kg
Cross section:	ø 35 mm	ø 35 mm
Impeller:	2 vani chiusa / ø 490 mm	2 vani chiusa / ø 490 mm
Bore:	ø 100 mm	ø 150 mm

### Motor:

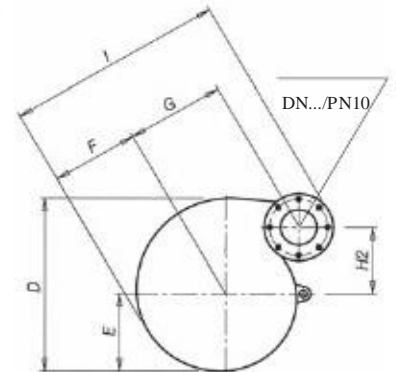
Speed:	980-1180 R.P.M.	980-1180 R.P.M.
Output:	26-37 kW ( 35-50 HP )	26-37 kW ( 35-50 HP )
Need of oil:	74-89 L/min.	74-89 L/min.
Oil pressure:	210-250 bar	210-250 bar
Motor displacement:	75 c.c.	.c.

### Materiali:

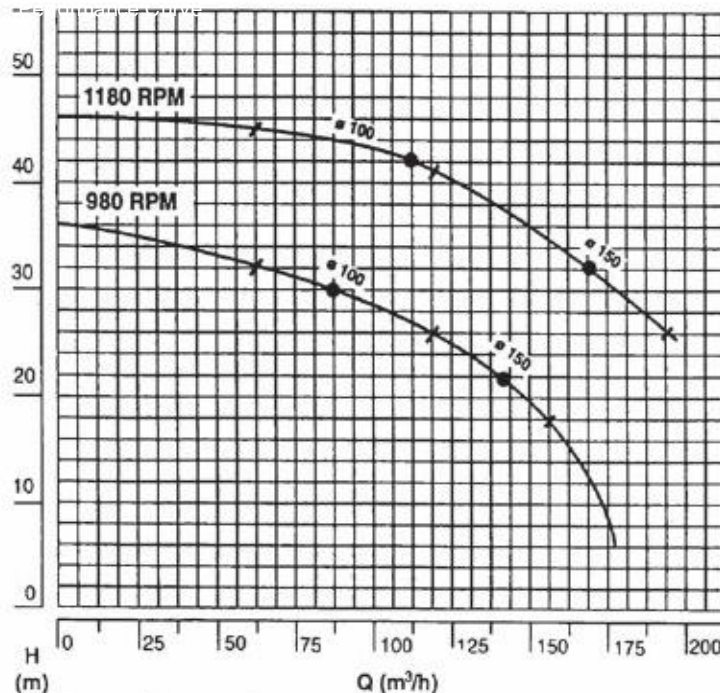
Main Body: spheroidal cast iron GS500.  
 Motor Housing: cast iron G25.  
 Wearing parts: high chrom.  
 Main Shaft: austempering NiCrMo4 Steel.

### Seals:

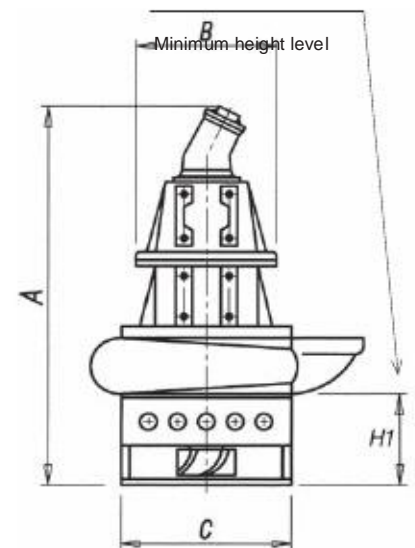
Seals motor zone: n°2 rubber lip seals.  
 Seals impeller zone: n°1 polyuretane V-RING n°1 COMBY lip seal n°2 box duple lip seals.



