

Fabricación y Proyectos de Ingeniería Hidráulica - Nuevas Tecnologías

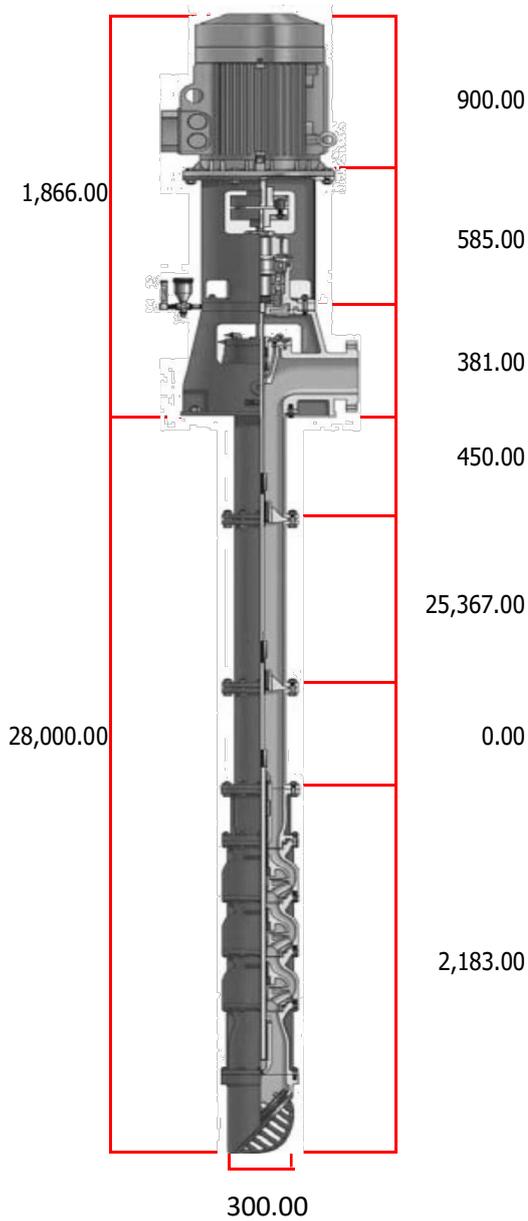


• **BOMBAS
VERTICALES**

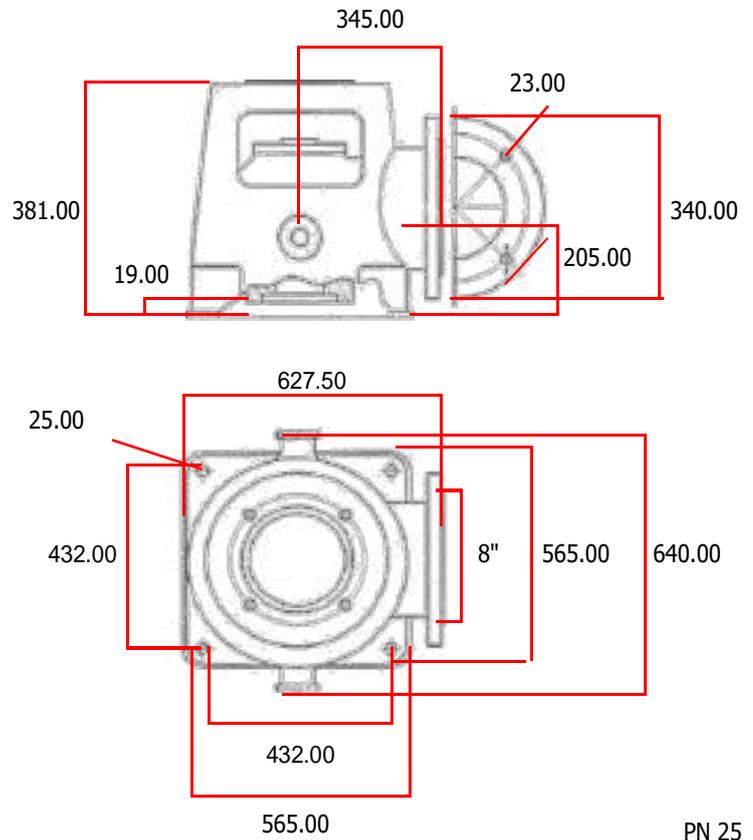
• **VERTICAL PUMP**

• **POMPES VERTICAL**

Dimensiones Bomba Completa



Dimensiones Cabezal

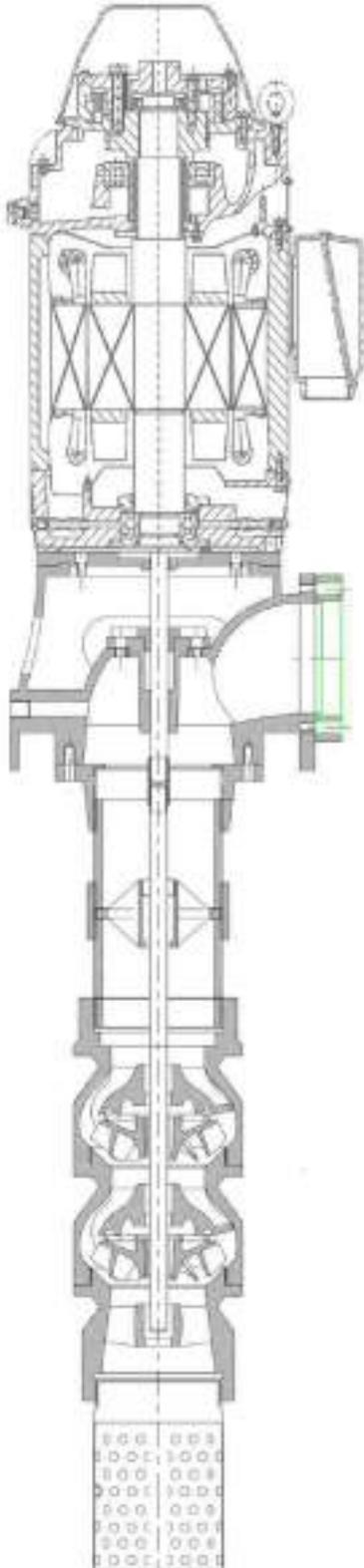


Tipo de Válvula

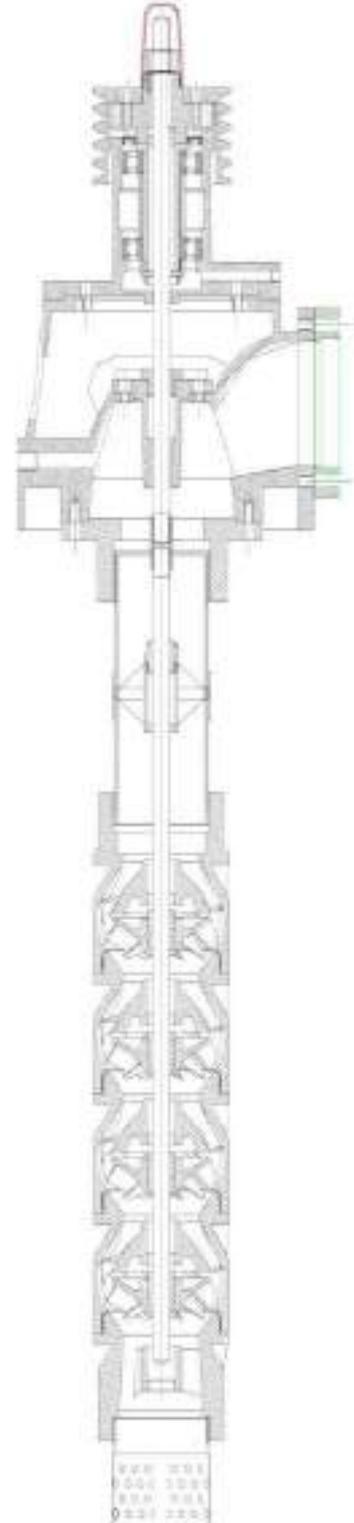
Válvula de pie con sistema de flujo antivórtices



Direct to hollow shaft motor



Motor with V- Belts



4 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 4-HKB

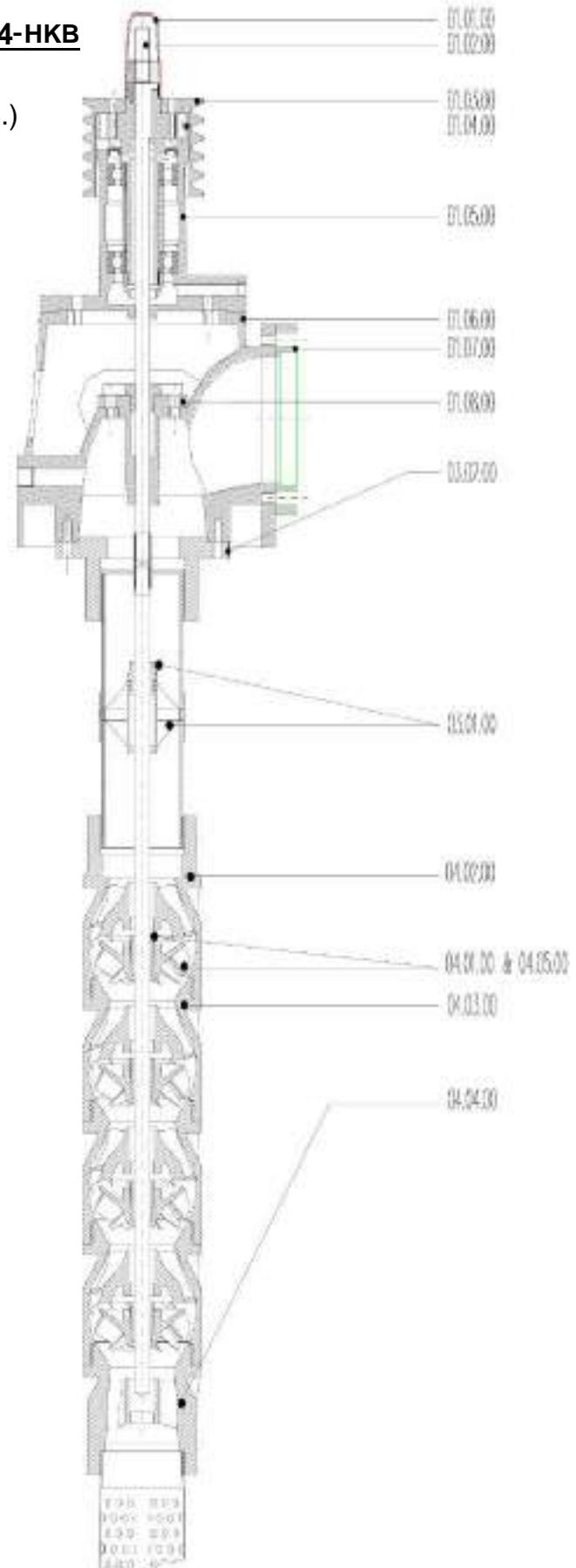
Pump Type	4-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	1.950 kg / 2.110 kg
Bowl Length	104mm
Outer Bowl Diameter	93 mm
Bowl's Connection	Threaded
Impeller Type	SemiClosed
Impeller rotation	Counterclockwise
Impeller Material	Bronze /INOX (S.S.)
Impeller weight	0.350 kg / 0.315 kg
Inner Diameter of Impeller	54 mm
Outer Diameter of impeller	82 mm
Number of Impeller Blades	6
Shaft Material	Stainless Steel
Shaft Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9"
Input Tube Diameter	2.5"
Output Tube Diameter	2.5"

Technical Standards of Shaft and Tubes

Tube Diameter	2.5" – 3"
Tube thickness	5 – 6 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	3/4"
Shaft Connection	Thread Coupling



4 - HKB

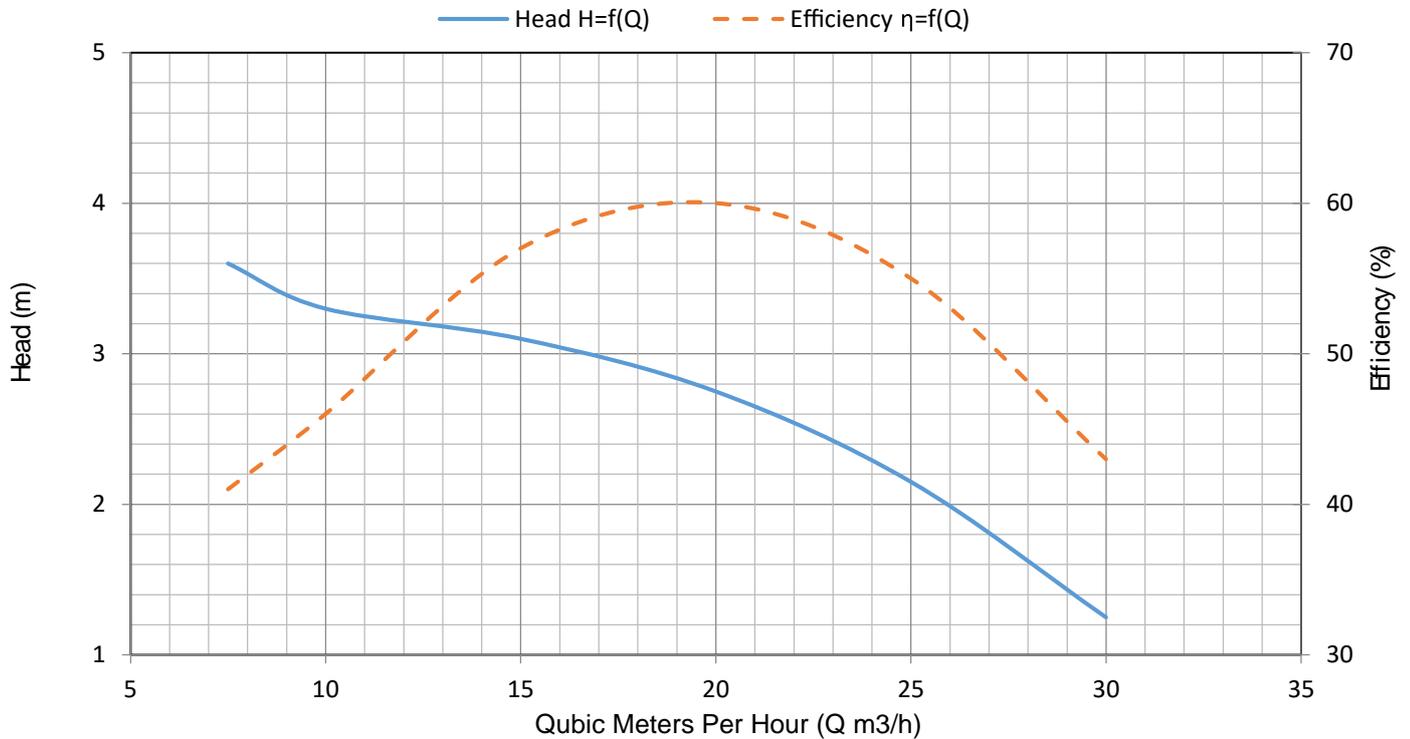


One bowl/stage
Performance Curves

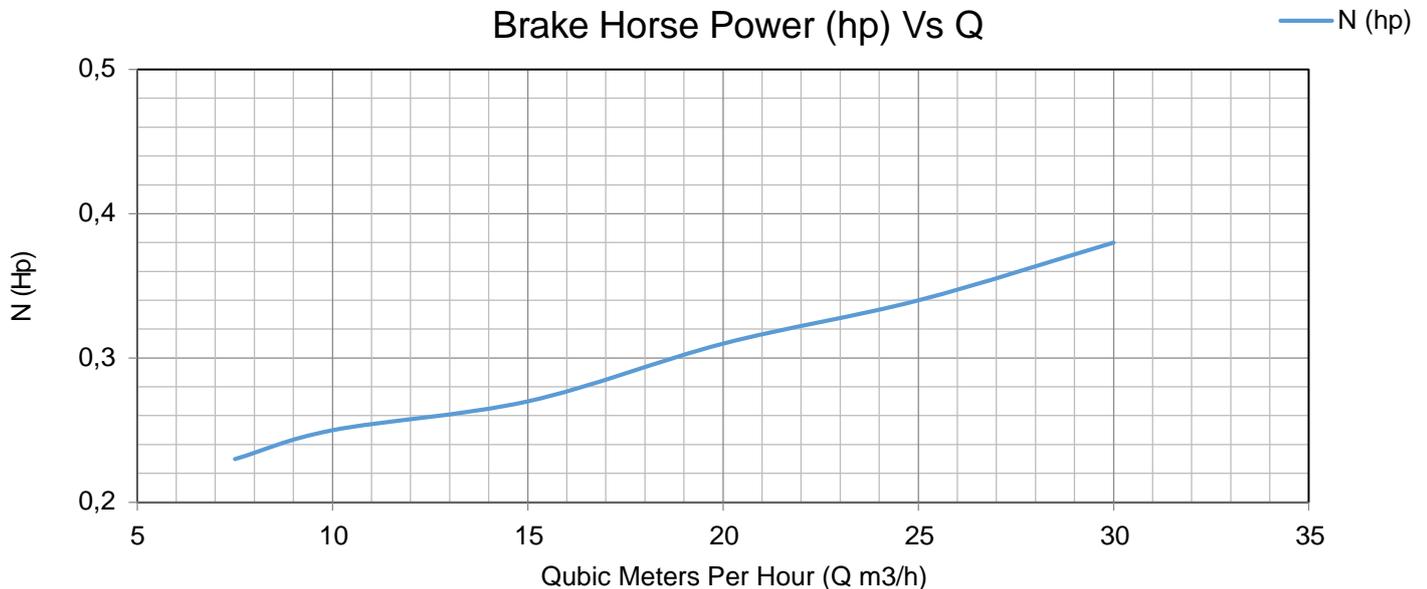
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 4HKB (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	4-HKBF
Type	Semi Closed with Lock Collet
Inner Diameter	53mm
Outer diameter	83mm
Number of Vanes	6
Material	Bronze / INOX
Weight	0.350 kg / 0.315 kg

Bowl Parameters

Model	4-HKB
Outer diameter	93mm
Basic Height	104mm
Standard Shaft Size	3/4"
Shaft alignment in bowl	Bronze / Rubber Bearin
Material	Cast Iron / INOX
Weight	1.95 kg / 2.11 kg

4 - HKB

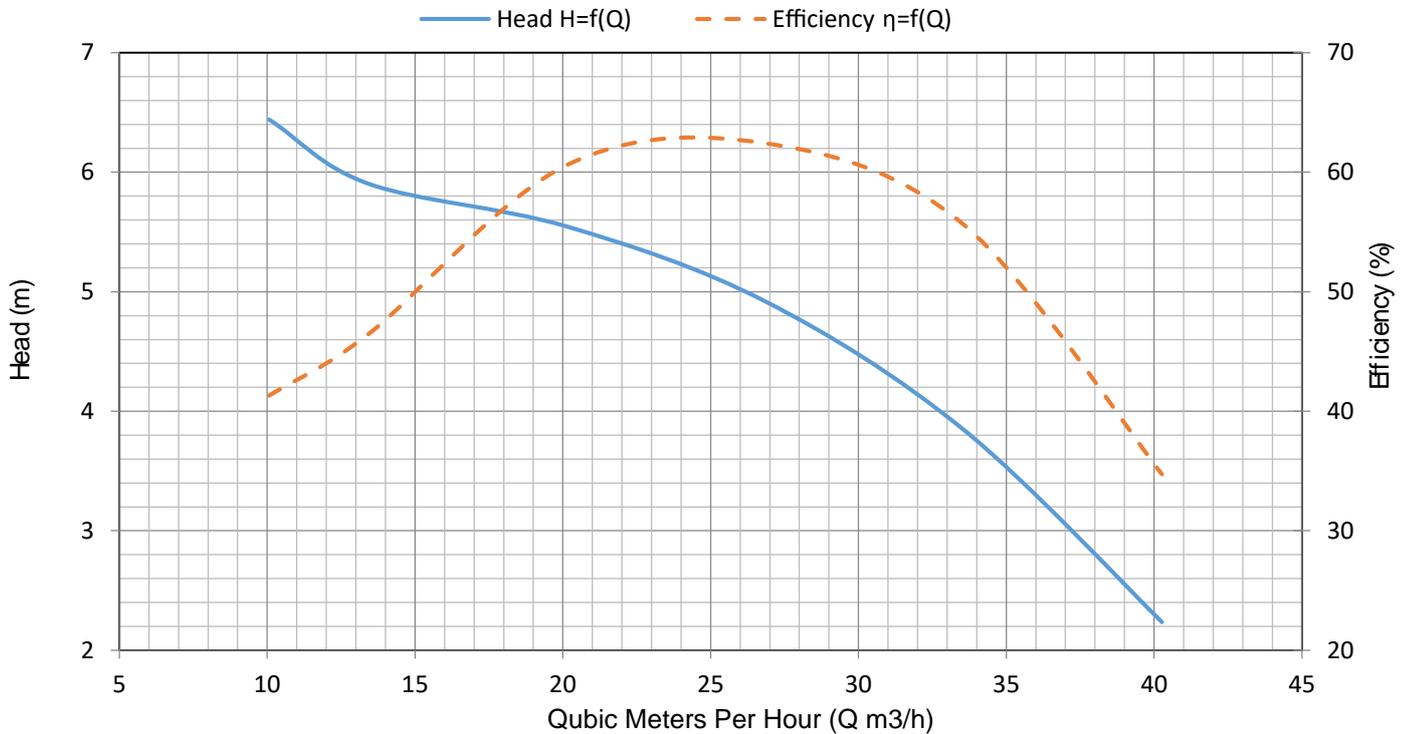


One bowl/stage
Performance Curves

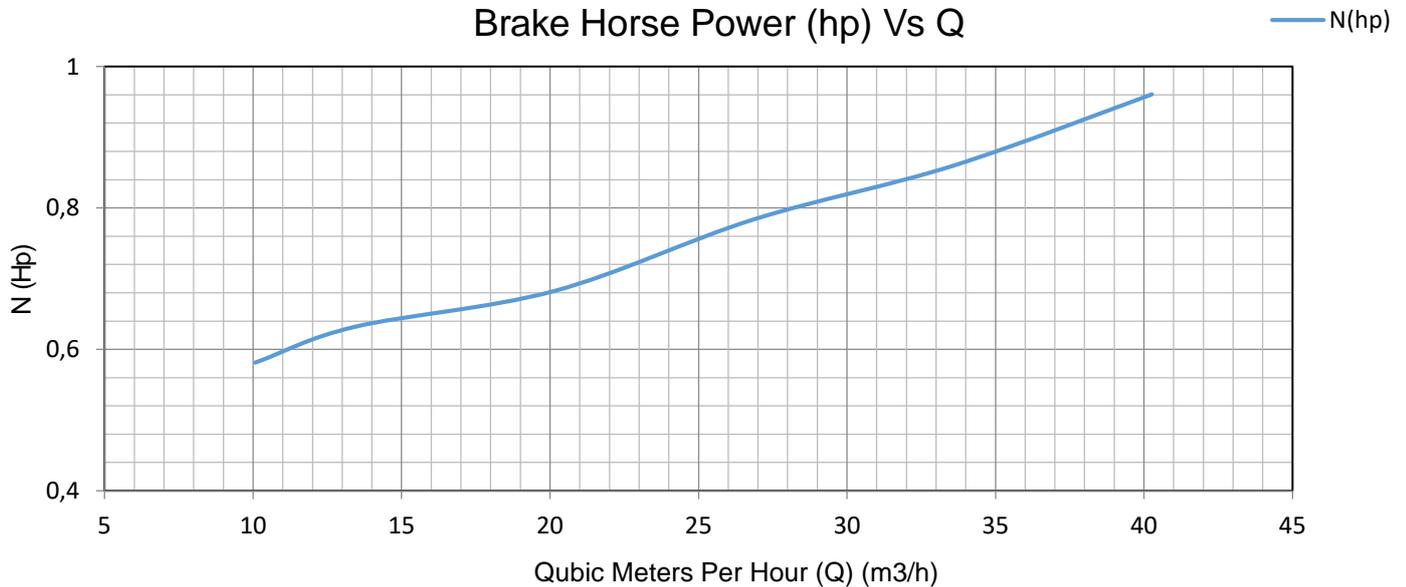
Counterclockwise
at 2960 rpm

Vertical Pump Turbine

Performance Curve For Stage 4HKB (2960RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	4-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	53mm
Outer diameter	83mm
Number of Vanes	6
Material	Bronze / INOX
Weight	0.350 kg / 0.315 kg

Bowl Parameters

Model	4-HKB
Outer diameter	93mm
Basic Height	104mm
Standard Shaft Size	3/4"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	1.95 kg / 2.11 kg