### Dimensions



A (mm)	1330
B (mm)	460
C (mm)	600
D (mm)	774
E (mm)	363
F (mm)	374
G (mm)	418
H1 (mm)	270
H2 (mm)	298
I (mm)	902



# Hydraulic pump

# HY35A/B

### Technical specifications:

Model:	A	B
Capacity:	100-120 m <sup>3</sup> /h	140-170 m <sup>3</sup> /h
Head:	20-28 m	14-20 m
Weight:	500 Kg	515 Kg
Cross section:	ø 35 mm	ø 35 mm
Impeller:	3 vanes closed / ø 435 mm	3 vanes closed / ø 435 mm
Bore:	ø 100 mm	ø 150 mm

### Motor:

Speed:	980-1180 R.P.M.	980-1180 R.P.M.
Output:	18.5-26 kW ( 25-35 HP )	18.5-26 kW ( 25-35 HP )
Need of oil:	54-65 L/min.	54-65 L/min.
Oil pressure:	210-250 bar	210-250 bar
Motor displacement:	55 c.c.	55 c.c.

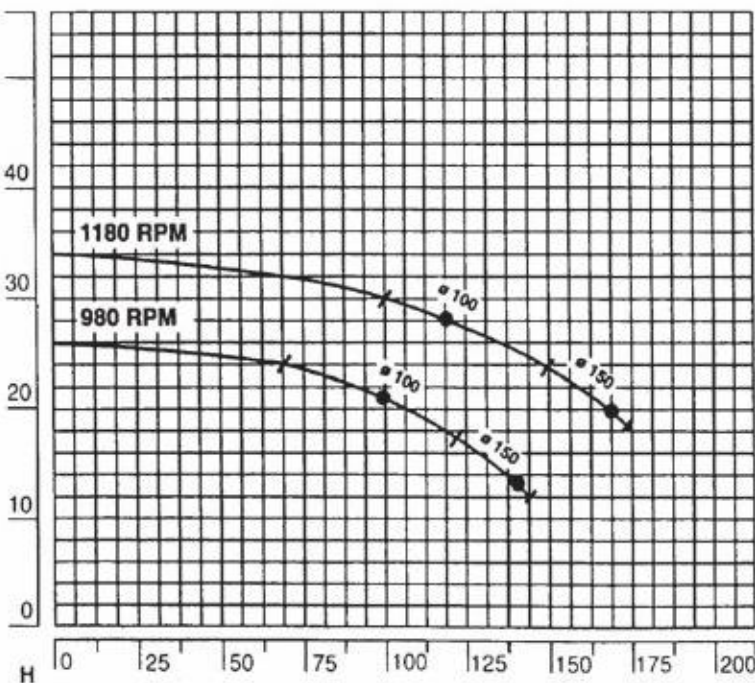
### Materials:

Main Body: spheroidal cast iron GS500.  
 Motor Housing: cast iron G25.  
 Wearing parts: high chrom.  
 Main Shaft: austempering NiCrMo4 Steel.

### Seals:

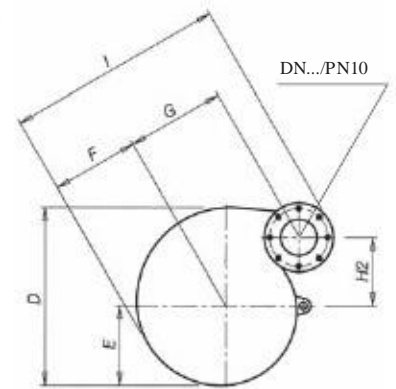
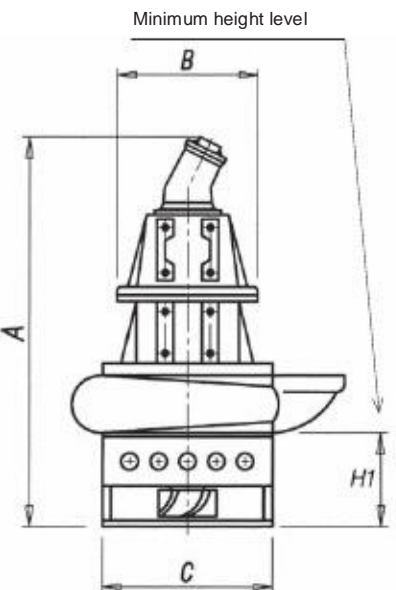
Seals motor zone: n°2 rubber lip seals.  
 Seals impeller zone: n°1 polyuretane V-RING n°3 rubber lip seals n°2 PTFE lip seals with stainless steel spring (alternate).