6 - HHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 6-HHKB

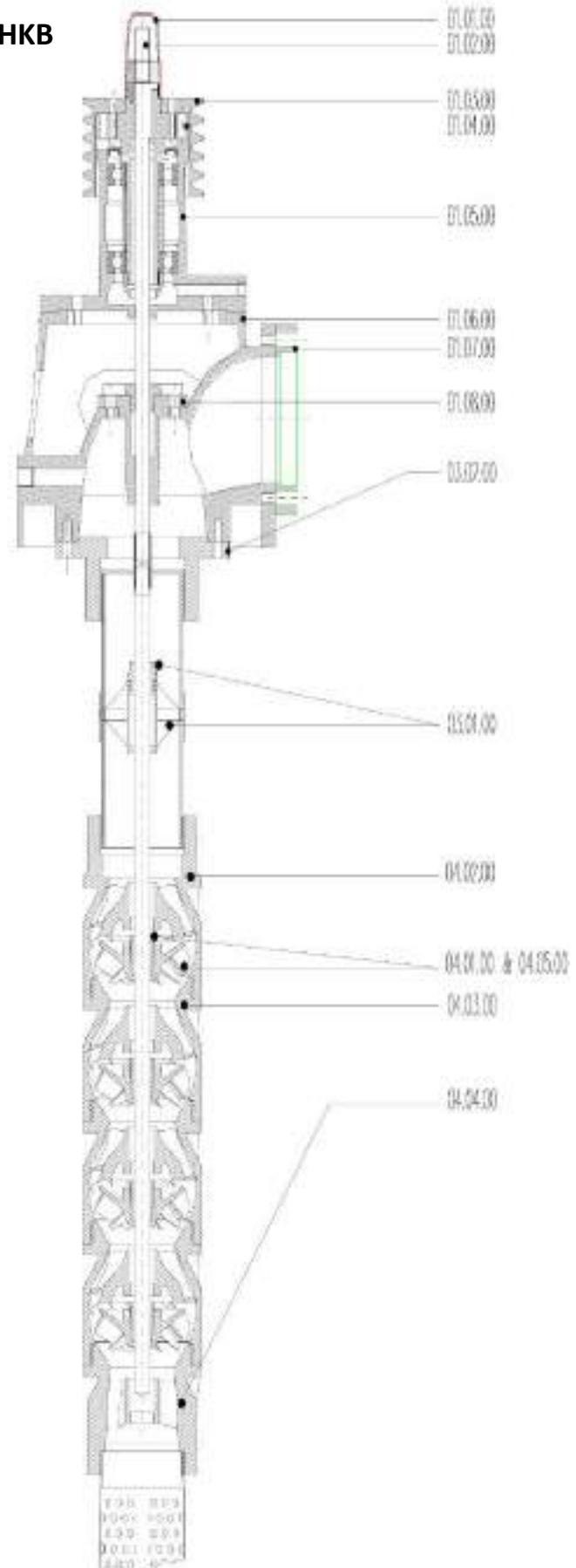
Pump Type	6-HHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	8.1 kg / 8.76 kg
Bowl Length	143 mm
Outer Bowl Diameter	144 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	0.990 kg / 0.890 kg
Inner Diameter of Impeller	123 mm
Outer Diameter of Impeller	167 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9" - SEB 10"
Input Tube Diameter	3" - 4"
Output Tube Diameter	3" - 4"

Technical Standards of Shaft and Tubes

Tube Diameter	3" - 4"
Tube thickness	6 - 6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	3/4" - 7/8" - 1"
Shaft Connection	Thread Coupling



6 - HHKB

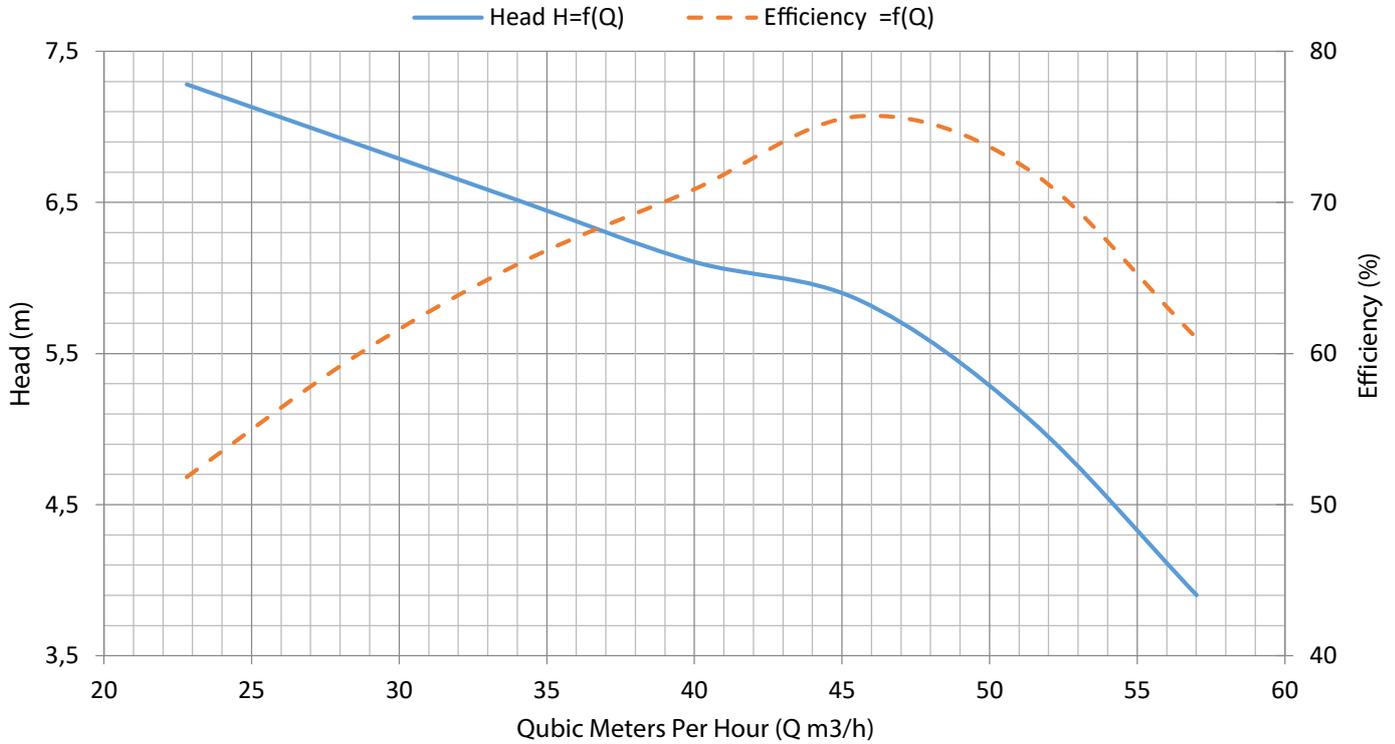


One bowl/stage
Performance Curves

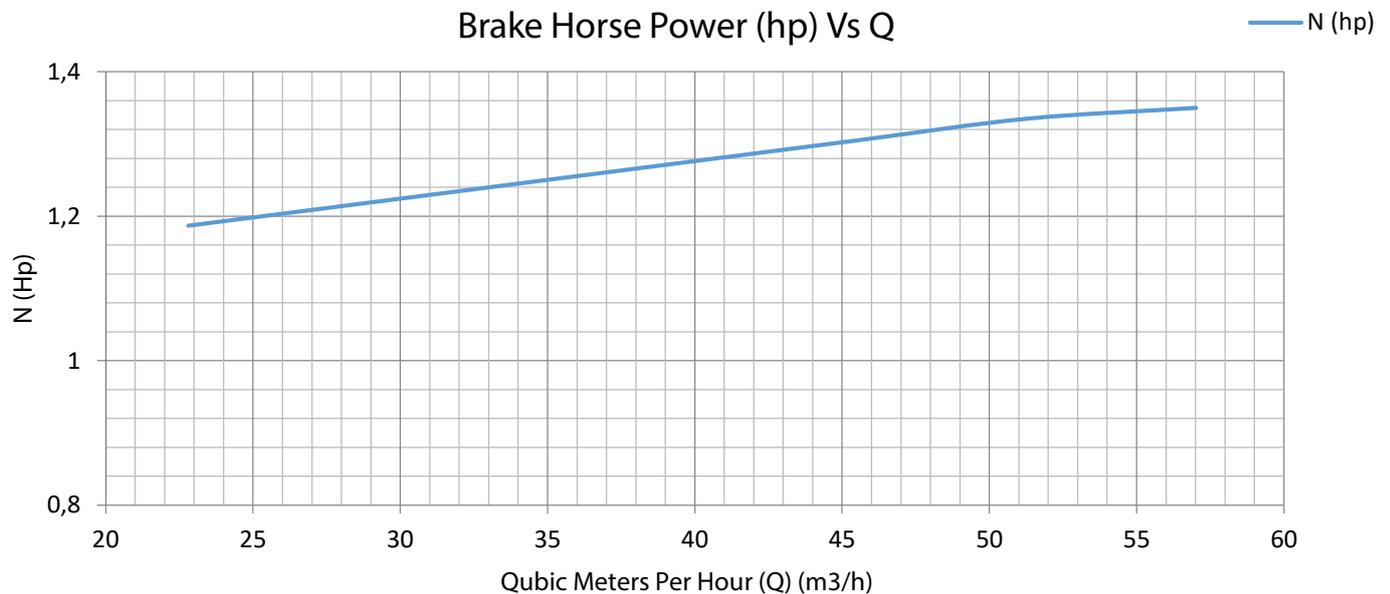
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 6HHKB (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	6-HHKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	74 mm
Outer diameter	124 mm
Number of Vanes	7
Material	Bronze / INOX
Weight	0.990 kg / 0.889 kg

Bowl Parameters

Model	6-HHKB
Outer diameter	144 mm
Basic Height	143 mm
Standard Shaft Size	1 "
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	8.1 kg / 8.76 kg

6 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 6-HKB

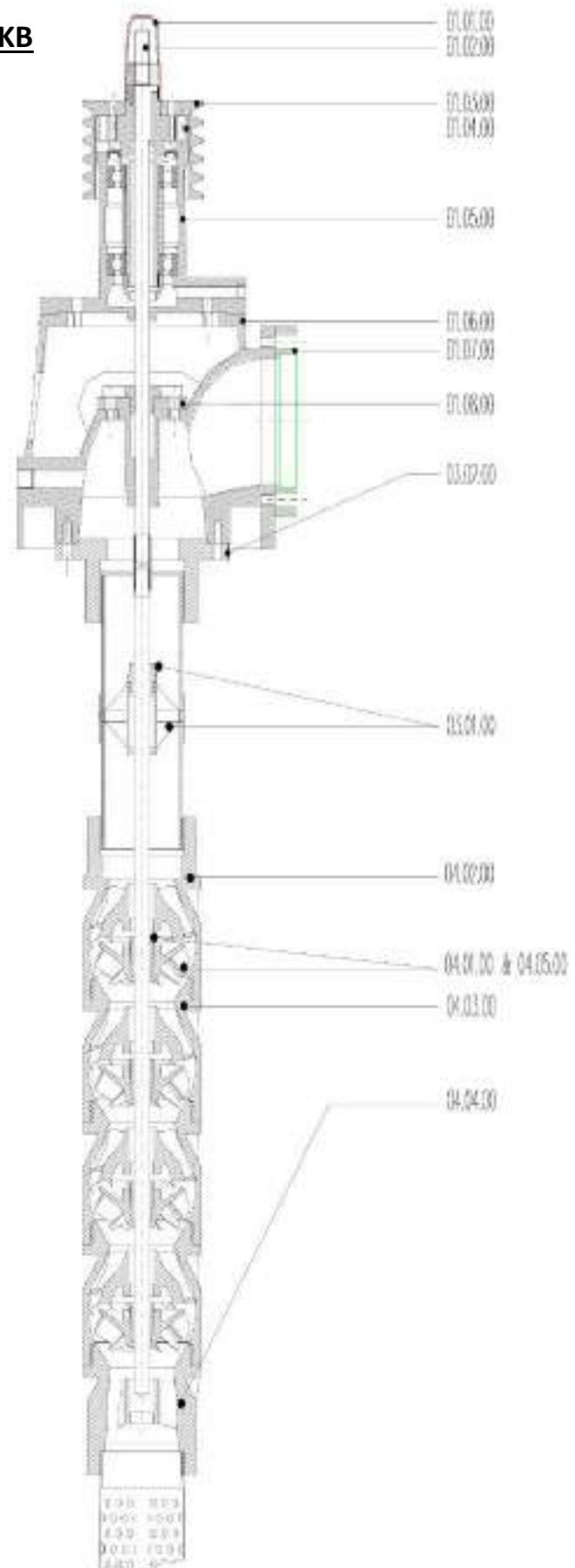
Pump Type	6-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	8.1 kg / 8.76 kg
Bowl Length	143 mm
Outer Bowl Diameter	144 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	0.930 kg / 0.840 kg
Inner Diameter of Impeller	123 mm
Outer Diameter of Impeller	167 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9" - SEB 10"
Input Tube Diameter	3" - 4"
Output Tube Diameter	3" - 4"

Technical Standards of Shaft and Tubes

Tube Diameter	3" - 4"
Tube thickness	6 - 6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	3/4" - 7/8" - 1"
Shaft Connection	Thread Coupling



6 - HKB

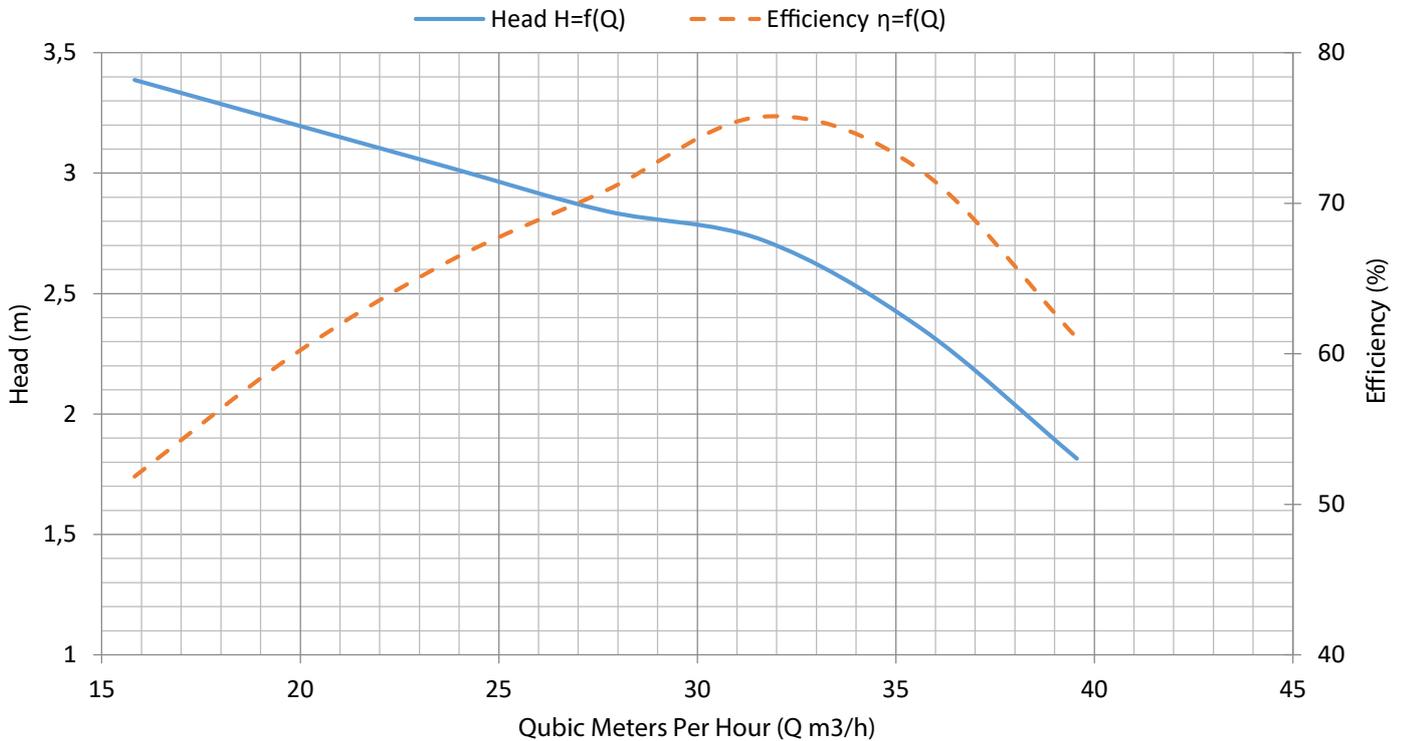


One bowl/stage
Performance Curves

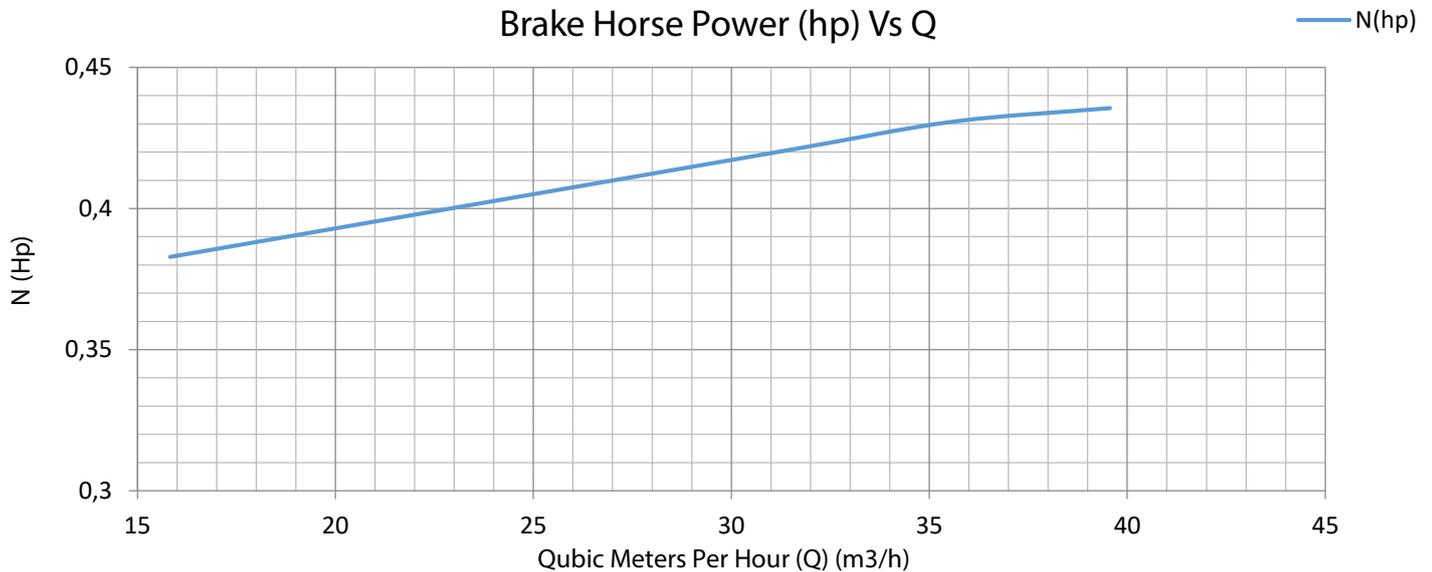
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 6HKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	6-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	76 mm
Outer diameter	124 mm
Number of Blades	7
Material	Bronze / INOX
Weight	0.930 kg / 0.834 kg

Bowl Parameters

Model	6-HKB
Outer diameter	144 mm
Basic Height	143 mm
Standard Shaft Size	1 "
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	8.1 kg / 8.7 kg

6 - HKB

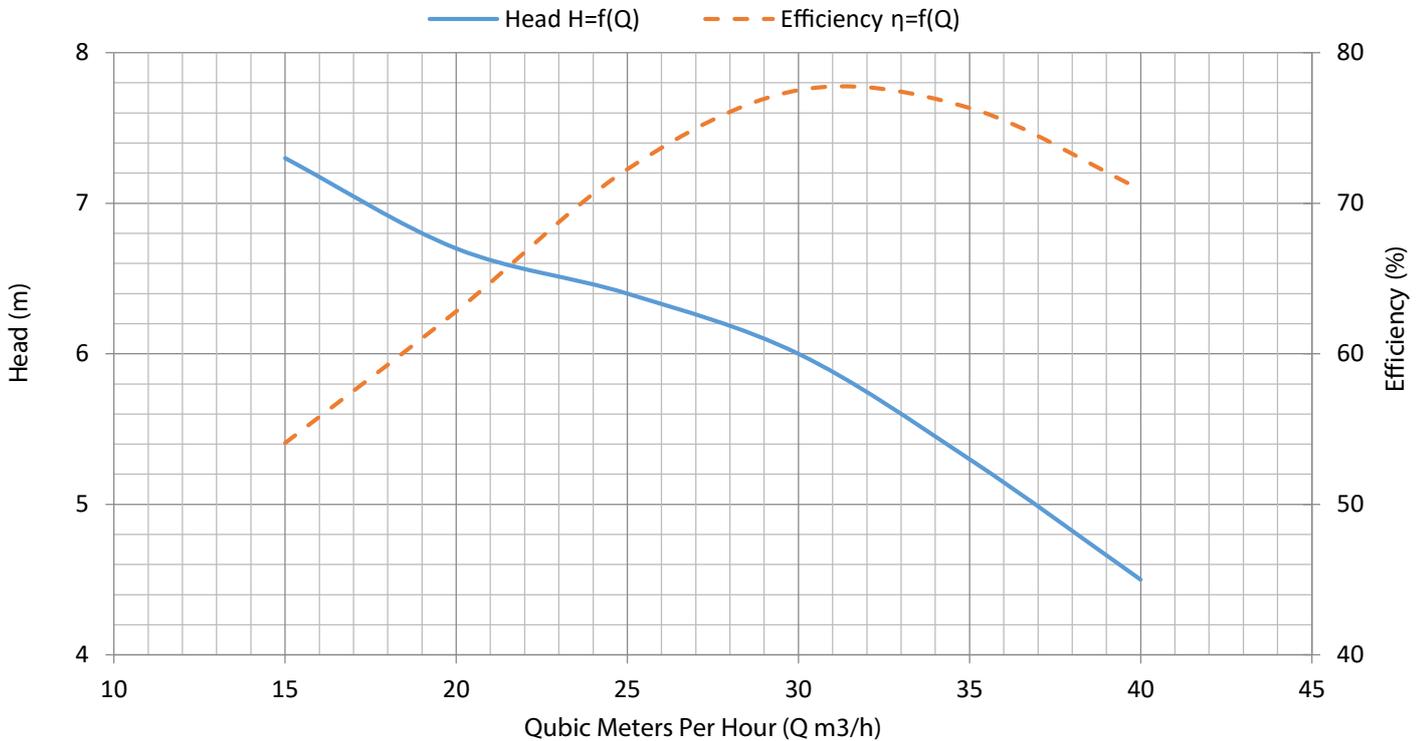


One bowl/stage
Performance Curves

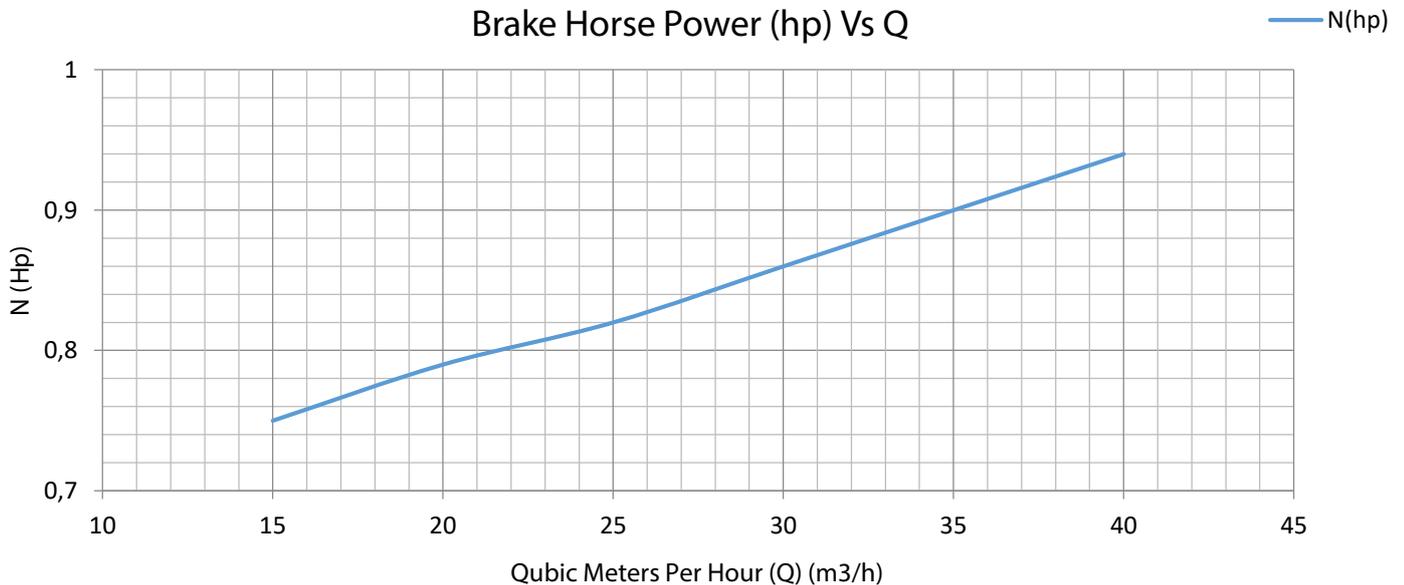
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 6HKB (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	6-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	76 mm
Outer diameter	124 mm
Number of Blades	7
Material	Bronze / INOX
Weight	0.930 kg / 0.834 kg

Bowl Parameters

Model	6-HKB
Outer diameter	144 mm
Basic Height	143 mm
Standard Shaft Size	1 "
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	8.1 kg / 8.7 kg

7 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 7-HKB

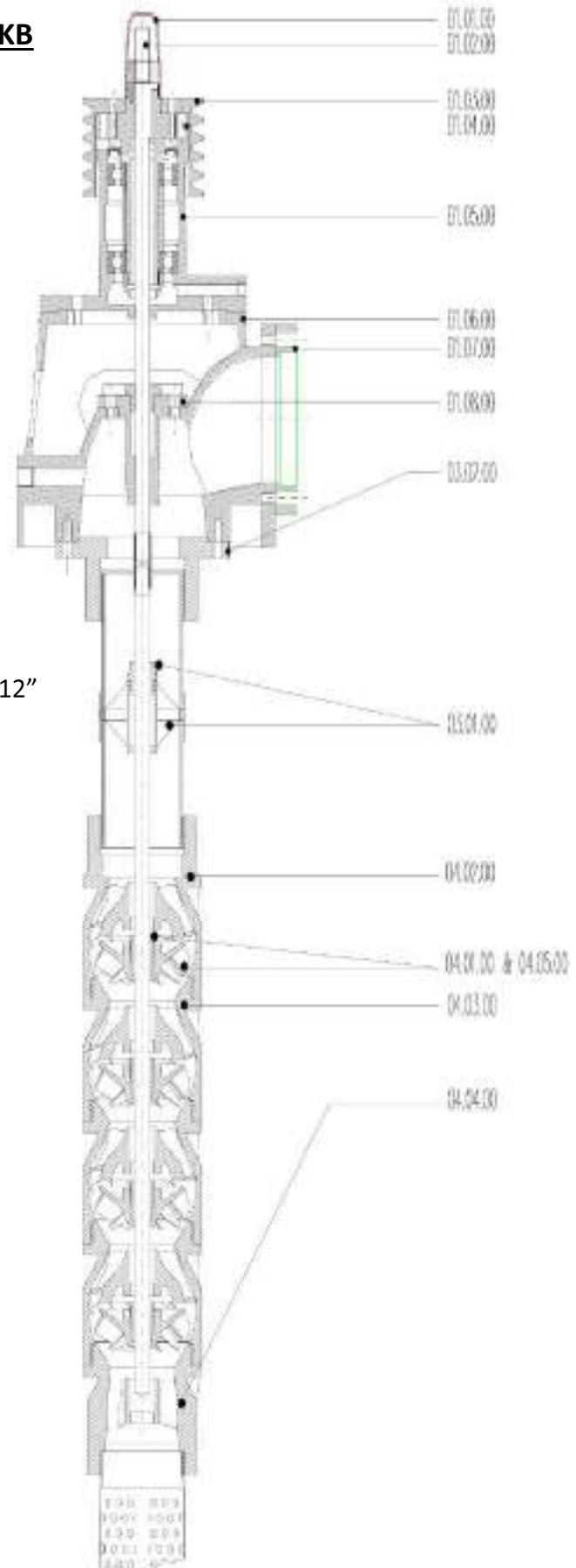
Pump Type	7-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	10.15 kg / 10.95 kg
Bowl Length	146 mm
Outer Bowl Diameter	170 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	1.200 kg / 1.080 kg
Inner Diameter of Impeller	80 mm
Outer Diameter of Impeller	134 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9" - SEB 10" - SEB 12"
Input Tube Diameter	3" - 4"
Output Tube Diameter	3" - 4"

Technical Standards of Shaft and Tubes

Tube Diameter	3" - 4"
Tube thickness	6 - 6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	7/8" - 1" - 1 3/16"
Shaft Connection	Thread Coupling



7 - HKB

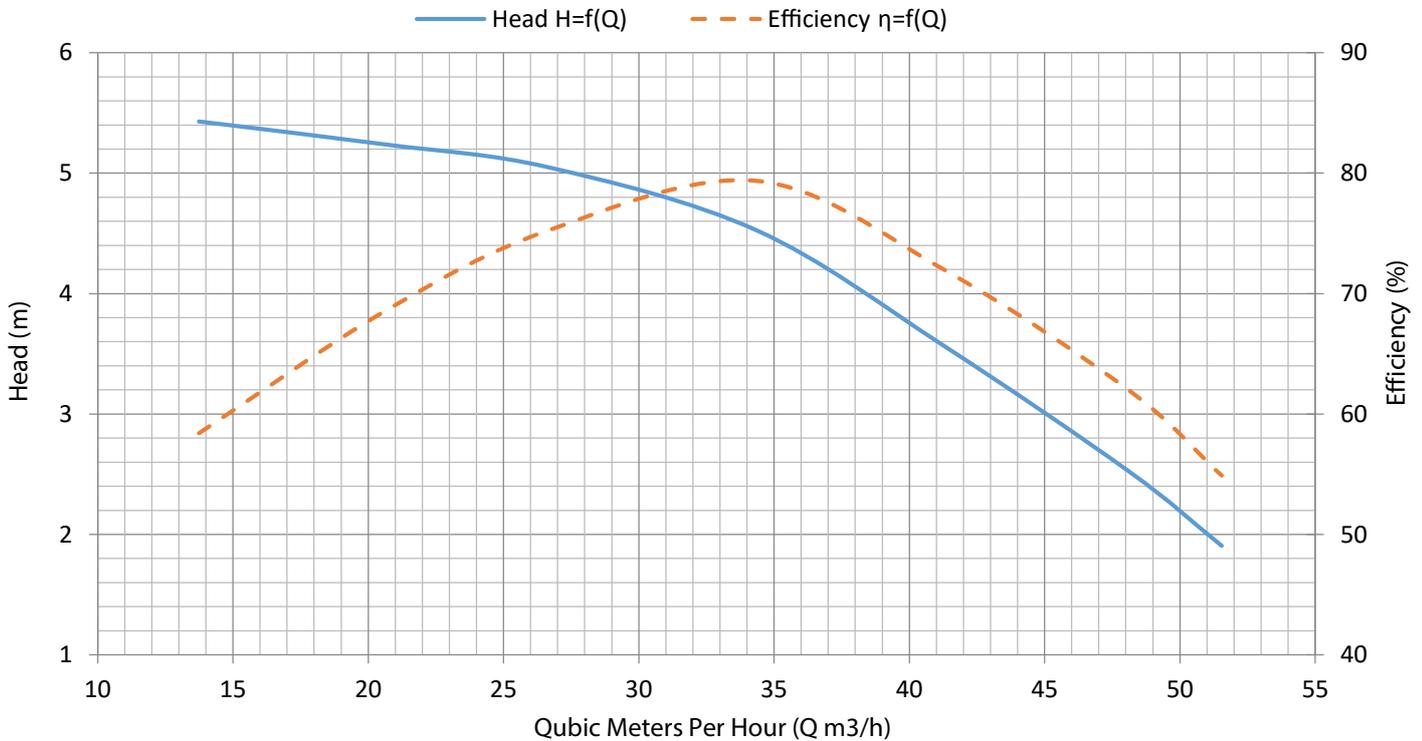


One bowl/stage
Performance Curves

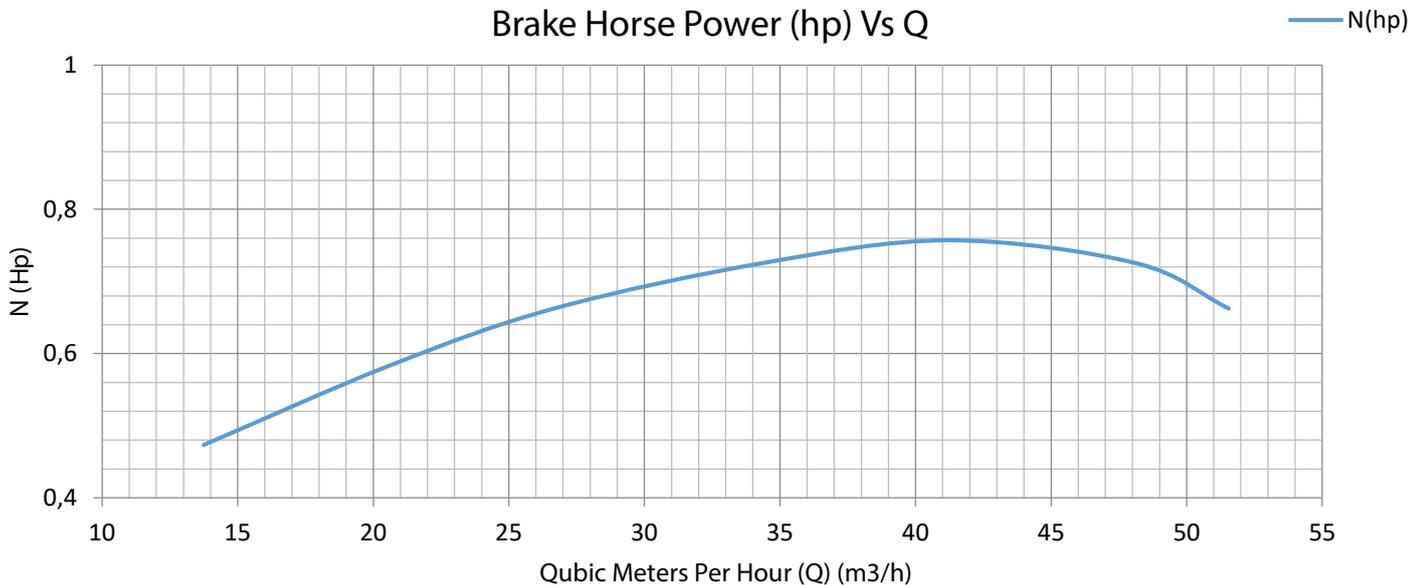
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 7HKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	7-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	80 mm
Outer diameter	134 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.2 kg / 1.08 kg

Bowl Parameters

Model	7-HKB
Outer diameter	170 mm
Basic Height	146 mm
Standard Shaft Size	1 " - 13/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	10.15 kg / 11.0 kg

7 - HKB

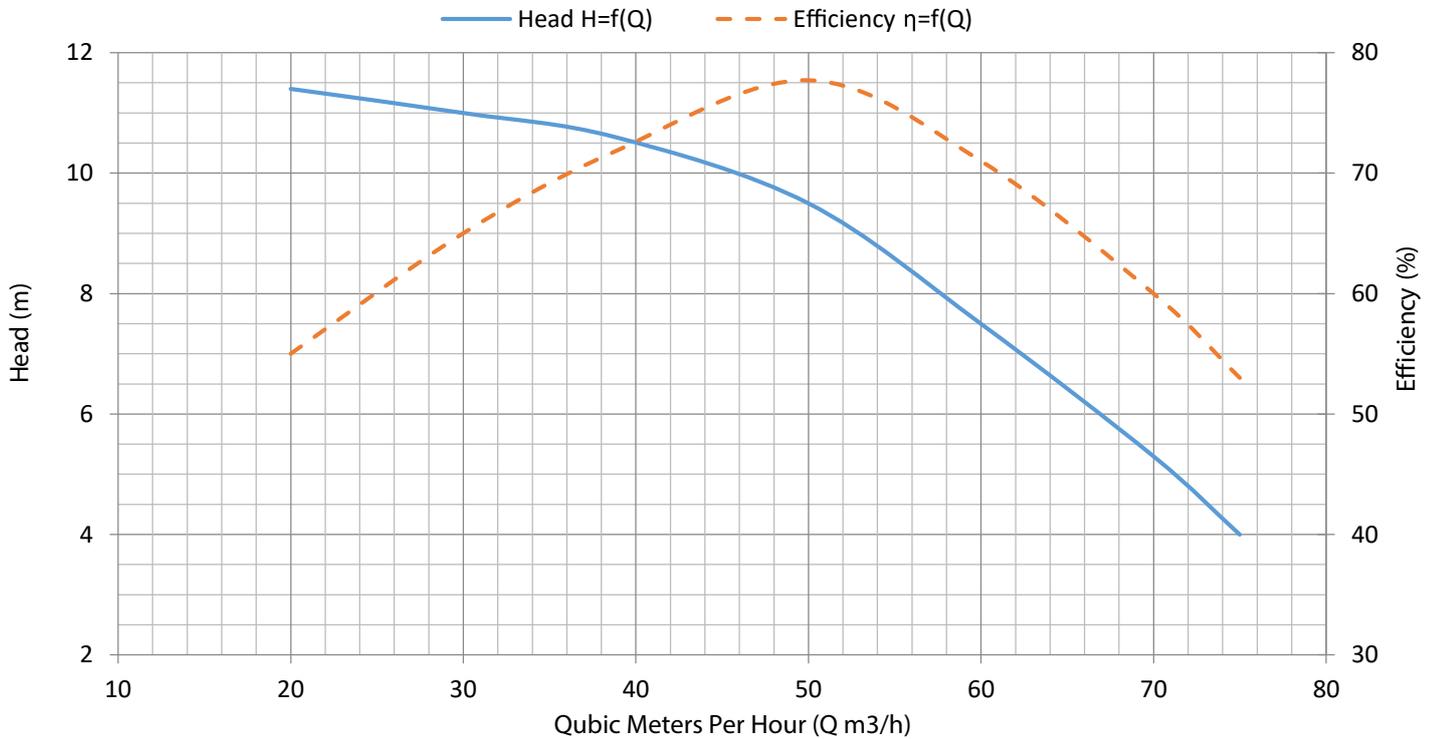


One bowl/stage
Performance Curves

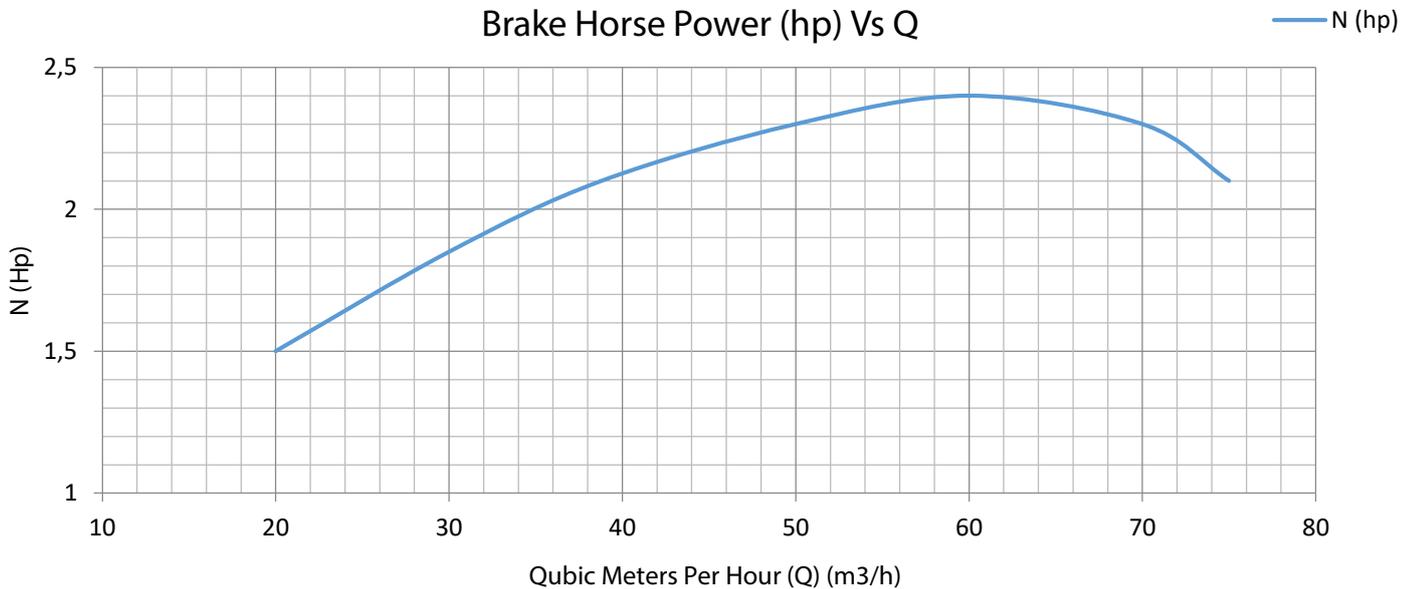
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 7HKB (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	7-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	80 mm
Outer diameter	134 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.2 kg / 1.08 kg

Bowl Parameters

Model	7-HKB
Outer diameter	170 mm
Basic Height	146 mm
Standard Shaft Size	1 " - 13/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	10.15 kg / 11.0 kg

7 - HKBA

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 7-HKB

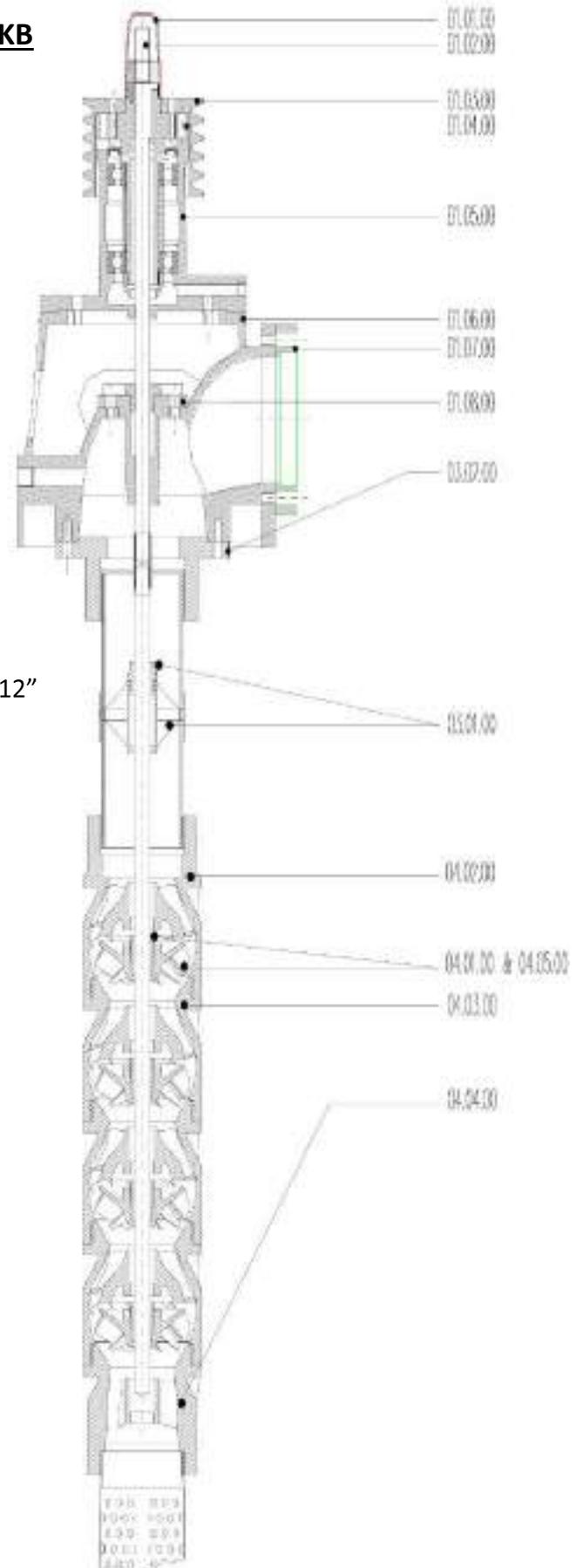
Pump Type	7-HKBa
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	10.15 kg / 10.95 kg
Bowl Length	146 mm
Outer Bowl Diameter	170 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	1.100 kg / 0.980 kg
Inner Diameter of Impeller	78 mm
Outer Diameter of Impeller	138 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9" - SEB 10" - SEB 12"
Input Tube Diameter	3" - 4"
Output Tube Diameter	3" - 4"

Technical Standards of Shaft and Tubes

Tube Diameter	3" - 4"
Tube thickness	6 - 6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	7/8" - 1" - 1 3/16"
Shaft Connection	Thread Coupling



7 - HKBa

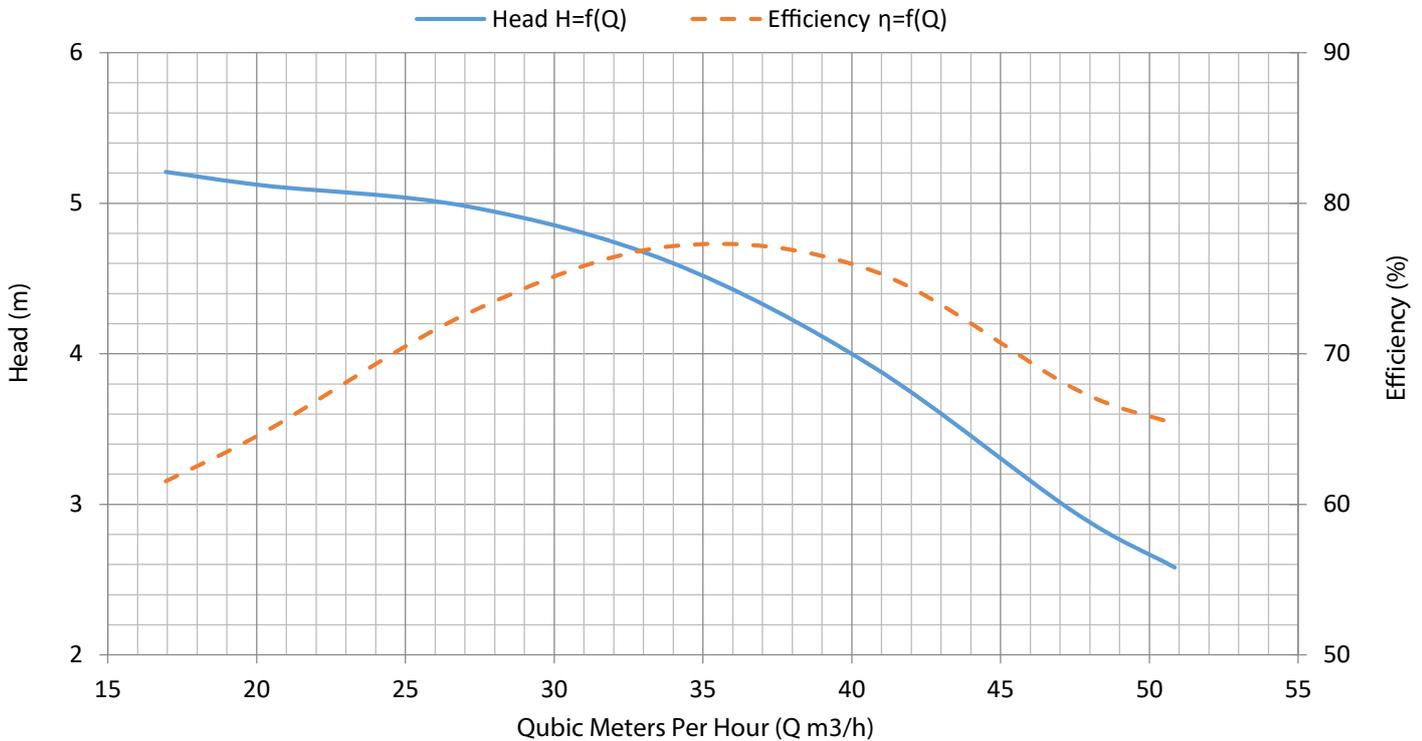


One bowl/stage
Performance Curves

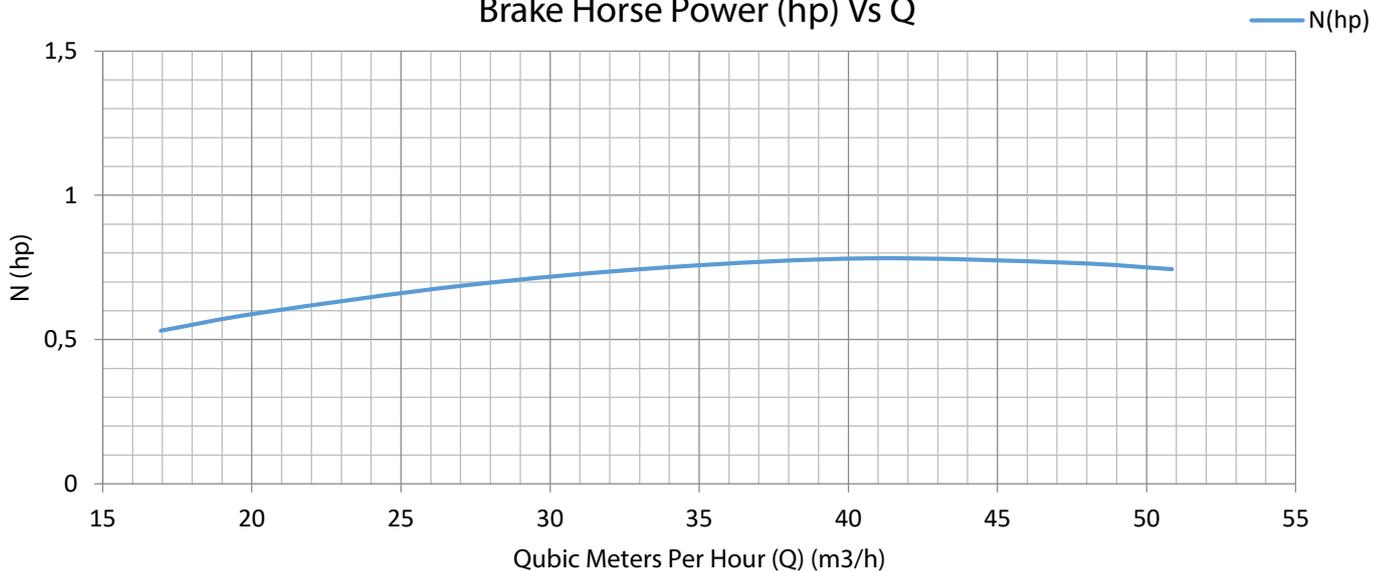
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 7HKBa (1490RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	7-HKBa-F
Type	Semi-Closed with Lock Collet
Inner Diameter	78 mm
Outer diameter	138 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.4 kg / 1.25 kg