### Performance Curve



### Dimensions

A (mm)	1210
B (mm)	420
C (mm)	540
D (mm)	667
E (mm)	323
F (mm)	327
G (mm)	380
H1 (mm)	270
H2 (mm)	145
I (mm)	818





# Hydraulic pump

# HY50HC

### Technical specifications:

Capacity:	210 m <sup>3</sup> /h	250 m <sup>3</sup> /h
Head:	15 m	21 m
Weight:	700 Kg	700 Kg
Cross section:	ø 60 mm	ø 60 mm
Impeller:	2 vanes closed / ø 380 mm	2 vanes closed / ø 380 mm
Bore:	ø 150 mm	ø 150 mm

### Motor:

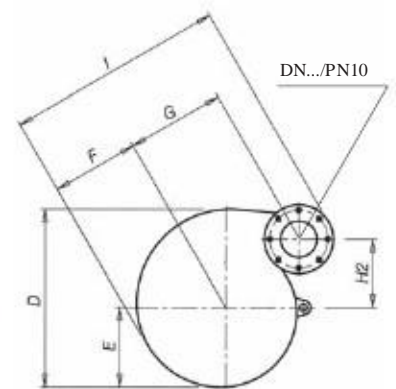
Speed:	980 R.P.M.	1180 R.P.M.
Output:	26 kW ( 35 HP )	37 kW ( 50 HP )
Need of oil:	74 L/min.	89 L/min.
Oil pressure:	210 bar	250 bar
Motor displacement:	75 c.c.	75 c.c.

### Material:

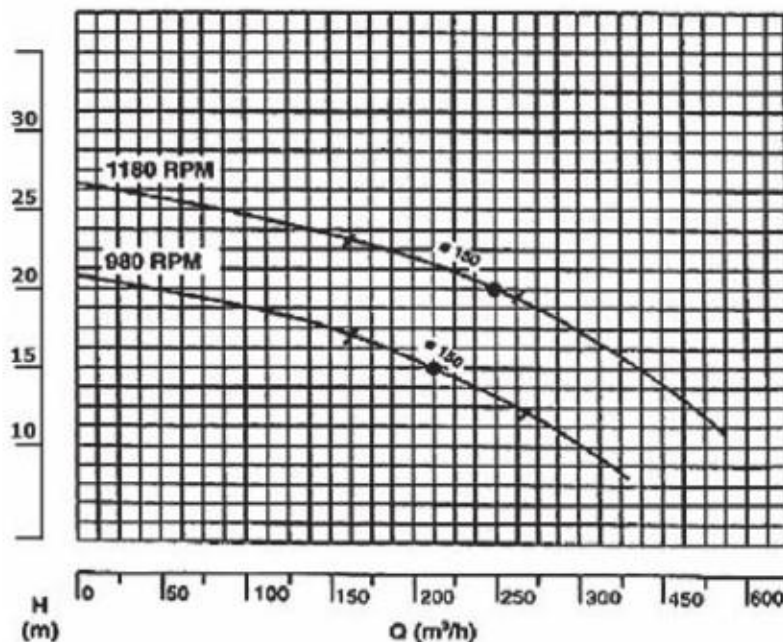
Main Body: spheroidal cast iron GS500.  
 Motor Housing: cast iron G25.  
 Wearing parts: high chrom.  
 Main Shaft: austempering NiCrMo4 Steel.

### Seals:

Seals motor zone: n°2 rubber lip seals.  
 Seals impeller zone: n°1 polyuretane V-RING n°3 rubber lip seals n°2 PTFE lip seals with stainless steel spring (alternate).

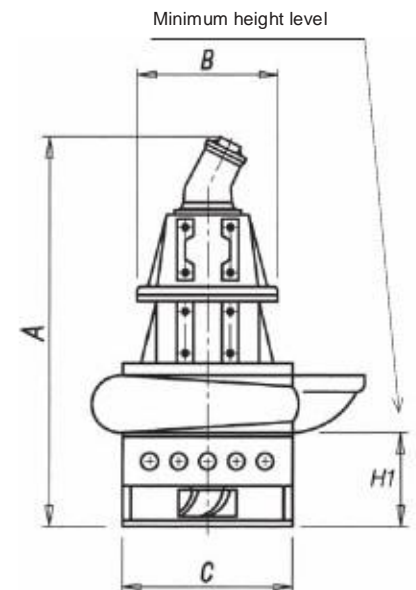


### Performance Curve



### Dimensions

A (mm)	1425
B (mm)	460
C (mm)	540
D (mm)	736
E (mm)	334
F (mm)	350
G (mm)	412
H1 (mm)	270
H2 (mm)	282
I (mm)	902