Bowl Parameters

Model	7-HKB
Outer diameter	170 mm
Basic Height	146 mm
Standard Shaft Size	1 " - 13/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	10.15 kg / 11.0 kg

7 - HKBa

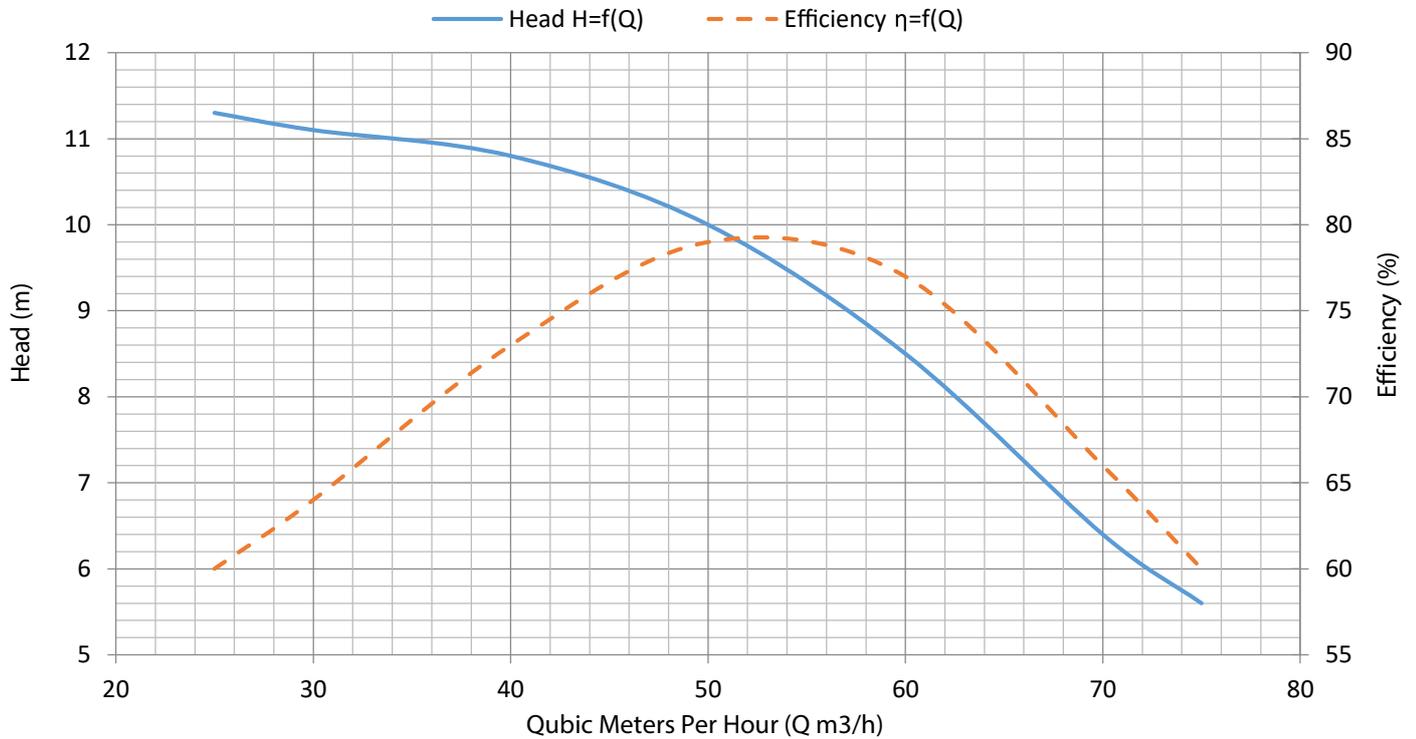


One bowl/stage
Performance Curves

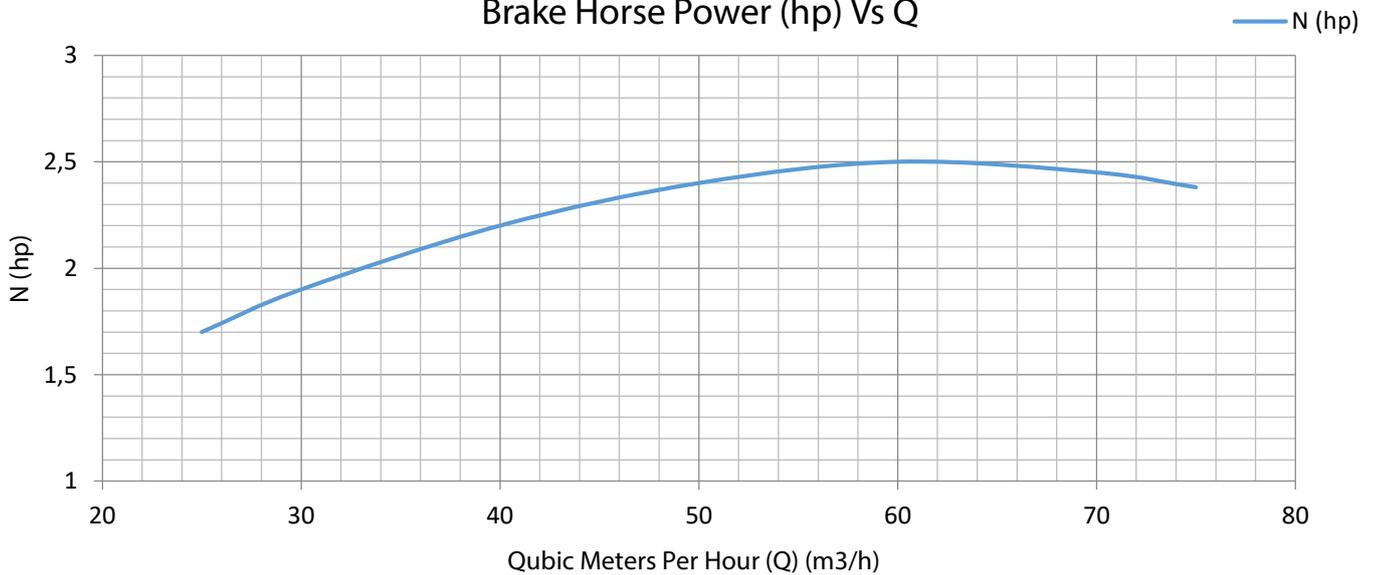
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 7HKBa (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	7-HKBa-F
Type	Semi-Closed with Lock Collet
Inner Diameter	78 mm
Outer diameter	138 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.4 kg / 1.25 kg

Bowl Parameters

Model	7-HKB
Outer diameter	170 mm
Basic Height	146 mm
Standard Shaft Size	1 " - 13/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	10.15 kg / 11.0 kg

8 - HHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 8-HHKB

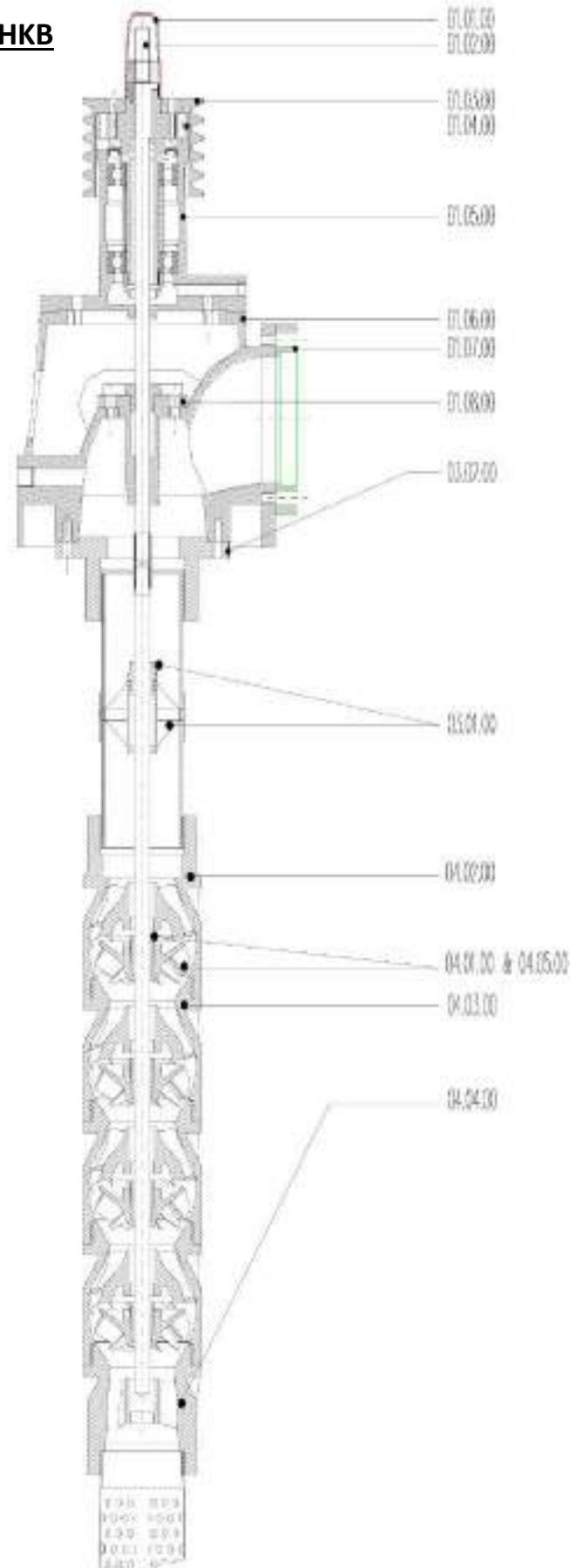
Pump Type	8-HHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	14.9 kg / 16.12 kg
Bowl Length	197 mm
Outer Bowl Diameter	193 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	2.100 kg / 1.880 kg
Inner Diameter of Impeller	120 mm
Outer Diameter of Impeller	162 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 12" – SEB 16.5"
Input Tube Diameter	5" – 6"
Output Tube Diameter	5" – 6"

Technical Standards of Shaft and Tubes

Tube Diameter	5" – 6"
Tube thickness	6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1" – 1 3/16"
Shaft Connection	Thread Coupling



8 - HHKB

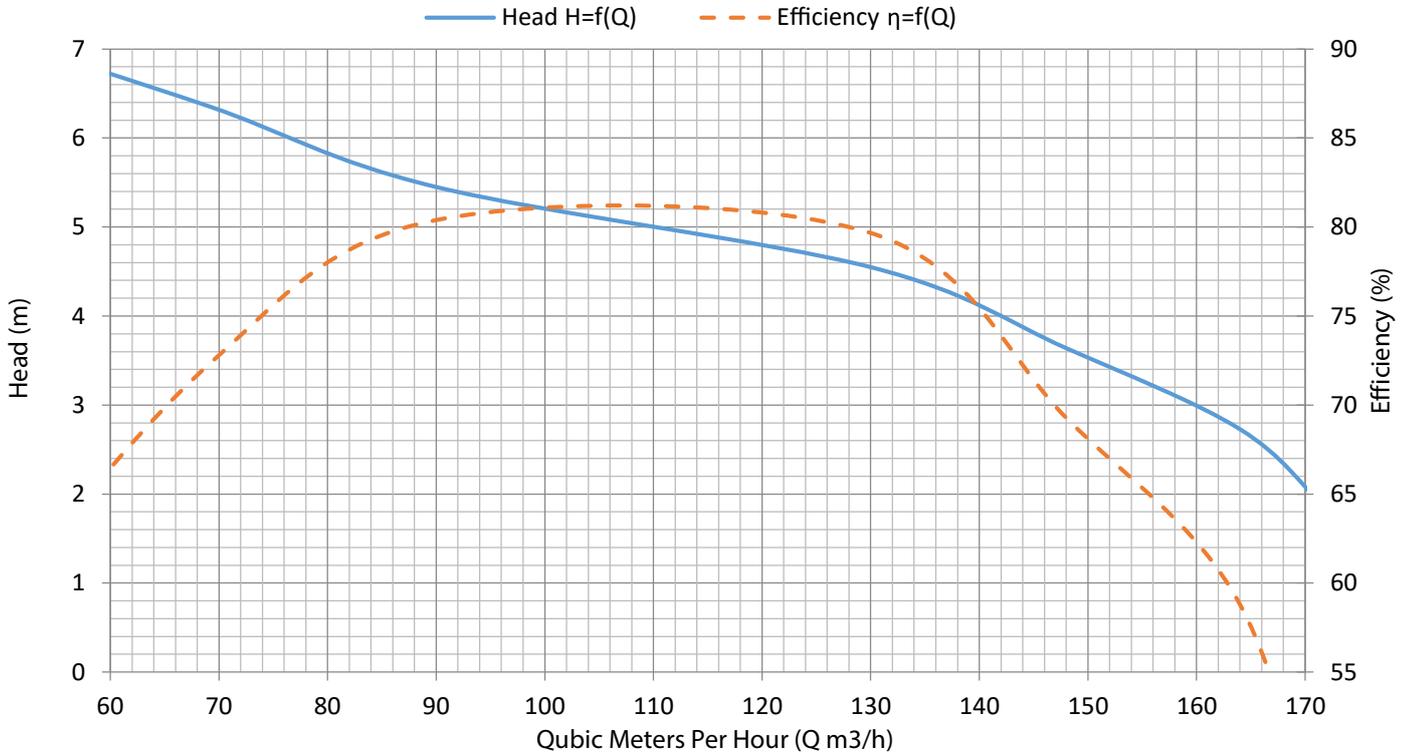


One bowl/stage
Performance Curves

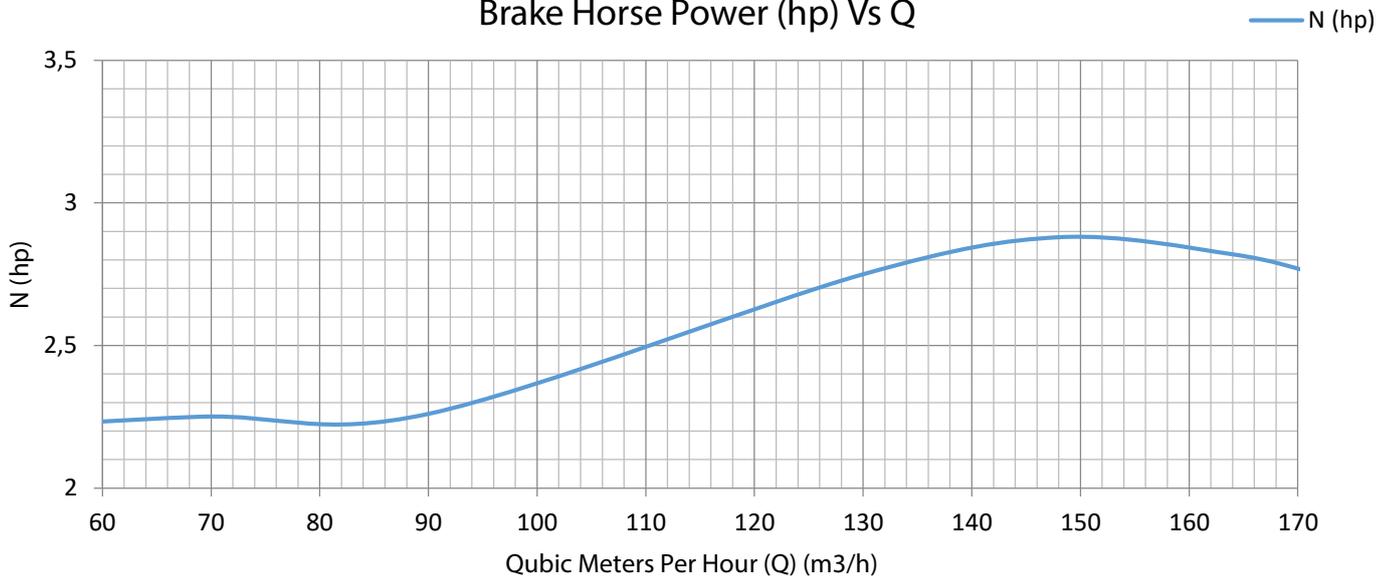
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 8-HHKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	8-HHKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	110 mm
Outer diameter	160 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.90 kg / 1.70 kg

Bowl Parameters

Model	8-HKB
Outer diameter	189 mm
Basic Height	151 mm
Standard Shaft Size	1 3/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	14.1 kg / 15.25 kg

8 - HHKB

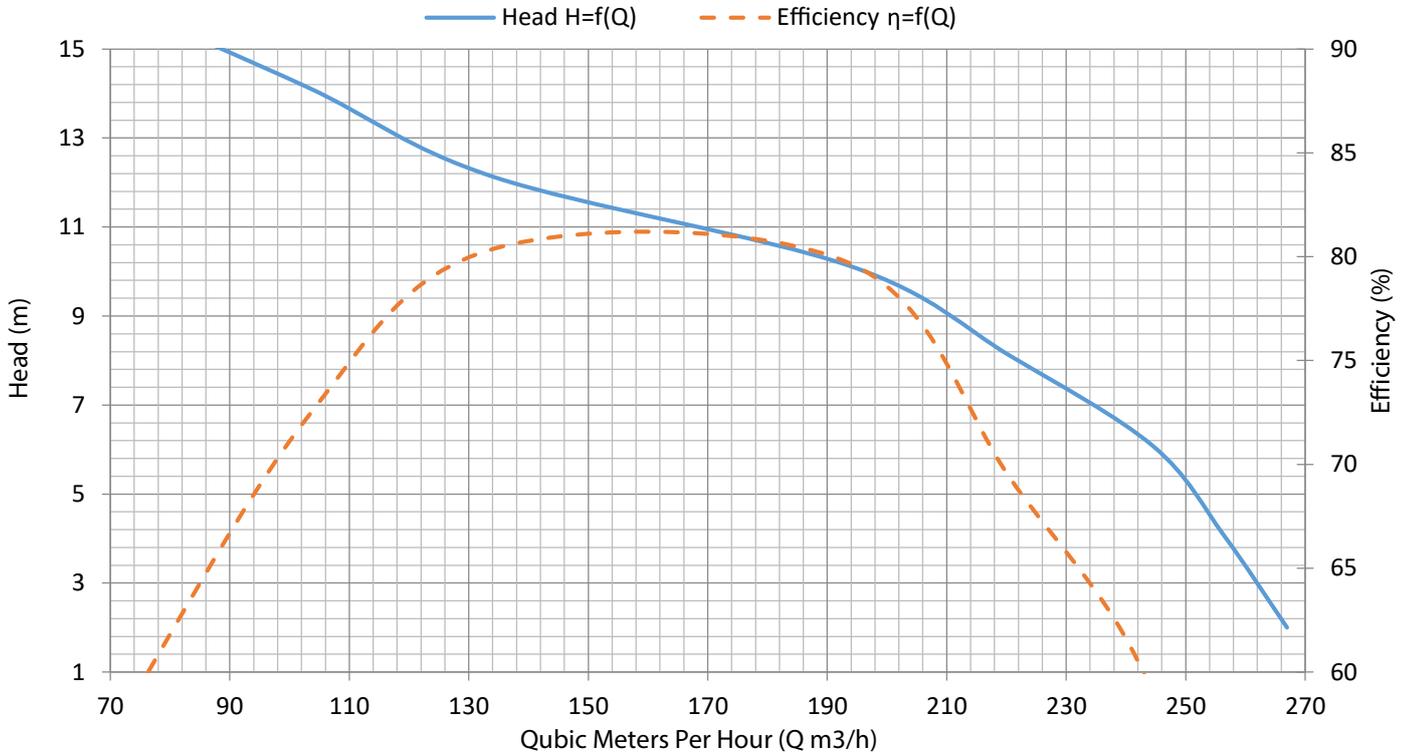


One bowl/stage
Performance Curves

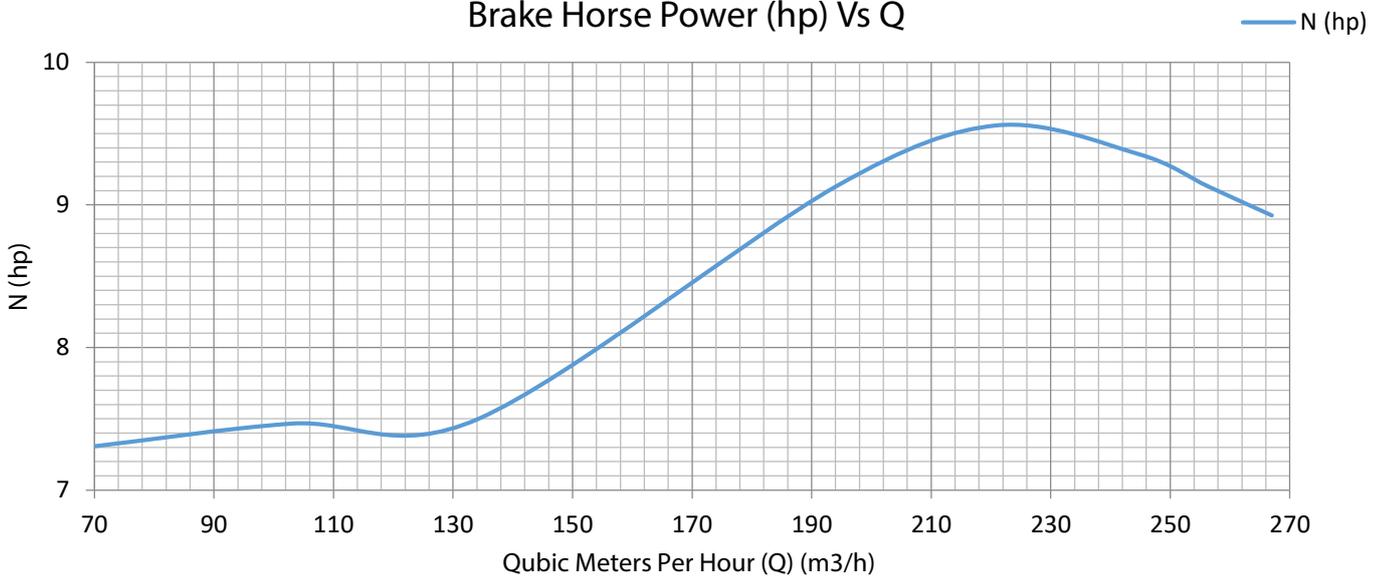
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 8-HHKB (2200 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	8-HHKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	110 mm
Outer diameter	160 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.90 kg / 1.70 kg

Bowl Parameters

Model	8-HKB
Outer diameter	189 mm
Basic Height	151 mm
Standard Shaft Size	1 3/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	14.1 kg / 15.25 kg

8 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 8-HKB

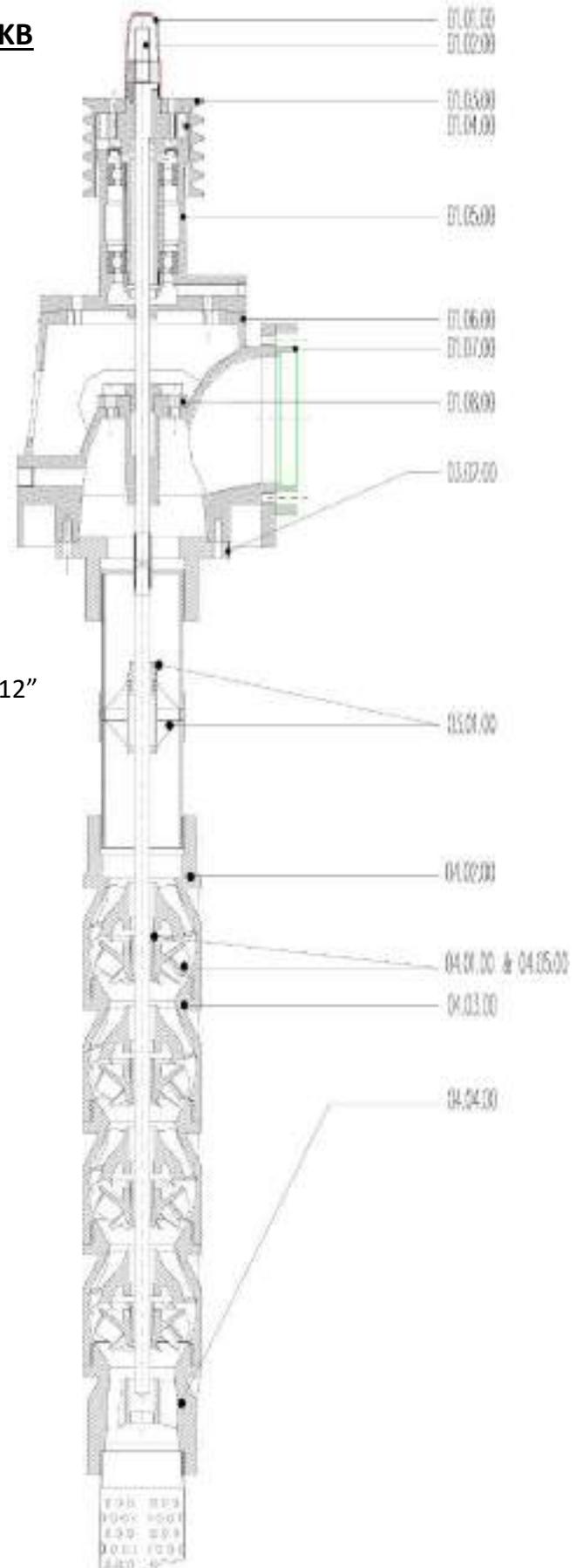
Pump Type	8-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	12.1 kg / 13.1 kg
Bowl Length	151 mm
Outer Bowl Diameter	189 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	1.700 kg / 1.530 kg
Inner Diameter of Impeller	110 mm
Outer Diameter of Impeller	160 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 9" - SEB 10" - SEB 12"
Input Tube Diameter	4" - 5"
Output Tube Diameter	4" - 5"

Technical Standards of Shaft and Tubes

Tube Diameter	4" - 5"
Tube thickness	6.3 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1" - 1 15/16"
Shaft Connection	Thread Coupling



8 - HKB

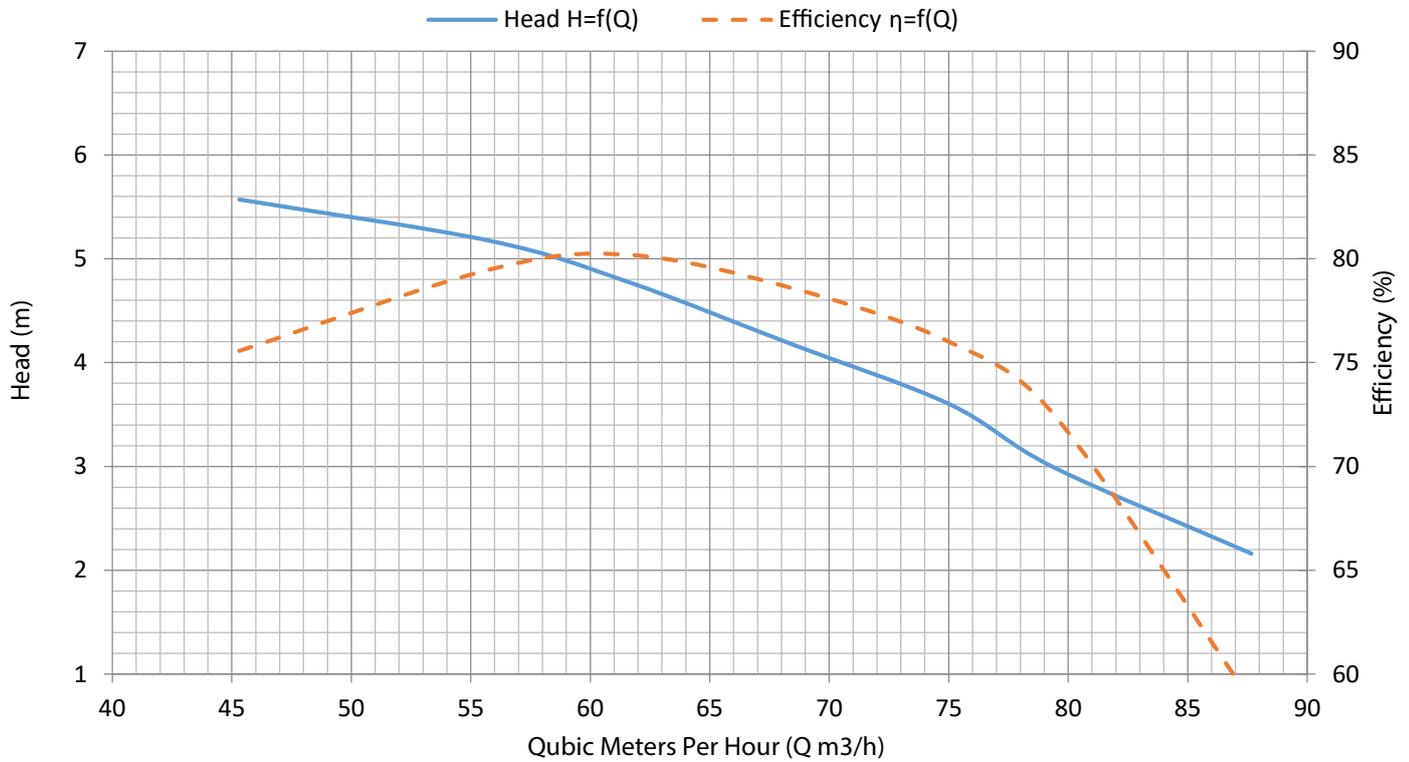


One bowl/stage
Performance Curves

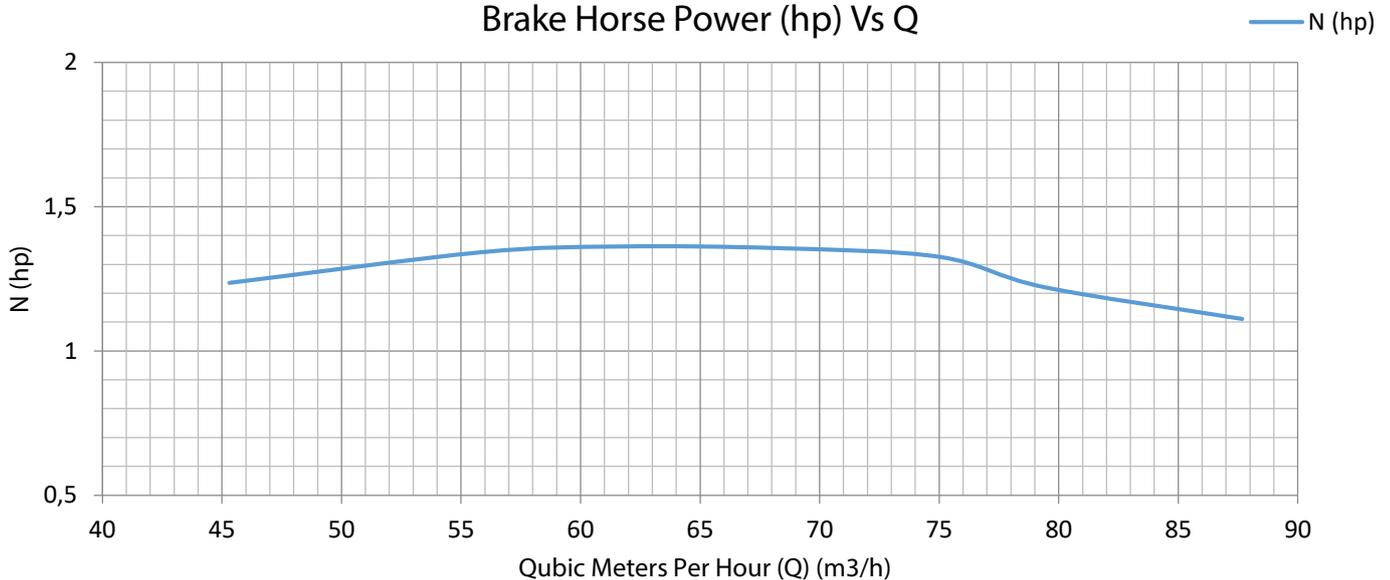
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 8HKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	8-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	110 mm
Outer diameter	160 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.90 kg / 1.70 kg

Bowl Parameters

Model	8-HKB
Outer diameter	189 mm
Basic Height	151 mm
Standard Shaft Size	1 3/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	14.1 kg / 15.25 kg

8 - HKB

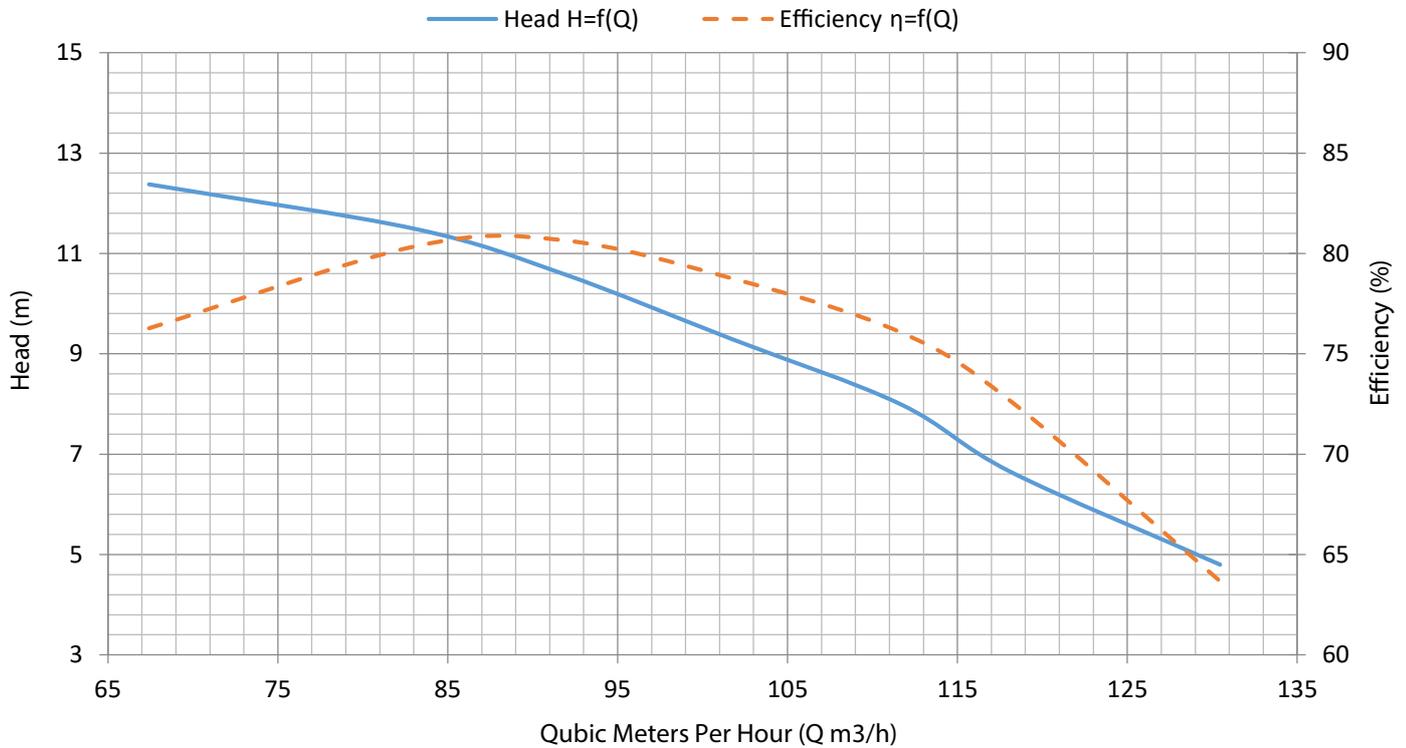


One bowl/stage
Performance Curves

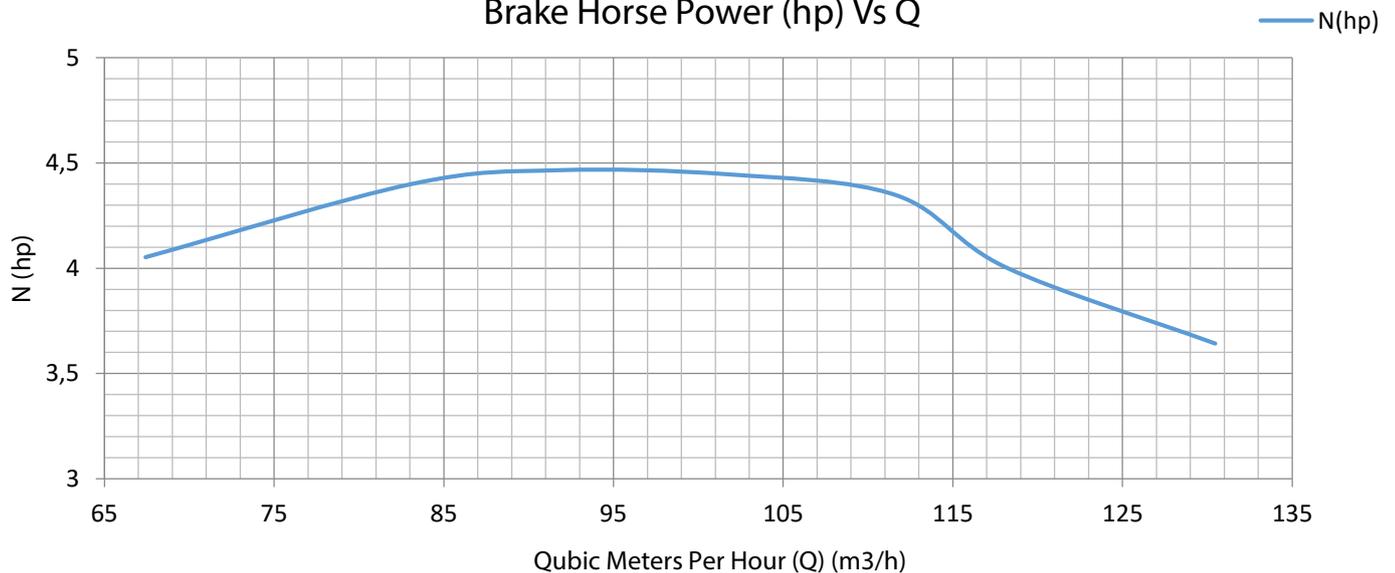
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 8HKB (2200RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	8-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	110 mm
Outer diameter	160 mm
Number of Blades	7
Material	Bronze / INOX
Weight	1.90 kg / 1.70 kg

Bowl Parameters

Model	8-HKB
Outer diameter	189 mm
Basic Height	151 mm
Standard Shaft Size	1 3/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	14.1 kg / 15.3 kg

10 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 10-HKB

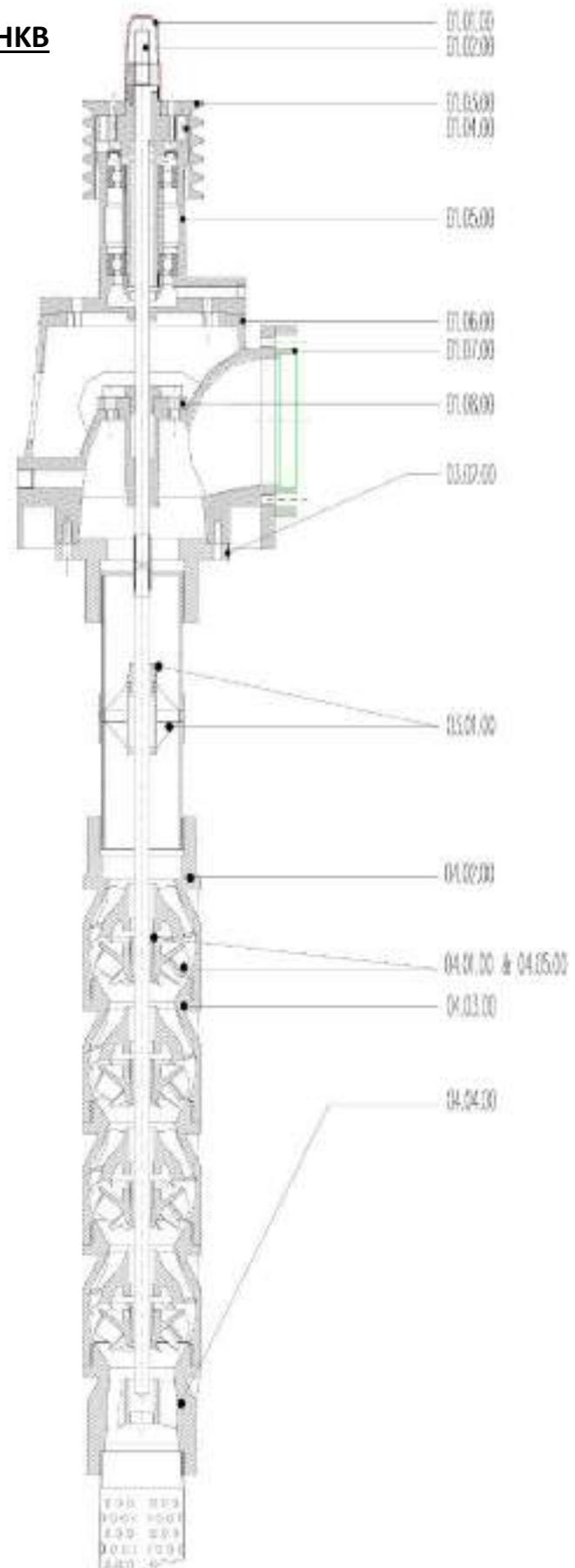
Pump Type	10-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	22.1 kg / 23.9 kg
Bowl Length	182 mm
Outer Bowl Diameter	238 mm
Bowl's Connection	Threaded
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	2.750 kg / 1.460 kg
Inner Diameter of Impeller	142 mm
Outer Diameter of Impeller	193 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 16.5"
Input Tube Diameter	6"
Output Tube Diameter	6"

Technical Standards of Shaft and Tubes

Tube Diameter	6"
Tube thickness	7.1 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1 1/2" – 1 15/16"
Shaft Connection	Thread Coupling



10 - HKB

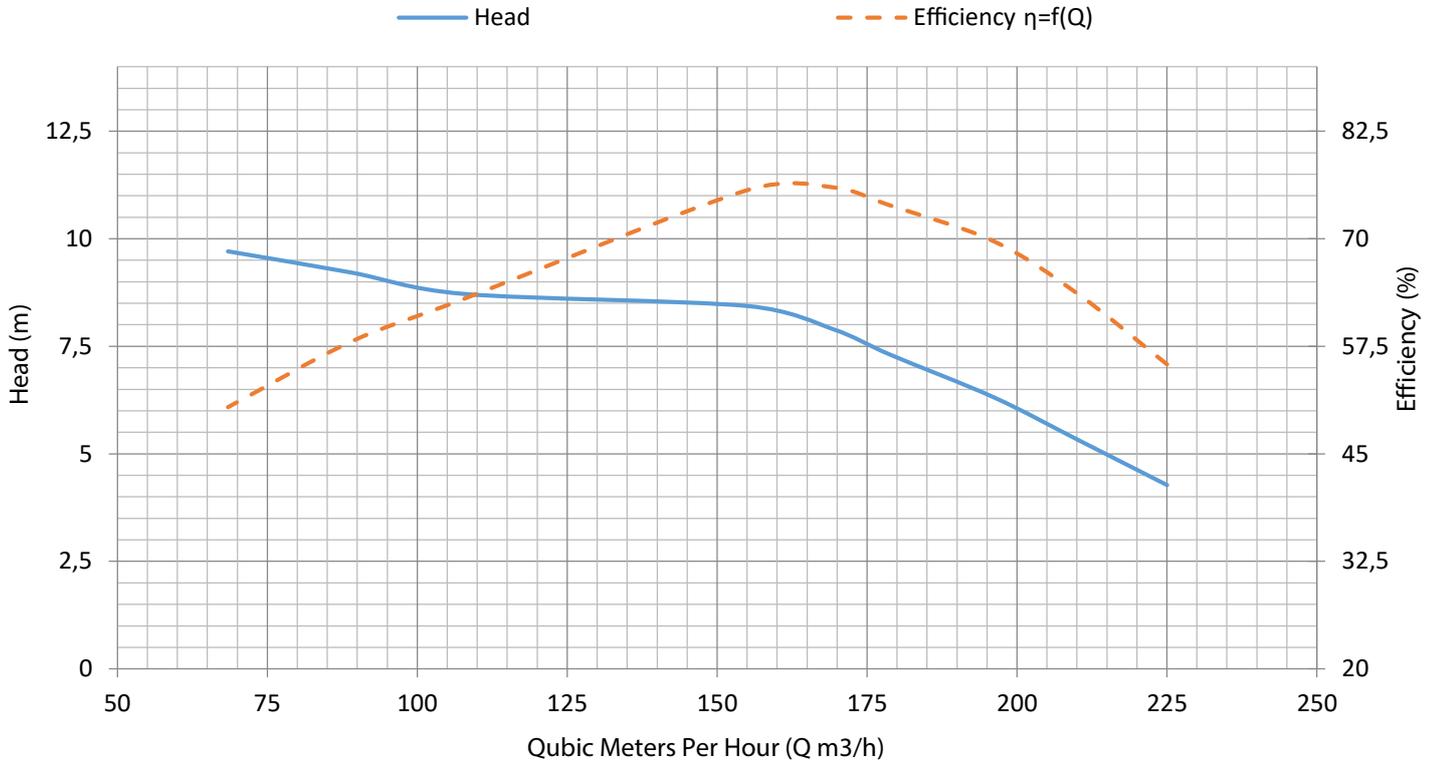


One bowl/stage
Performance Curves

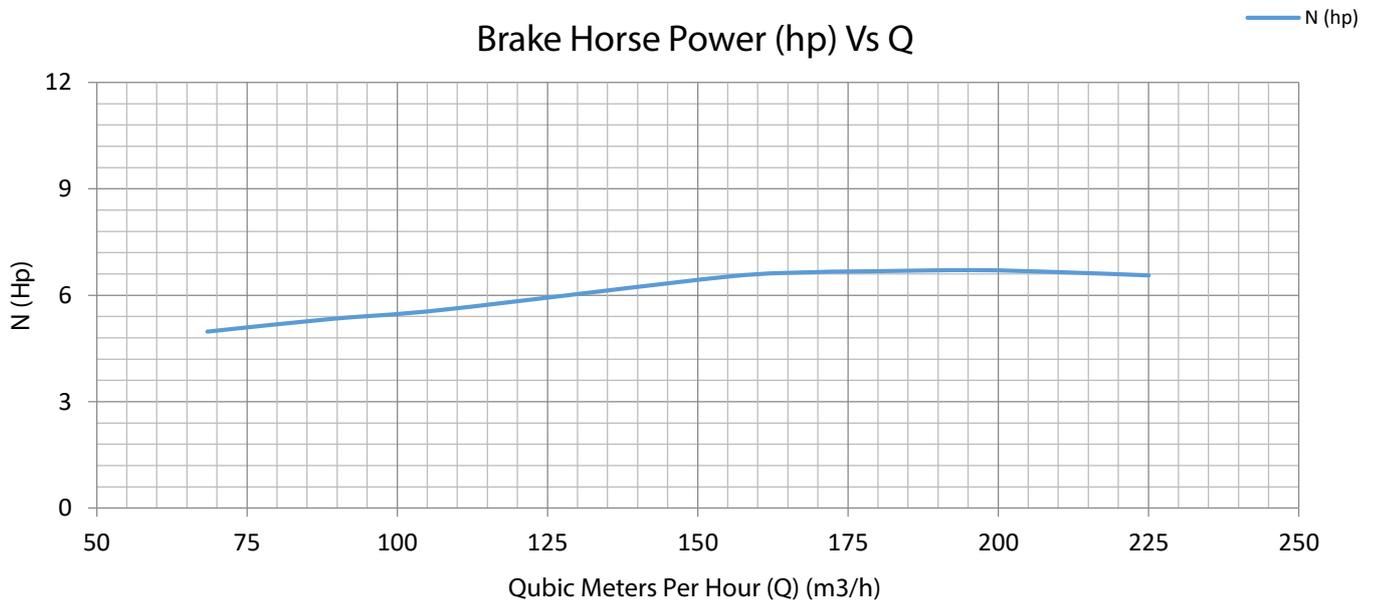
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 10-HKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	10-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	142 mm
Outer diameter	193 mm
Number of Blades	7
Material	Bronze / INOX
Weight	3.10 kg / 2.78 kg

Bowl Parameters

Model	10-HKB
Outer diameter	238 mm
Basic Height	182 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	23.0 kg / 24.9 kg