# Hydraulic pump

# HY85A/B

### Technical specifications:

Model:	A	B
Capacity:	200-240 m <sup>3</sup> /h	350-420 m <sup>3</sup> /h
Head:	22-30 m	16-23 m
Weight:	700 Kg	720 Kg
Cross section:	ø 60 mm	ø 60 mm
Impeller:	3 vanes closed / ø 440 mm	3 vanes closed / ø 440 mm
Bore:	ø 150 mm	ø 200 mm

### Motor:

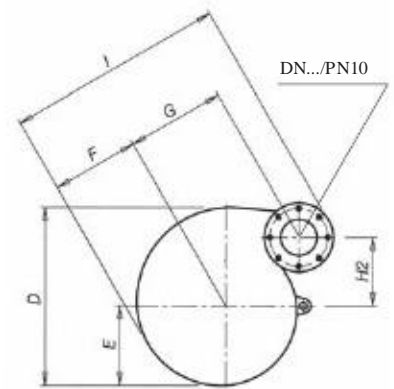
Speed:	980-1180 R.P.M.	980-1180 R.P.M.
Output:	44-62 kW ( 60-85 HP )	44-62 kW ( 60-85 HP )
Need of oil:	106-130 L/min.	106-130 L/min.
Oil pressure:	250-300 bar	250-300 bar
Motor displacement:	108 c.c.	108 c.c.

### Material:

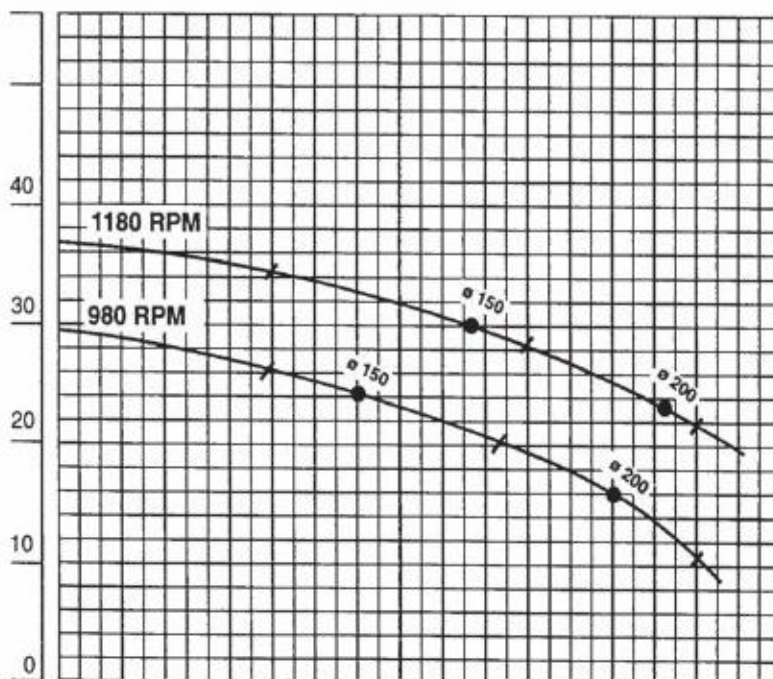
Main Body: spheroidal cast iron GS500.  
 Motor Housing: cast iron G25.  
 Wearing parts: high chrom.  
 Main Shaft: austempering NiCrMo4 Steel.

### Seals:

Seals motor zone: n°2 rubber lip seals.  
 Seals impeller zone: n°1 polyuretane V-RING n°3 rubber lip seals n°2 PTFE lip seals with stainless steel spring (alternate).

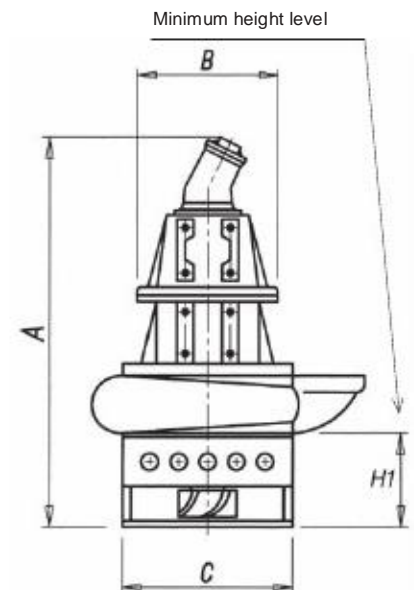


### Performance Curve



### Dimensions

A (mm)	1390
B (mm)	460
C (mm)	548
D (mm)	747
E (mm)	334
F (mm)	362
G (mm)	428
H1 (mm)	290
H2 (mm)	197