10 - HKBa

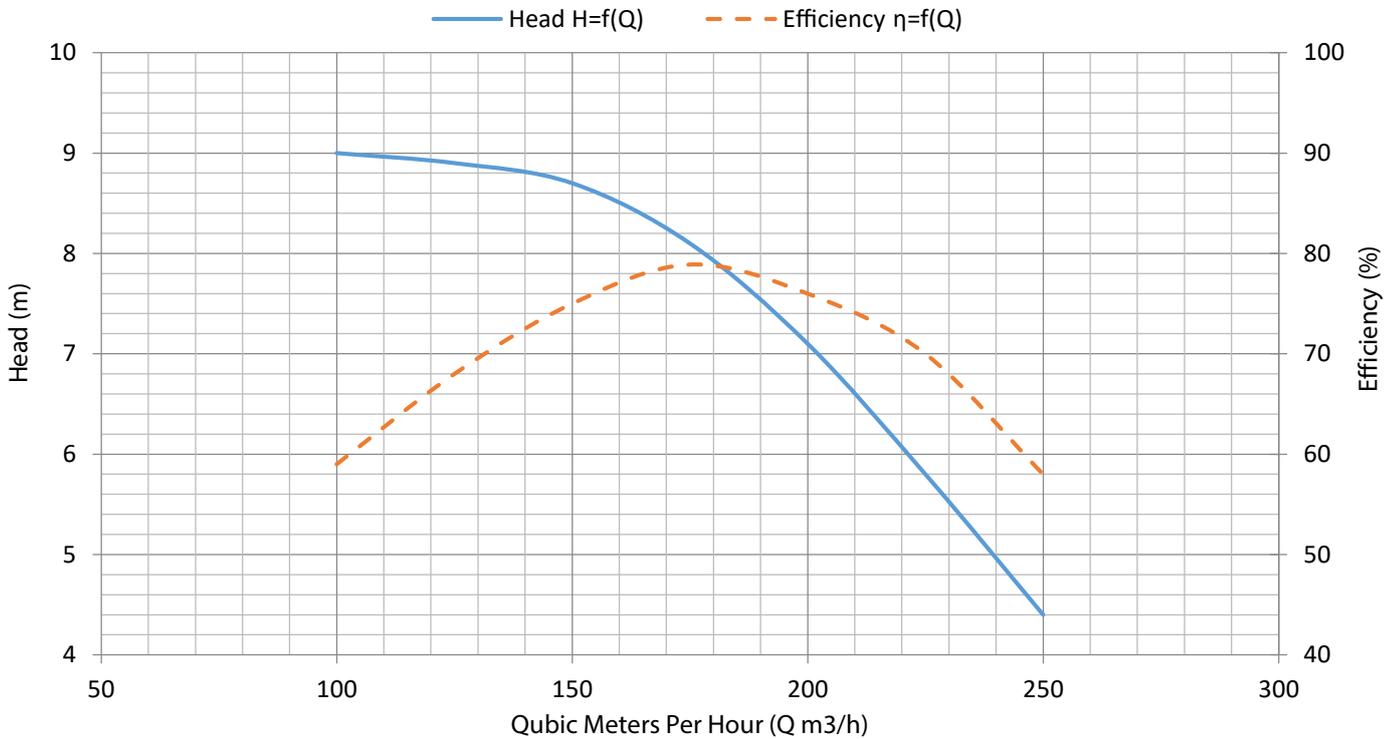


One bowl/stage
Performance Curves

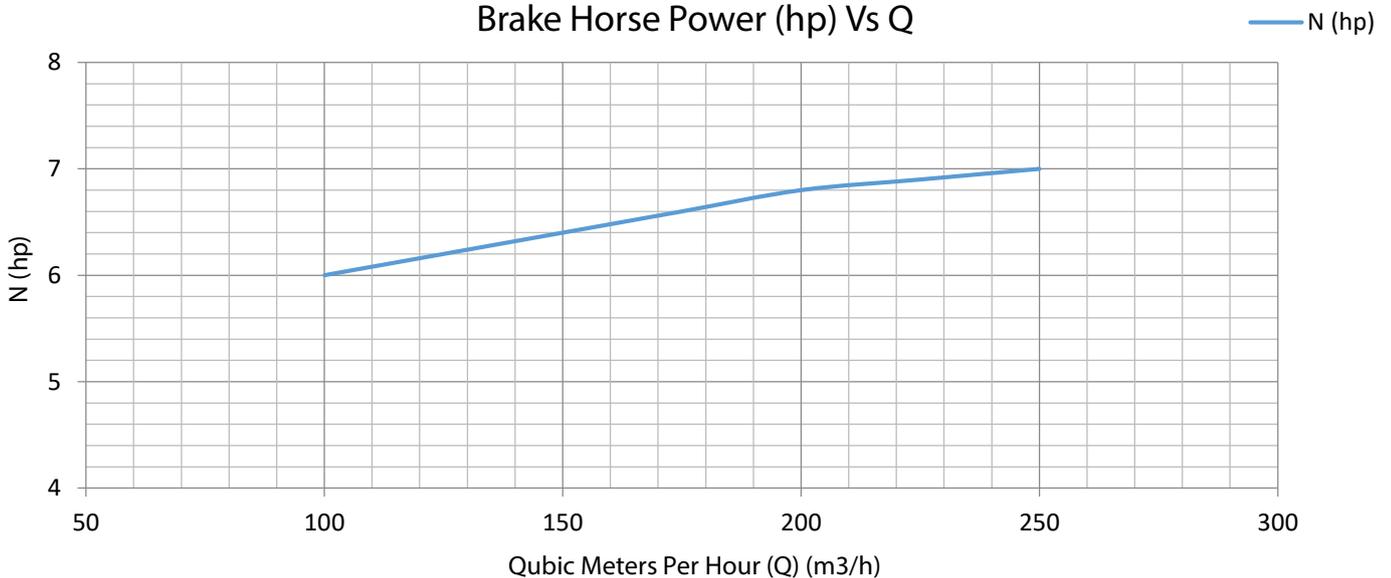
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 10HKBa (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	10-HKBa-F
Type	Semi-Closed with Lock Collet
Inner Diameter	142 mm
Outer diameter	193 mm
Number of Blades	7
Material	Bronze / INOX
Weight	2.90 kg / 2.60 kg

Bowl Parameters

Model	10-HKBa
Outer diameter	238 mm
Basic Height	182 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	23.0 kg / 24.9 kg

10 - HKBa

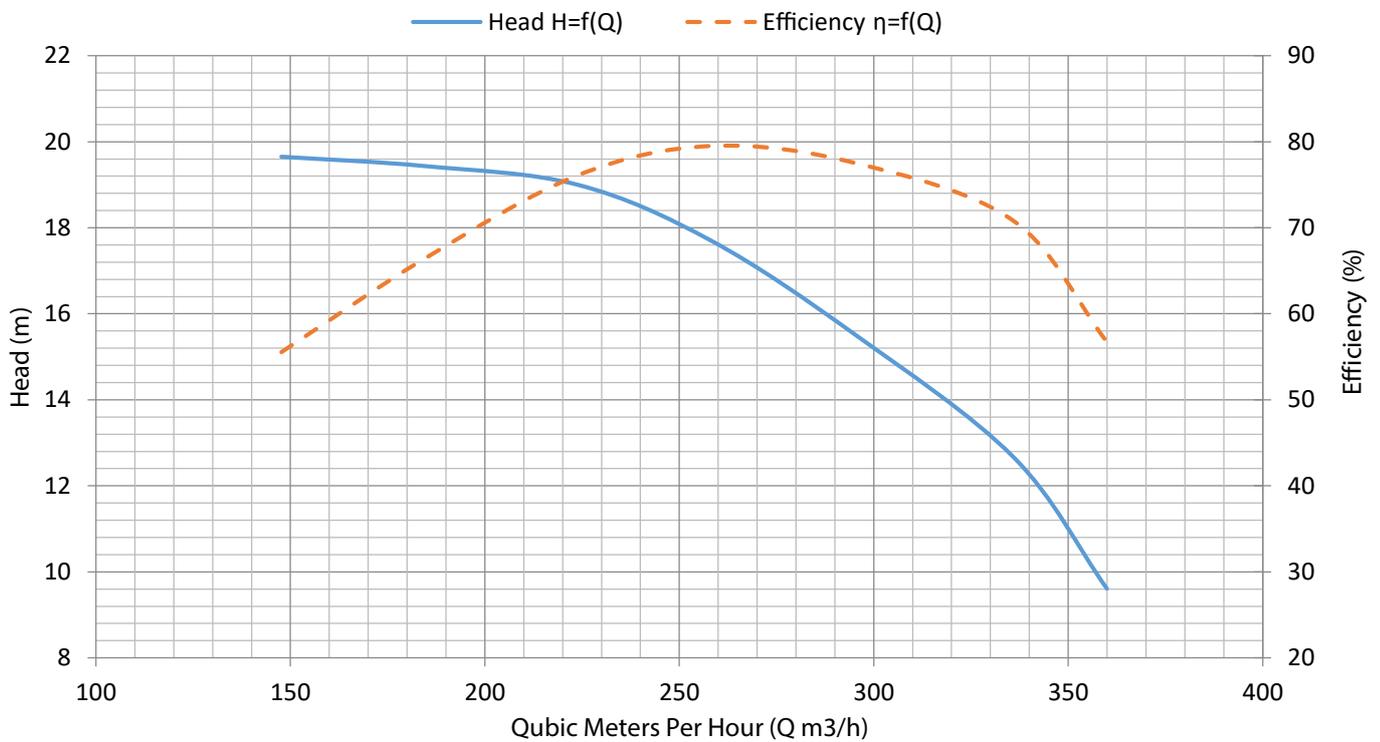


One bowl/stage
Performance Curves

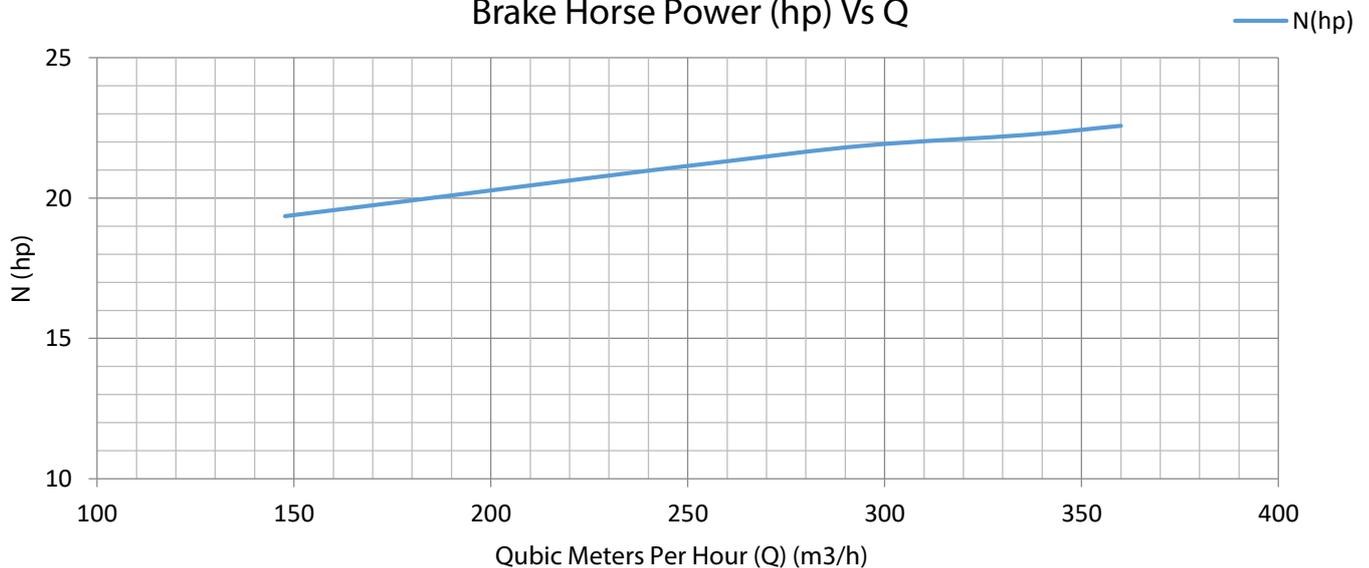
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 10HKBa (2200RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	10-HKBa-F
Type	Semi-Closed with Lock Collet
Inner Diameter	142 mm
Outer diameter	193 mm
Number of Blades	7
Material	Bronze / INOX
Weight	2.90 kg / 2.60 kg

Bowl Parameters

Model	10-HKBa
Outer diameter	238 mm
Basic Height	182 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	23.0 kg / 24.9 kg

10 - KHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 10-KHKB

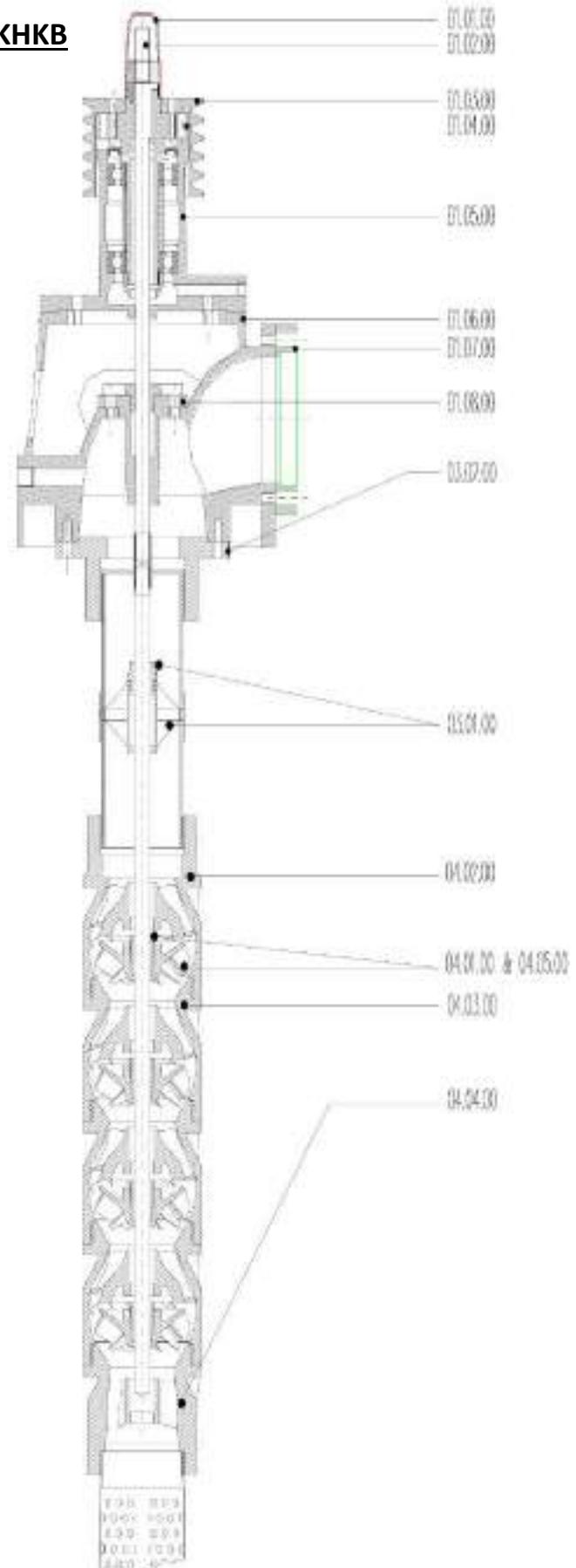
Pump Type	10-KHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	19.5 kg / 21.1 kg
Bowl Length	218 mm
Outer Bowl Diameter	240 mm
Bowl's Connection	INOX (S.S.) Bolts
Impeller Type	Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	4.900 kg / 4.400 kg
Inner Diameter of Impeller	152 mm
Outer Diameter of Impeller	200 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 16.5"
Input Tube Diameter	6" – 8"
Output Tube Diameter	6" – 8"

Technical Standards of Shaft and Tubes

Tube Diameter	6" – 8"
Tube thickness	7.1 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1 1/2" – 1 11/16"
Shaft Connection	Thread Coupling



10 - KHKB

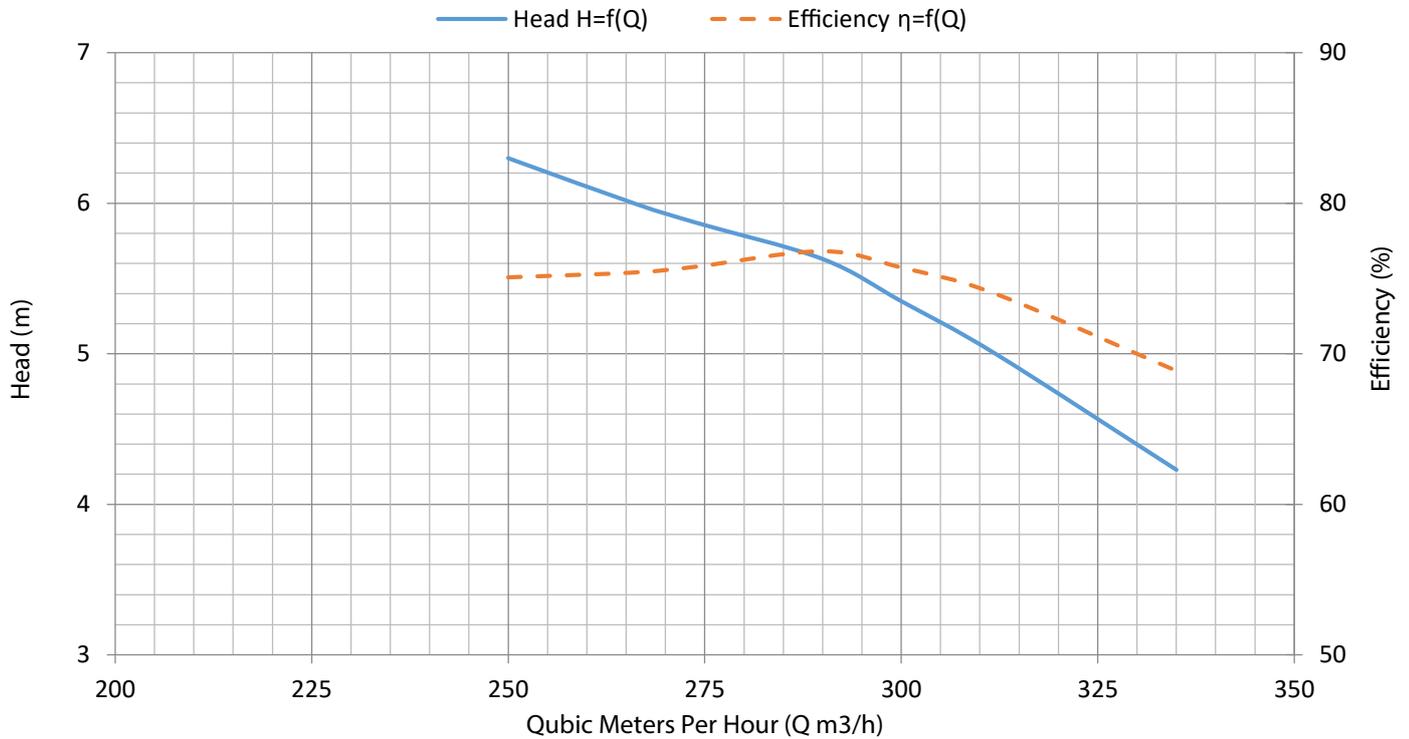


One bowl/stage
Performance Curves

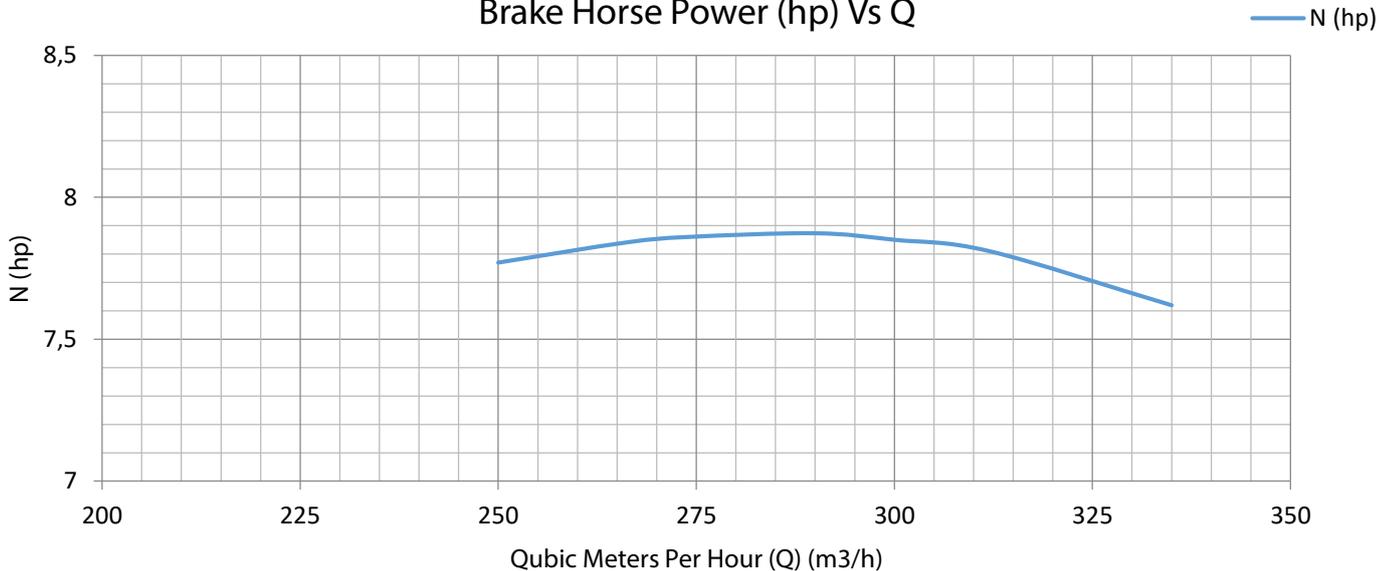
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 10KHKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	10-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	164 mm
Outer diameter	196 - 149 mm
Number of Blades	7
Material	Bronze / INOX
Weight	5.4 kg / 4.8 kg

Bowl Parameters

Model	10-KHKB
Outer diameter	240 mm
Basic Height	218 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	23.1 kg / 25.0 kg

10 - KHKB

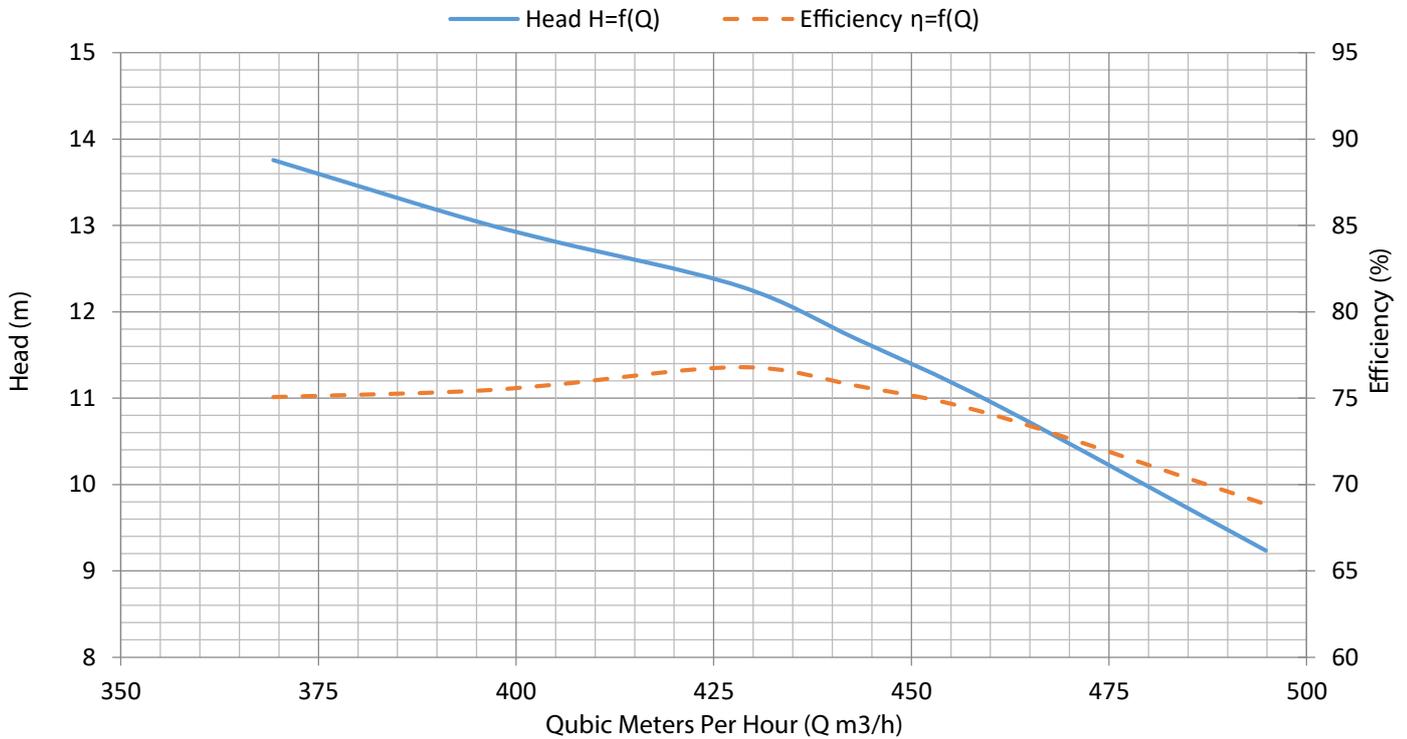


One bowl/stage
Performance Curves

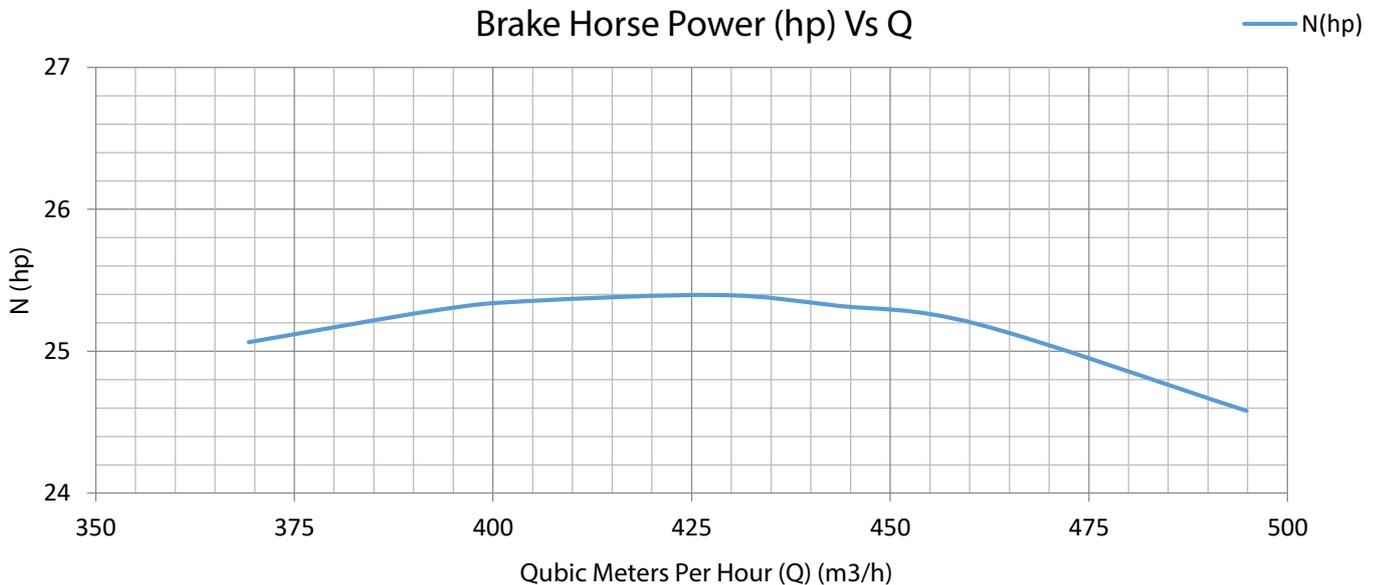
Counterclockwise
at 2200 rpm

Vertical Pump Turbine

Performance Curve For Stage 10KHKB (2200RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	10-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	164 mm
Outer diameter	196-149 mm
Number of Blades	7
Material	Bronze / INOX
Weight	5.4 kg / 4.8 kg