# Hydraulic pump

# HY85HC

### Technical specifications:

Capacity:	720 m3/h	860 m3/h
Head:	5m	7m
Weight:	1000 Kg	1000 Kg
Cross section:	ø 90 mm	ø 90 mm
Impeller:	3 vanes closed / ø 405 mm	3 vanes closed / ø 405 mm
Bore:	ø 250 mm	ø 250 mm

### Motor:

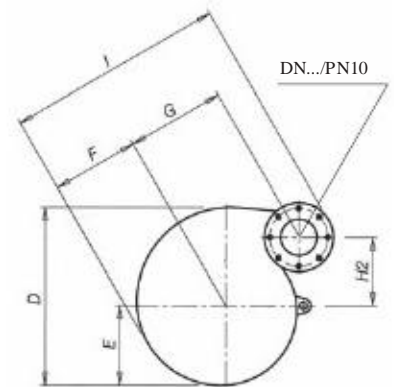
Speed:	980 R.P.M.	1180 R.P.M.
Output:	44 kW ( 60 HP )	62 kW ( 85 HP )
Need of oil:	106 L/min.	130 L/min.
Oil pressure:	250 bar	300 bar
Motor displacement:	108 c.c.	108 c.c.

### Material:

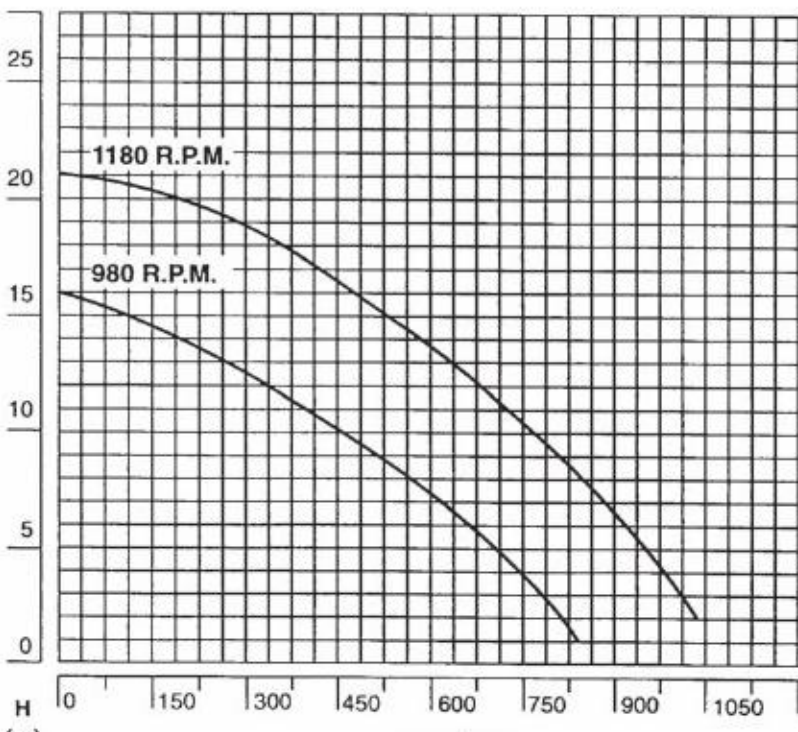
Main Body: spheroidal cast iron GS500.  
 Motor Housing: cast iron G25.  
 Wearing parts: high chrom.  
 Main Shaft: austempering NiCrMo4 Steel.

### Seals:

Seals motor zone: n°2 rubber lip seals.  
 Seals impeller zone: n°1 polyuretane V-RING n°3 rubber lip seals n°2 PTFE lip seals with stainless steel spring (alternate).