Bowl Parameters

Model	10-KHKB
Outer diameter	240 mm
Basic Height	218 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	23.1 kg / 25.0 kg

12 - HKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 12-HKB

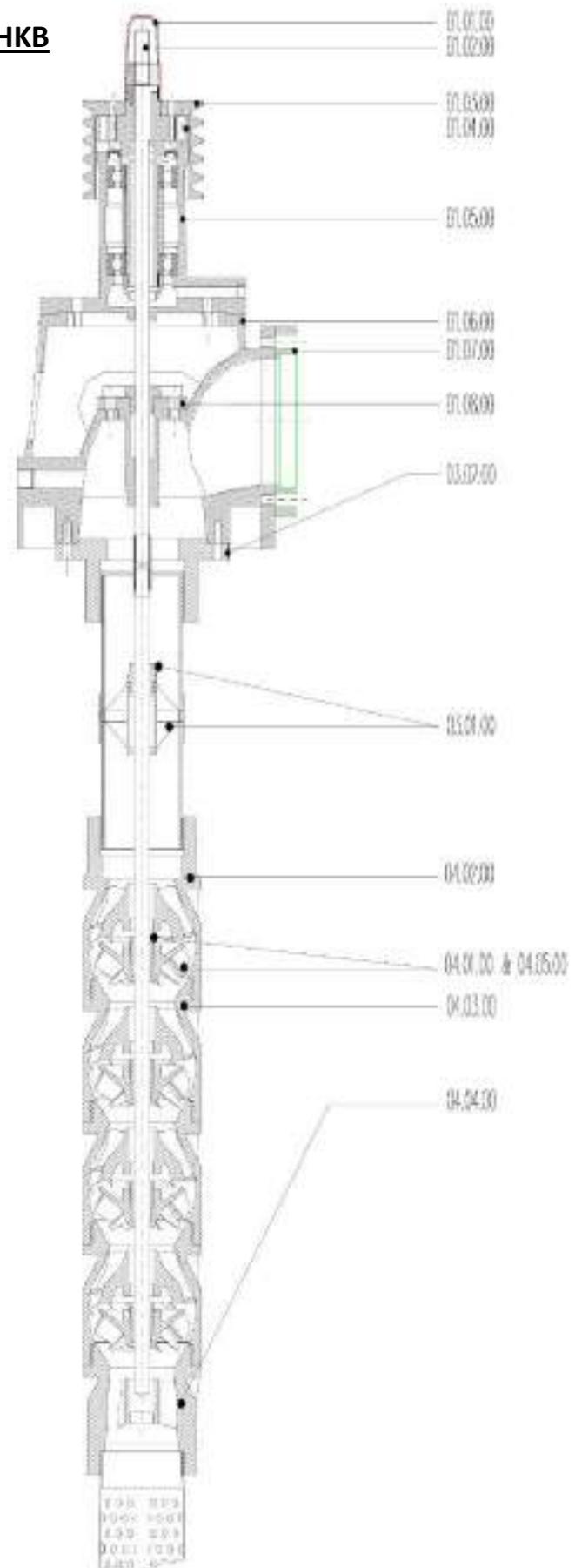
Pump Type	12-HKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	36.0 kg / 38.9 kg
Bowl Length	207 mm
Outer Bowl Diameter	288 mm
Bowl's Connection	INOX (S.S.) Bolts
Impeller Type	Semi - Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	4.50 kg / 4.03 kg
Inner Diameter of Impeller	135 mm
Outer Diameter of Impeller	232 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 16.5"
Input Tube Diameter	8"
Output Tube Diameter	8"

Technical Standards of Shaft and Tubes

Tube Diameter	8"
Tube thickness	7.1 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1 1/2" – 1 11/16"
Shaft Connection	Thread Coupling



12 - HKB

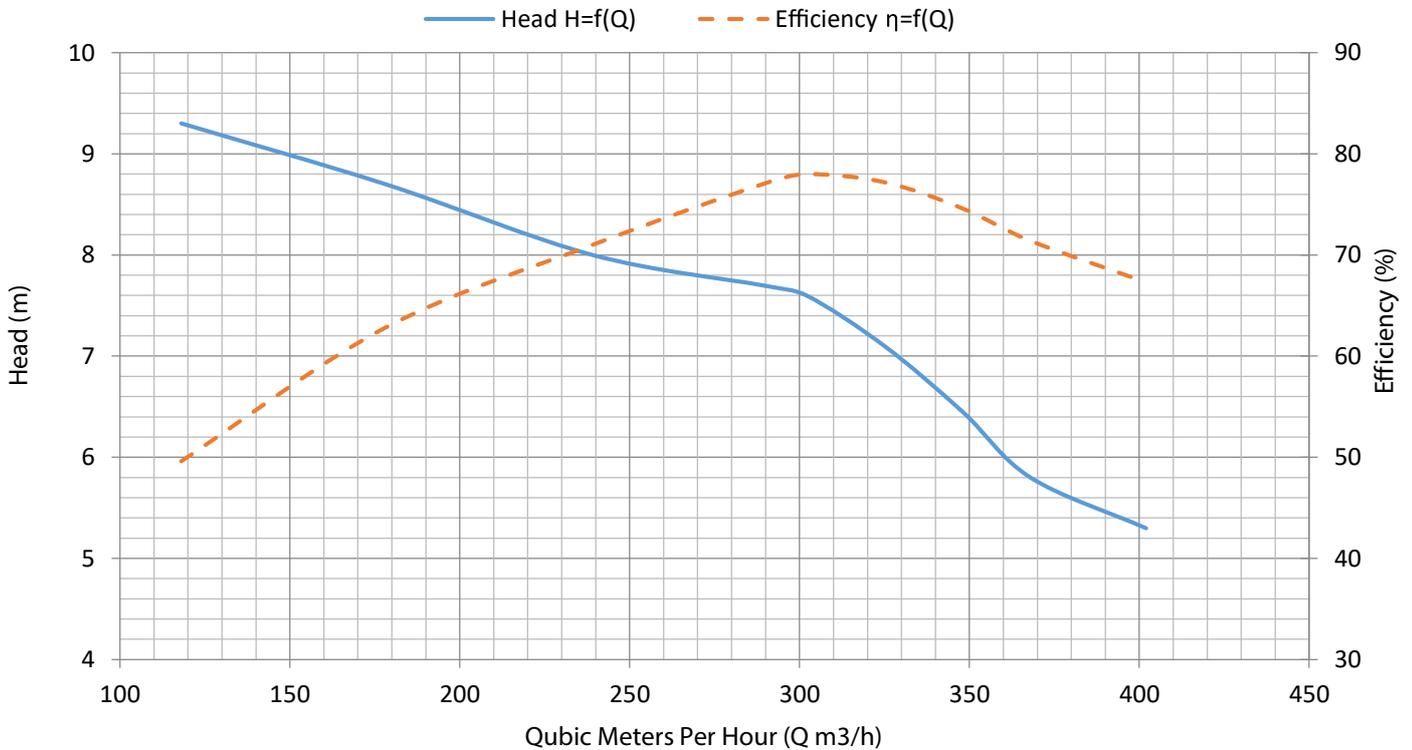


One bowl/stage
Performance Curves

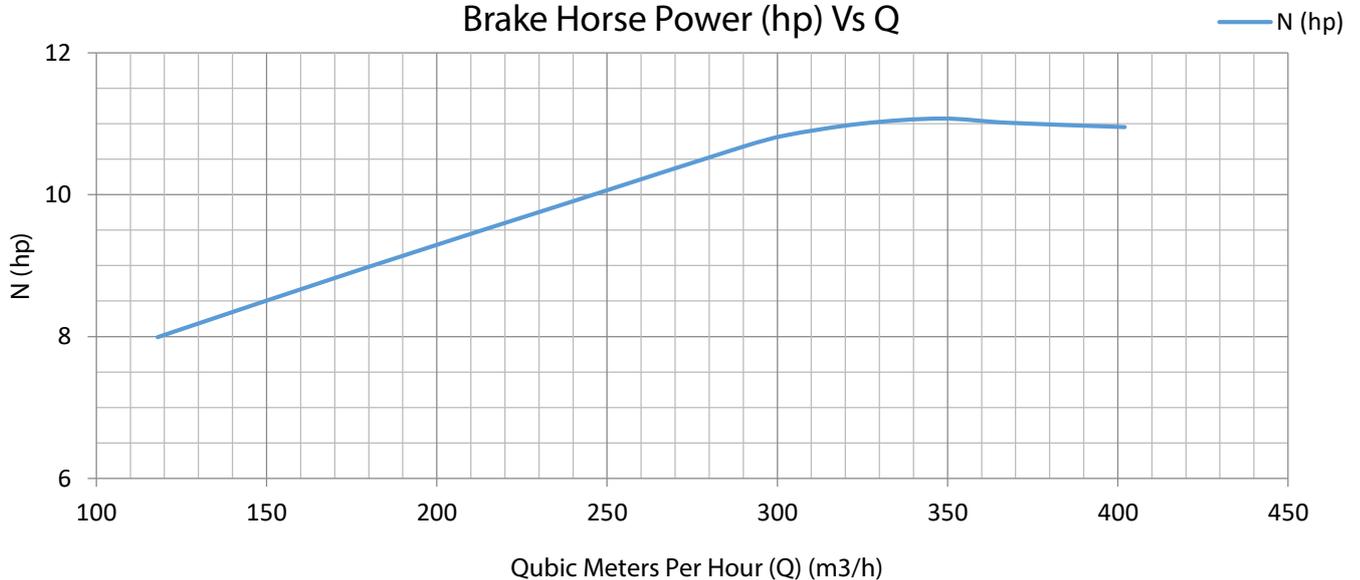
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 12HKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	12-HKB-F
Type	Semi-Closed with Lock Collet
Inner Diameter	155 mm
Outer diameter	232 mm
Number of Blades	7
Material	Bronze / INOX
Weight	4.5 kg / 4.04 kg

Bowl Parameters

Model	12-HKB
Outer diameter	288 mm
Basic Height	207 mm
Standard Shaft Size	1 1/2"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	36.0 kg / 38.9 kg

14 - KHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 14-KHKB

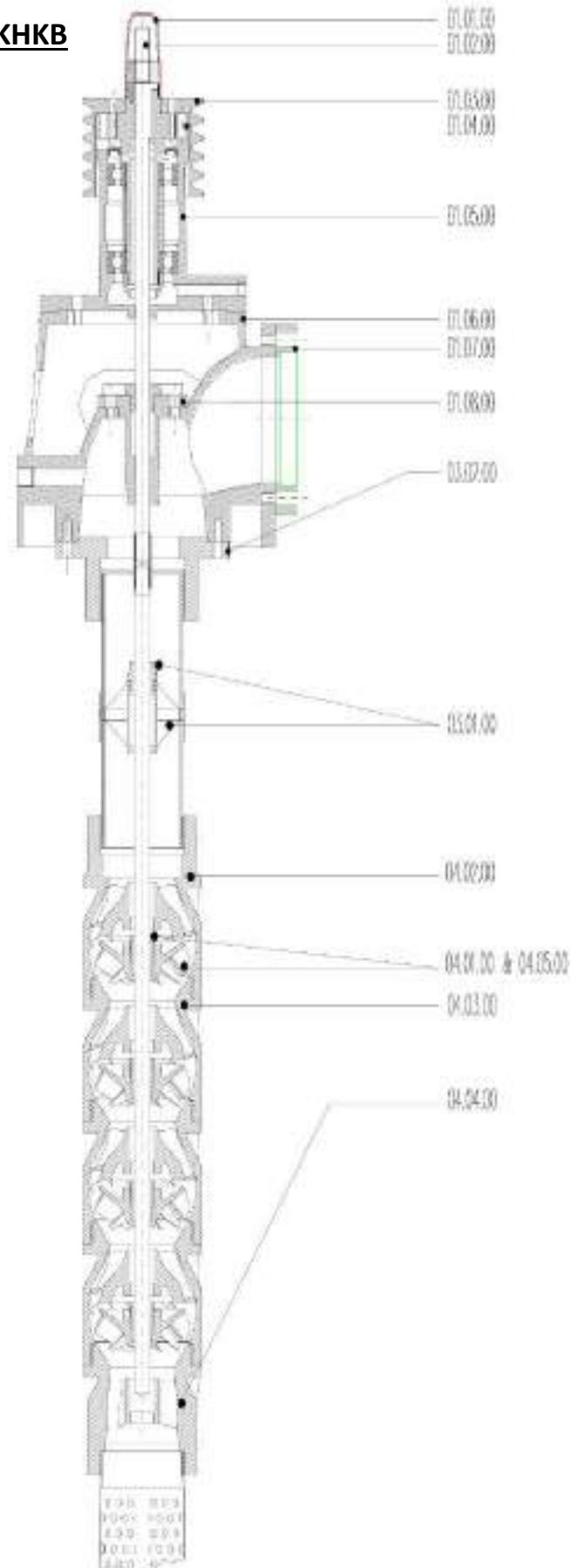
Pump Type	14-KHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	79.1 kg / 85.6kg
Bowl Length	310 mm
Outer Bowl Diameter	350 mm
Bowl's Connection	INOX (S.S.) Bolts
Impeller Type	Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	11.8 kg / 10.6 kg
Inner Diameter of Impeller	205 mm
Outer Diameter of Impeller	284 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 20"
Input Tube Diameter	10"
Output Tube Diameter	10"

Technical Standards of Shaft and Tubes

Tube Diameter	10"
Tube thickness	11 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	1 15/16"
Shaft Connection	Thread Coupling



14 - KHKB

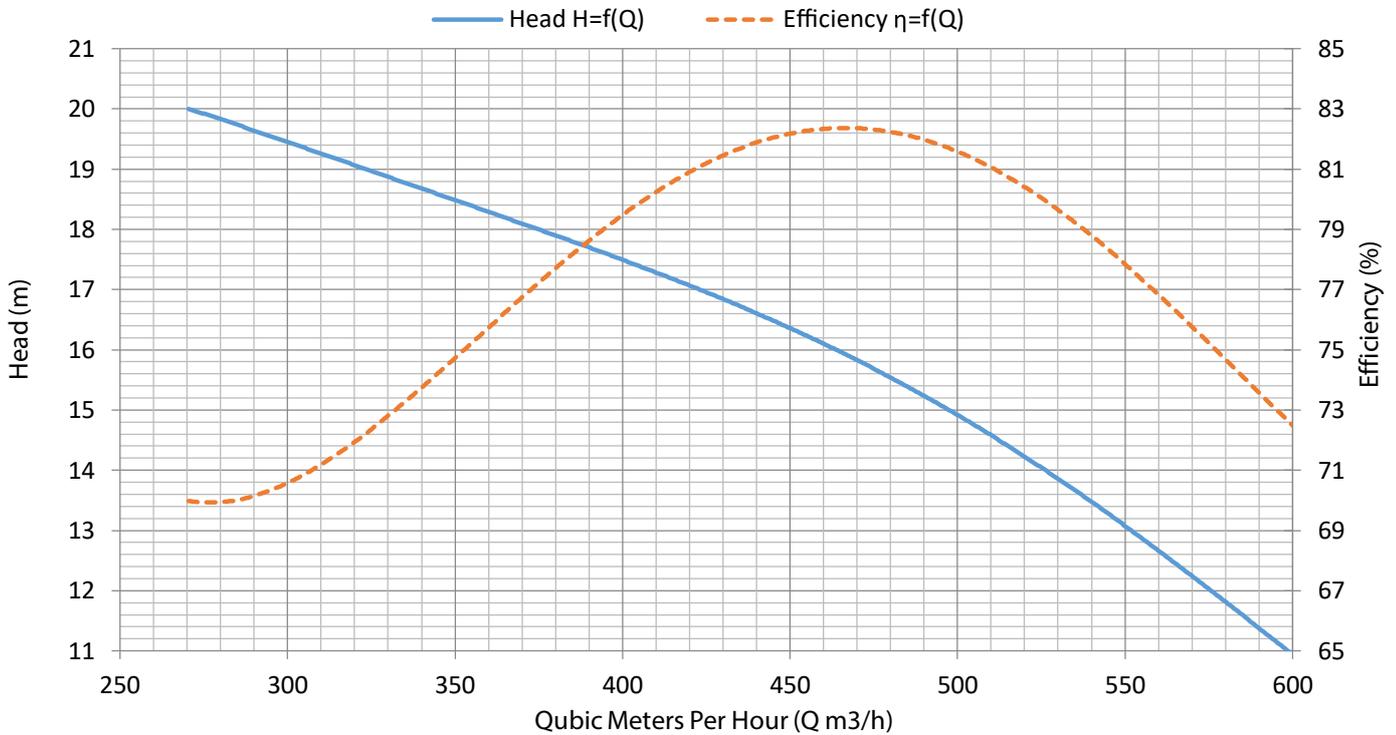


One bowl/stage
Performance Curves

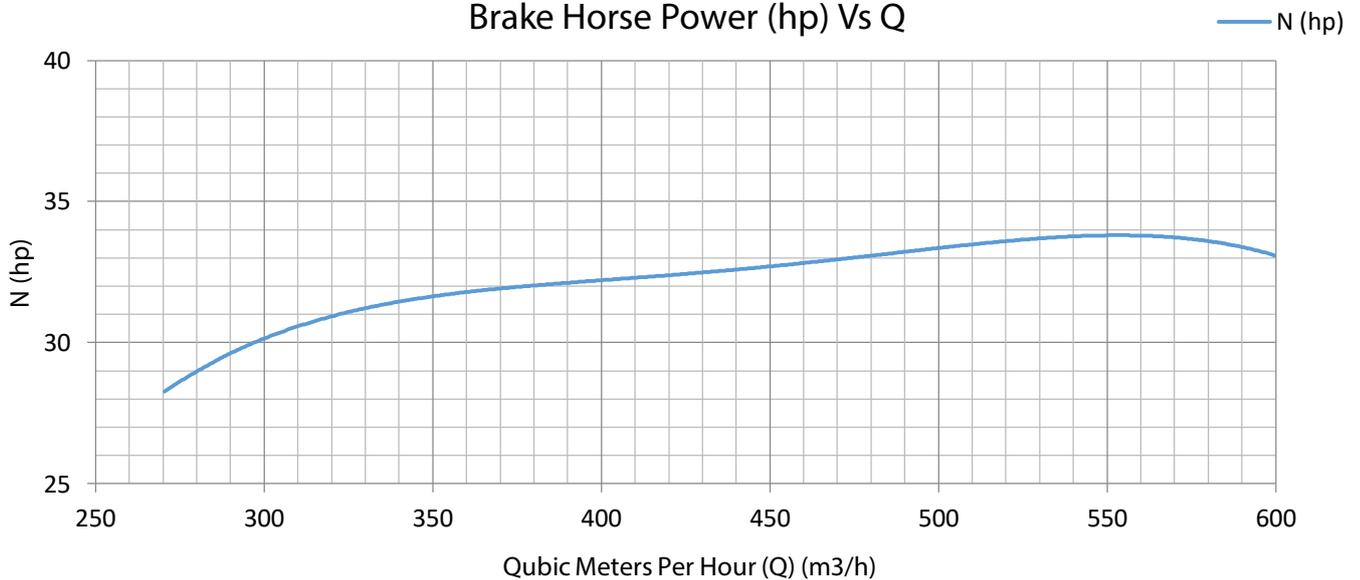
Counterclockwise
at 1490 rpm

Vertical Pump Turbine

Performance Curve For Stage 14-KHKB (1490 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	14-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	205 mm
Outer diameter	284 mm
Number of Blades	6
Material	Bronze / INOX
Weight	11.8 kg / 10.6 kg

Bowl Parameters

Model	14-KHKB
Outer diameter	350 mm
Basic Height	310 mm
Standard Shaft Size	1 15/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	79.0 kg / 85.5 kg

14 - KHKB

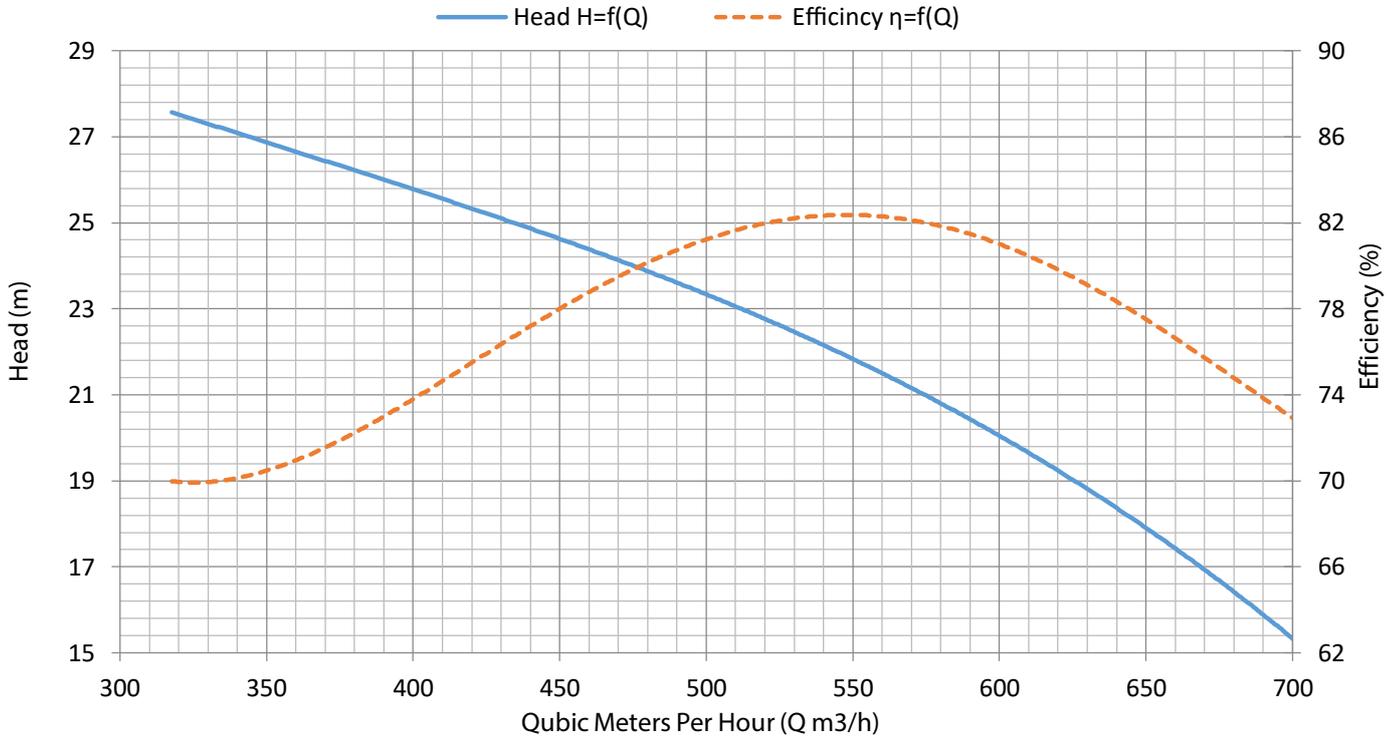


One bowl/stage
Performance Curves

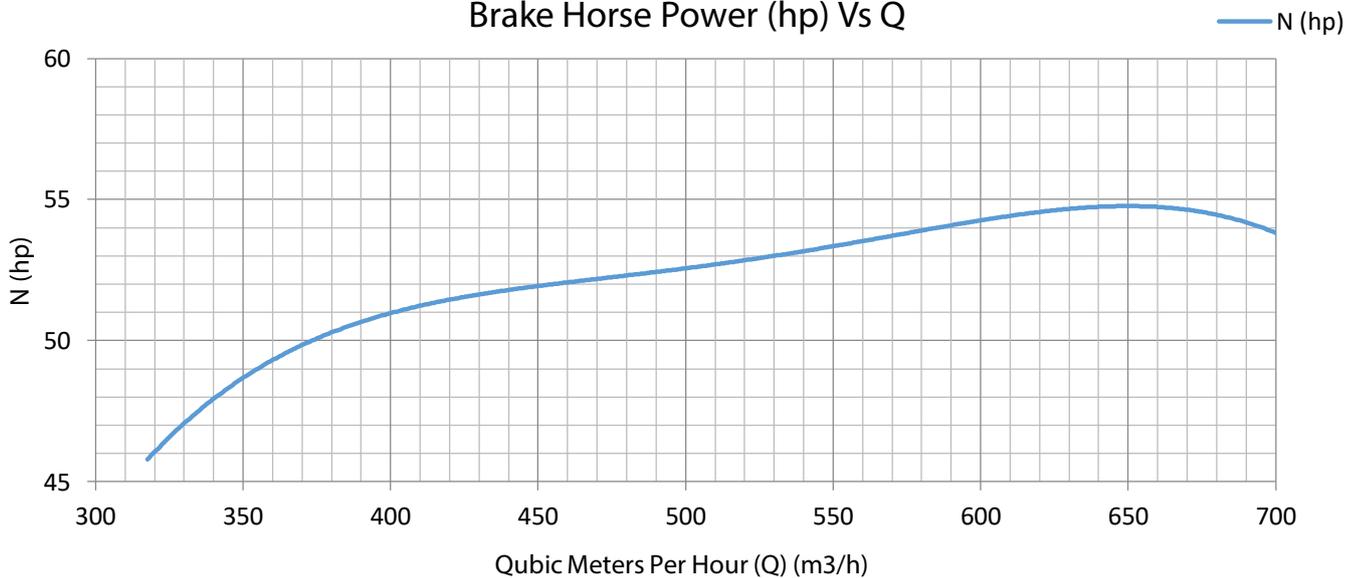
Counterclockwise
at 1750rpm

Vertical Pump Turbine

Performance Curve For Stage 14-KHKB (1750 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	14-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	205 mm
Outer diameter	284 mm
Number of Blades	6
Material	Bronze / INOX
Weight	11.8 kg / 10.6 kg