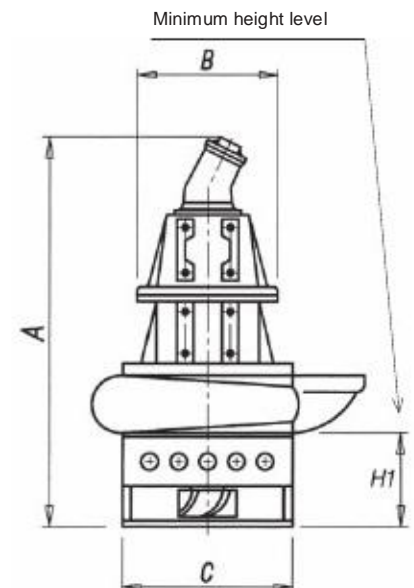


### Performance Curve



### Dimensions

A (mm)	1470
B (mm)	460
C (mm)	548
D (mm)	1020
E (mm)	449
F (mm)	478
G (mm)	485
H1 (mm)	326
H2 (mm)	340
I (mm)	1165



# Hydraulic pump HY50-108A/B

Technical specifications:		
Model:	A	B
Capacity:	100 m <sup>3</sup> /h	200 m <sup>3</sup> /h
Head:	63 m	48 m
Weight:	600 Kg	620 Kg
Cross section:	Ø 35 mm	Ø 35 mm
Impeller:	2 vanes closed / Ø 490 mm	2 vanes closed / Ø 490 mm
Bore:	Ø 100mm	Ø 150 mm

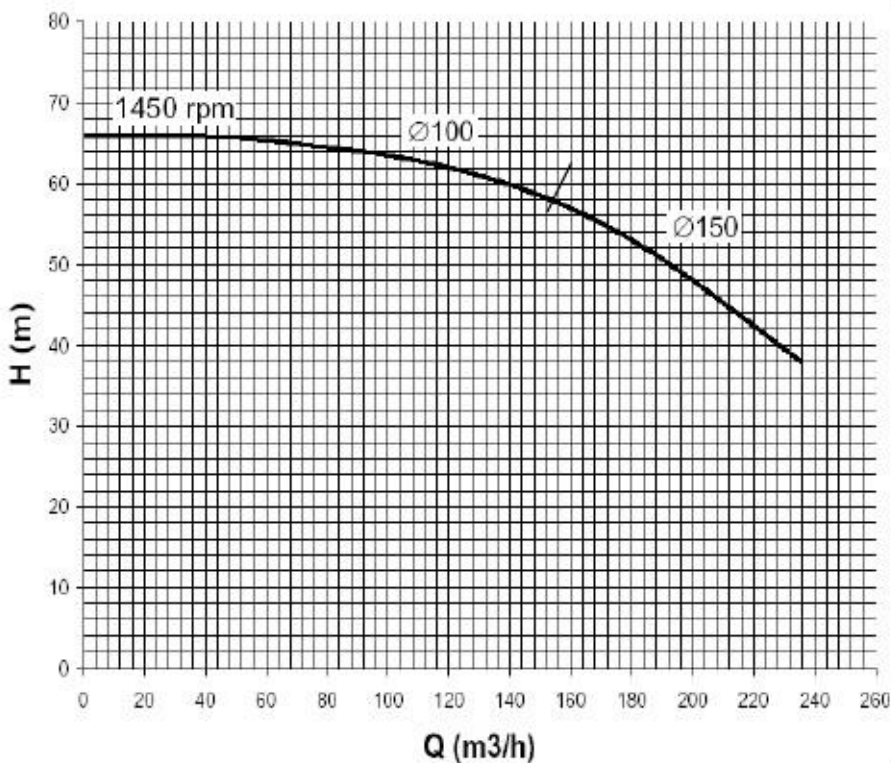
Motor:		
Speed:	1450 rpm	1450 rpm
Output:	64 kW (85 HP)	64 kW (85 HP)
Need of oil:	160 L/min	160 L/min
Oil pressure:	250 bar	250 bar
Motor displacement:	108 c.c.	108 c.c.

**Materials:**  
 Main body: spheroidal cast iron GS500.  
 Motor housing: cast iron GS5.  
 Wearing parts: high chrom.  
 Main shaft: austempering NiCrMo4 Steel.

**Seals:**  
 Seals motor zone: n° 2 rubber lip seals.  
 Seals impeller zone: n° 1 polyuretane V-RING , n° 1 COMBY lip seal , n° 2 box double lip seals.

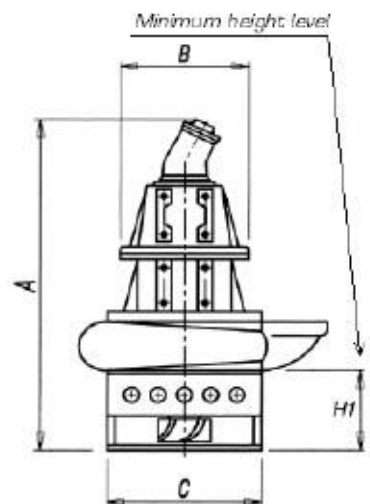
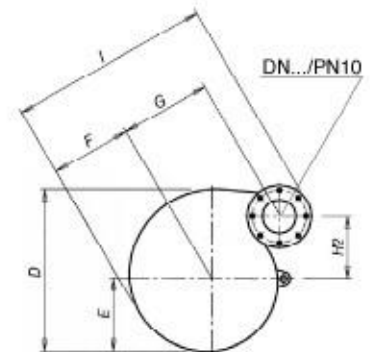


**Performance curves:**



**Dimensions:**

A (mm)	1330
B (mm)	460
C (mm)	600
D (mm)	774
E (mm)	363
F (mm)	374
G (mm)	418
H1 (mm)	270
H2 (mm)	298
I (mm)	902





# Hydraulic pump HY85/160HC

## Technical specifications:

<b>Model:</b>	
Capacity:	800 m <sup>3</sup> /h
Hrad:	18 m
Weight:	1100 Kg
Cross section:	Ø 90 mm
Impeller:	2 vanes closed / Ø 405 mm
Bore:	Ø 250 mm

## Motor:

Speed:	1450 rpm
Autput:	115 kW (156 HP)
Need of oil:	240 L/min
Oil pressare:	300 bar
Motor displacement:	160 c.c.

## Materials:

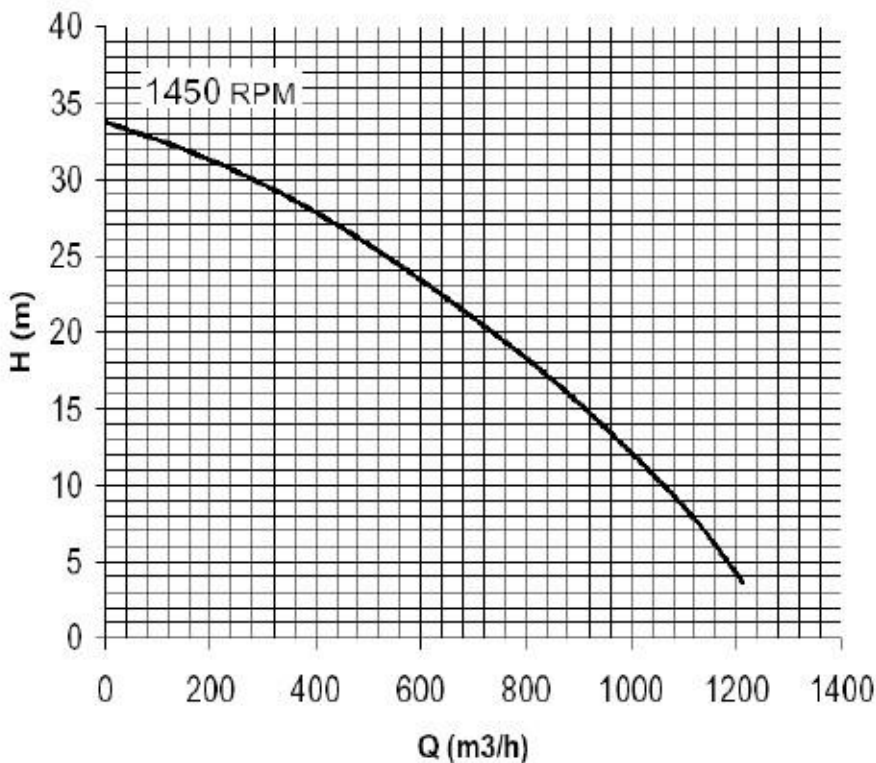
Main body: spheroidal cast iron GS500.  
 Motor housing: cast iron GS5.  
 Wearing parts: high chrom.  
 Main shaft: austempering NiCrMo4 Steel.

## Seals:

Seals motor zone: n° 2 rubber lip seals.  
 Seals impeller zone: n° 1 polyuretane V-RING , n° 3 rubber lip seals , n° 2 PTFE lip seals with stainless steel spring ( alternate ).



## Performance curves:



## Dimensions:

A (mm)	1470
B (mm)	460
C (mm)	548
D (mm)	1020
E (mm)	449
F (mm)	478
G (mm)	485
H1 (mm)	326
H2 (mm)	340
I (mm)	1165