Bowl Parameters

Model	14-KHKB
Outer diameter	350 mm
Basic Height	310 mm
Standard Shaft Size	1 15/16"
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	79.0 kg / 85.5 kg

16 - KHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 16-KHKB

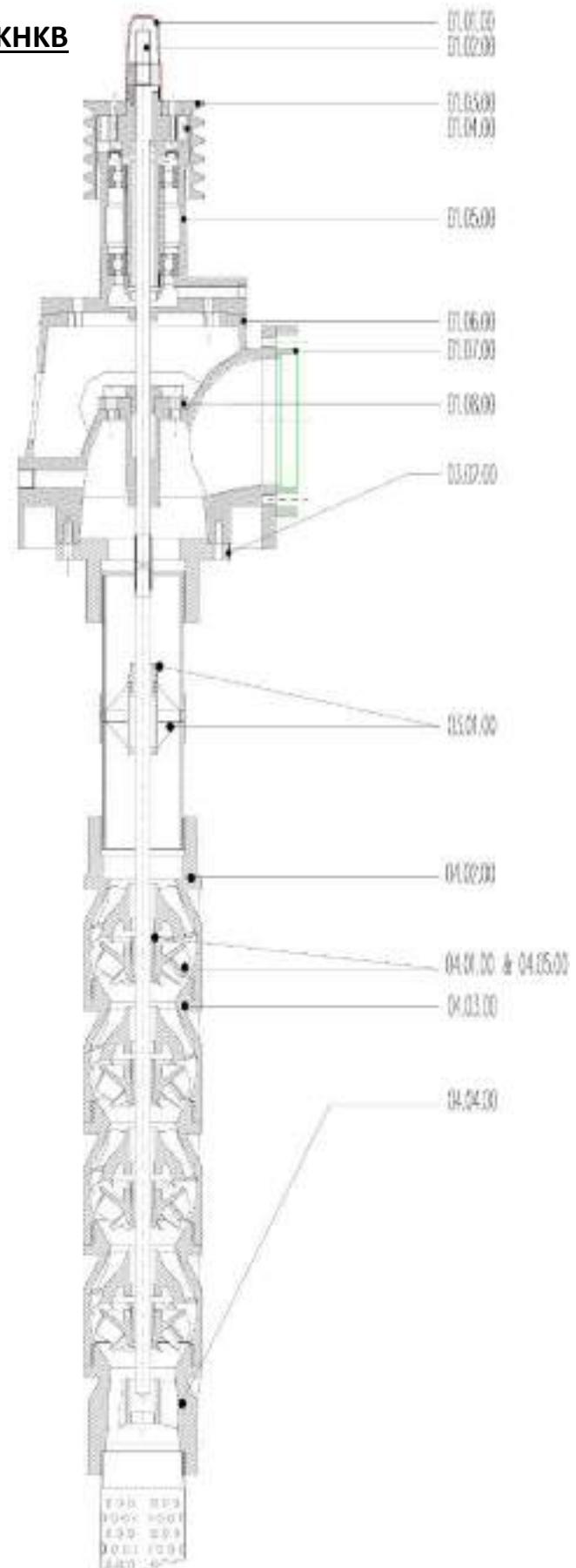
Pump Type	16-KHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	91.0 kg / 98.4 kg
Bowl Length	370 mm
Outer Bowl Diameter	390 mm
Bowl's Connection	INOX (S.S.) Bolts
Impeller Type	Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	15.3 kg / 13.7 kg
Inner Diameter of Impeller	200 mm
Outer Diameter of Impeller	318 to 300 mm
Number of Impeller Blades	6
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 20"
Input Tube Diameter	12"
Output Tube Diameter	12"

Technical Standards of Shaft and Tubes

Tube Diameter	12" - 14"
Tube thickness	12 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	50 mm
Shaft Connection	Thread Coupling



16 - KHKB

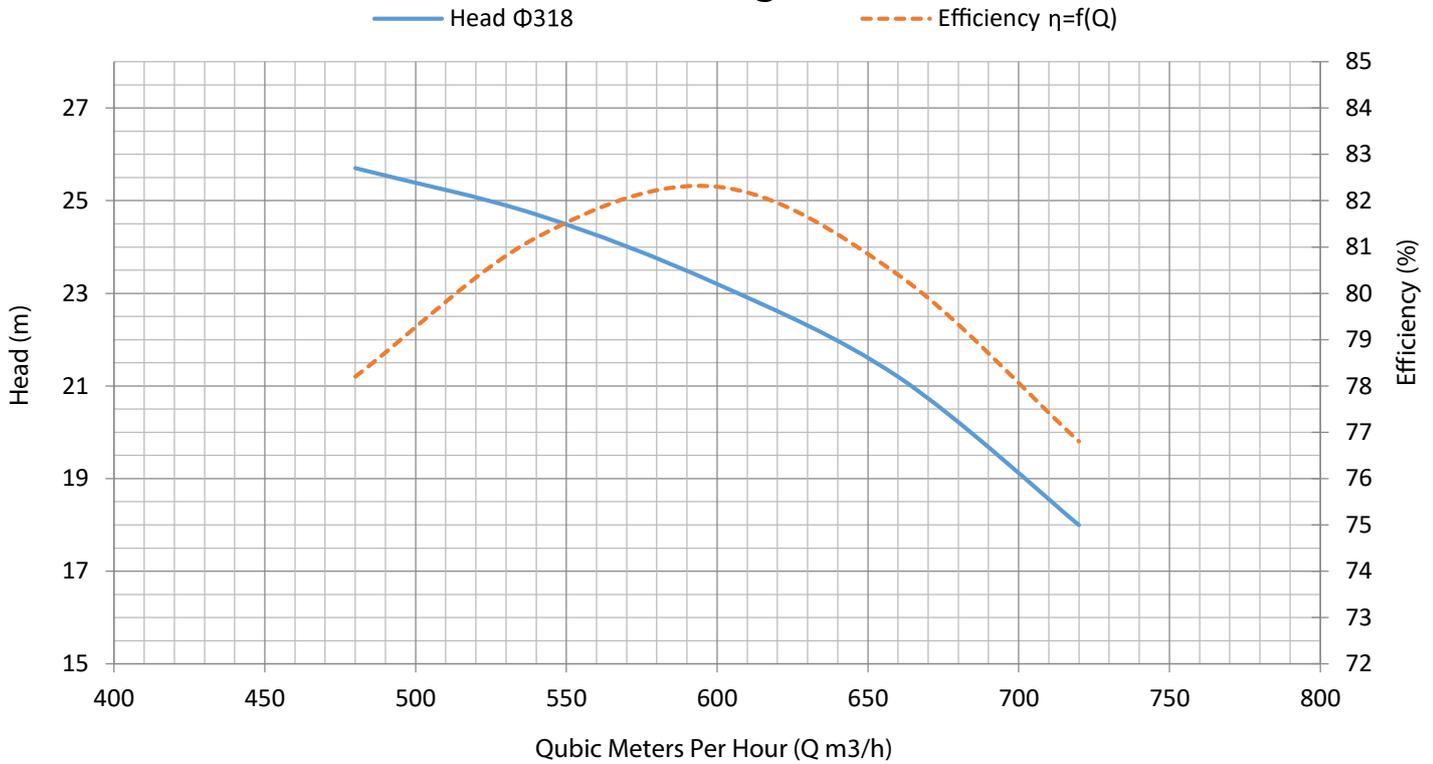


One bowl/stage
Performance Curves

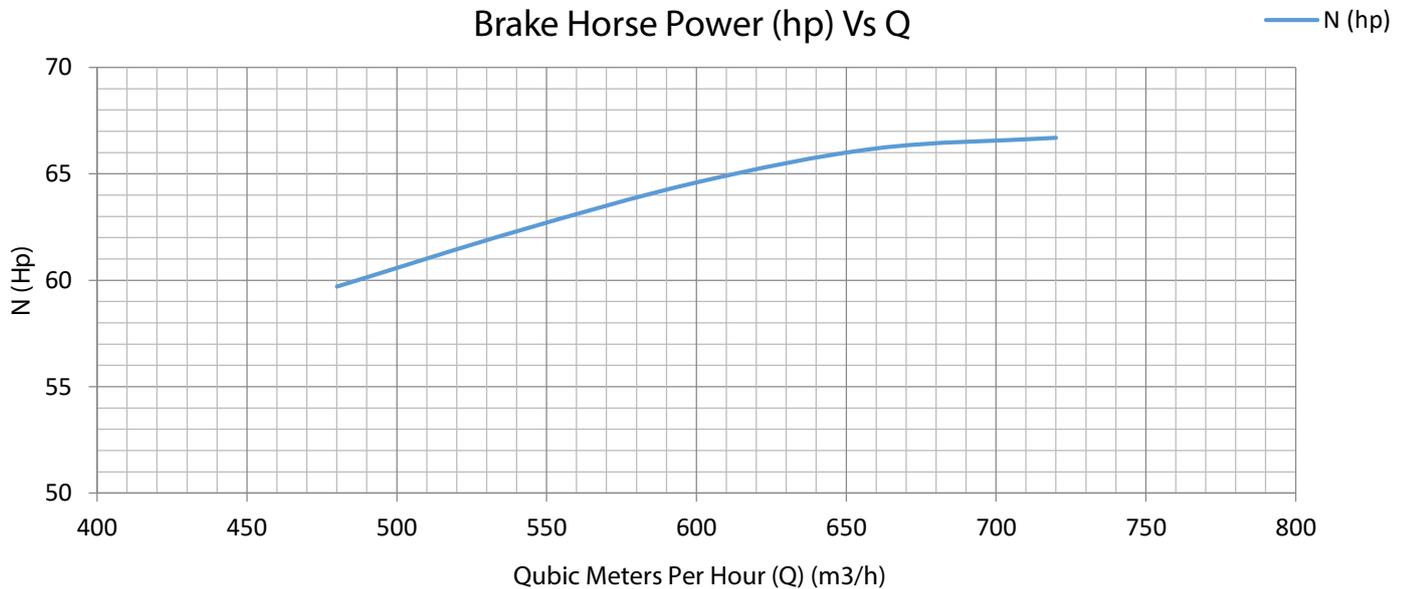
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 16KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	16-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	200 mm
Outer diameter	318-298 mm
Number of Blades	6
Material	Bronze / INOX
Weight	15.3 kg / 13.7 kg

Bowl Parameters

Model	16-KHKB
Outer diameter	390 mm
Basic Height	370 mm
Standard Shaft Size	Φ 50 mm
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	91.0 kg / 98.4 kg

16 - KHKB

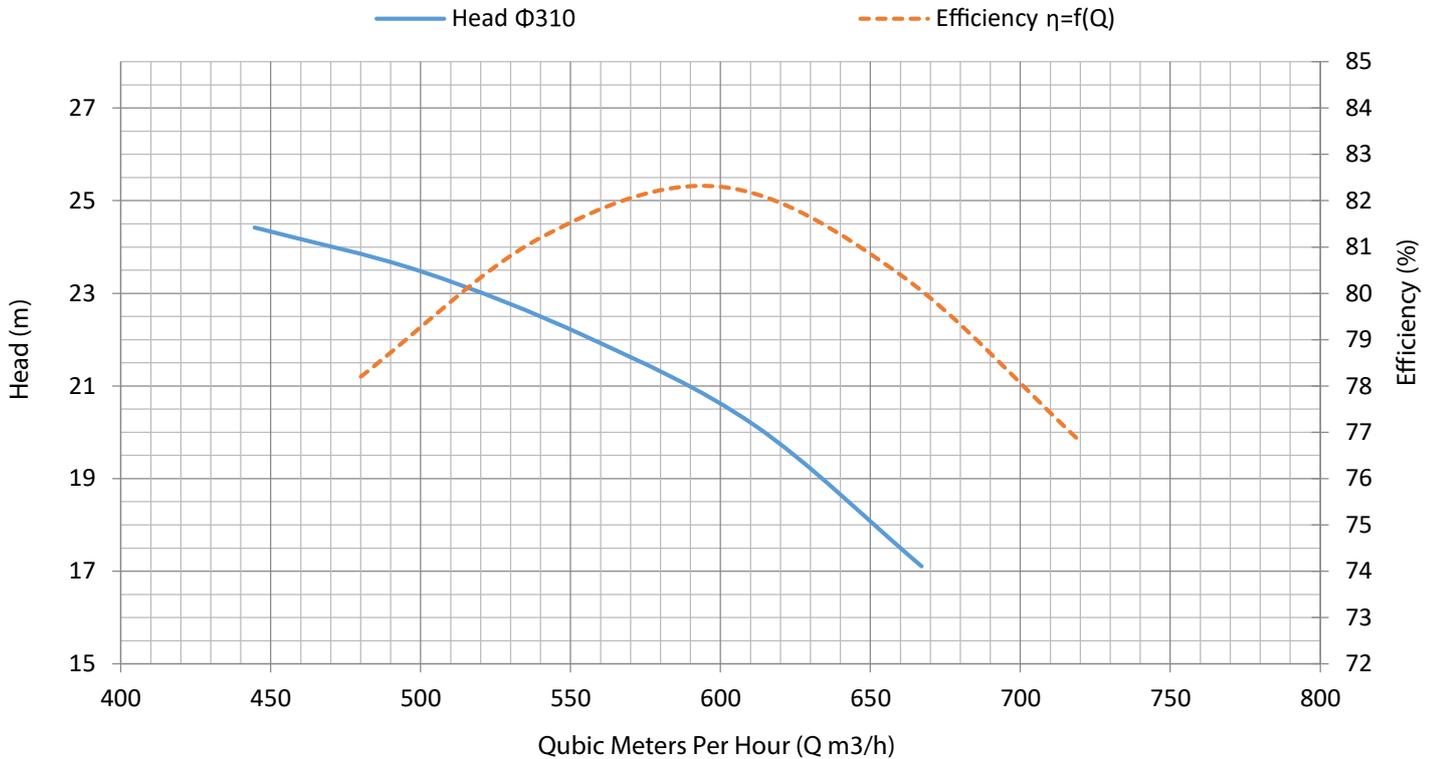


One bowl/stage
Performance Curves

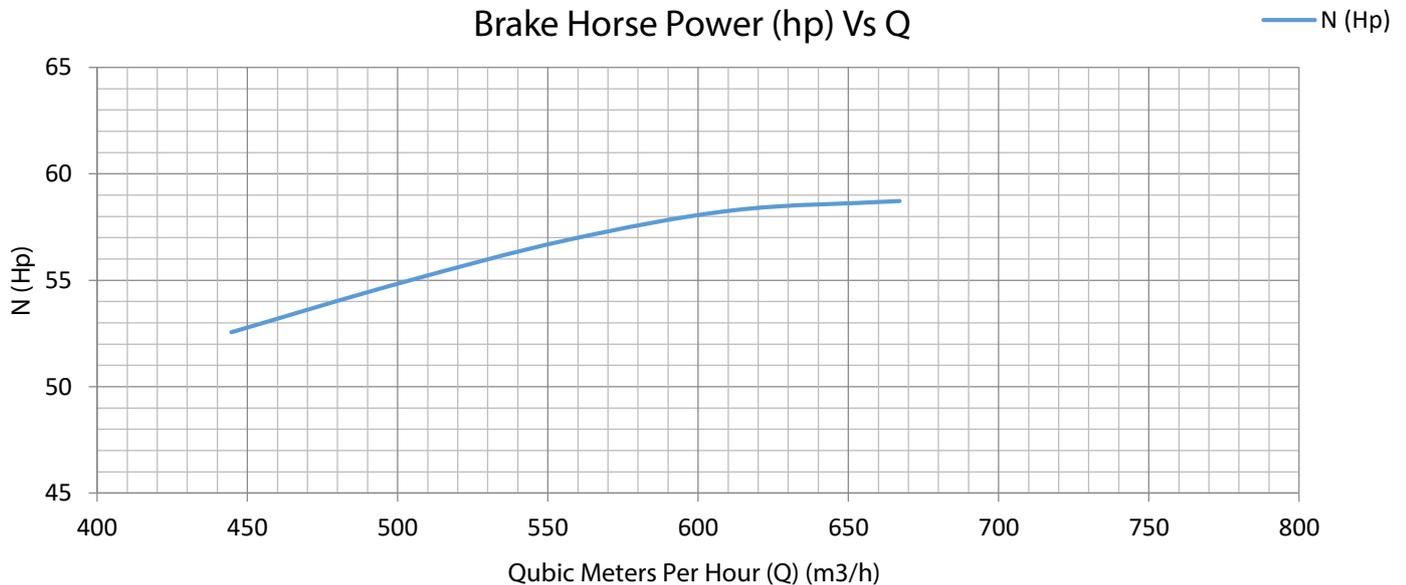
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 16KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	16-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	200 mm
Outer diameter	310-290 mm
Number of Blades	6
Material	Bronze / INOX
Weight	15.3 kg / 13.7 kg

Bowl Parameters

Model	16-KHKB
Outer diameter	390 mm
Basic Height	370 mm
Standard Shaft Size	Φ 50 mm
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	91.0 kg / 98.4 kg

16 - KHKB

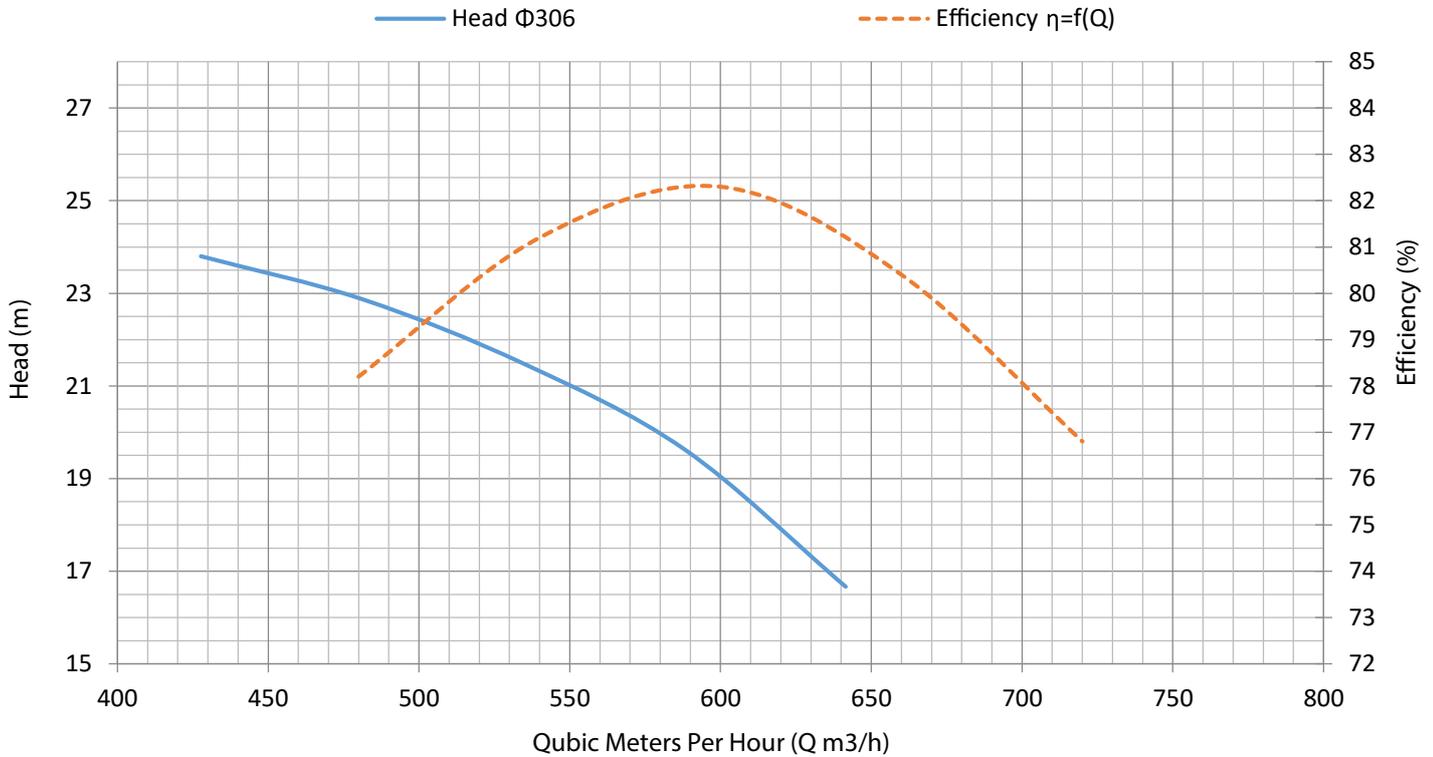


One bowl/stage
Performance Curves

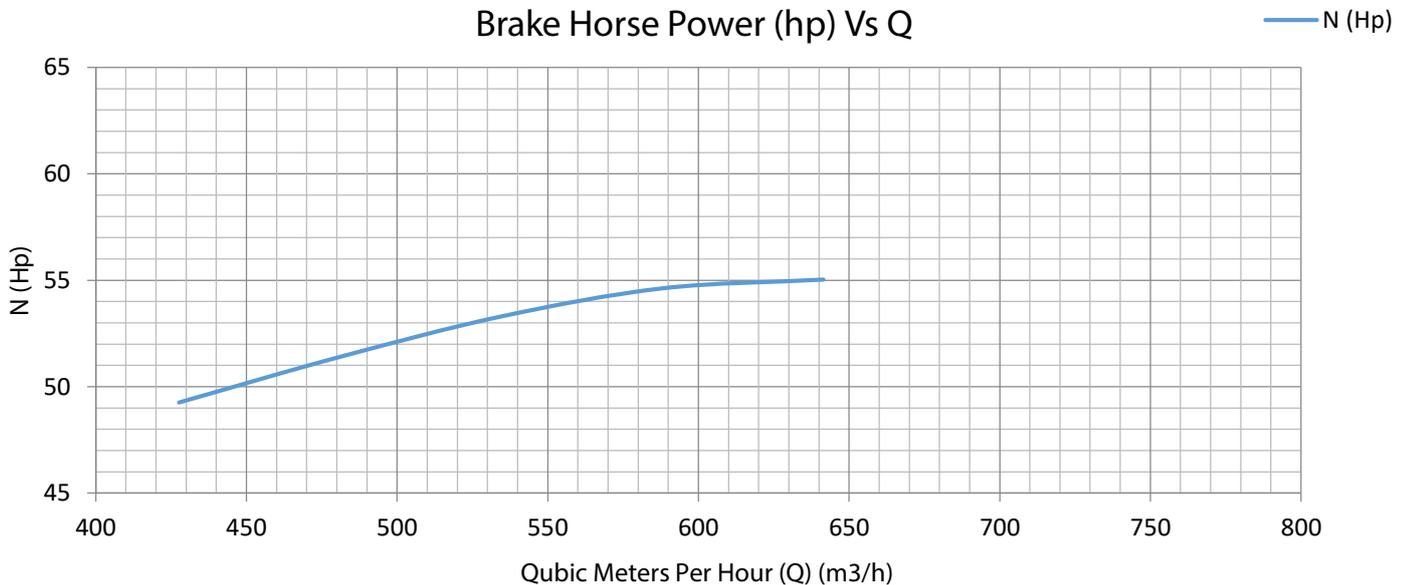
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 16KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	16-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	200 mm
Outer diameter	300-280 mm
Number of Blades	6
Material	Bronze / INOX
Weight	15.3 kg / 13.7 kg

Bowl Parameters

Model	16-KHKB
Outer diameter	390 mm
Basic Height	370 mm
Standard Shaft Size	Φ 50 mm
Shaft alignment in bowl	Bronze / Rubber Bearing
Material	Cast Iron / INOX
Weight	91.0 kg / 98.4 kg

18 - KHKB

Technical Specifications

Vertical Pump Turbine

Technical Standards of Vertical Turbine Pump 18-KHKB

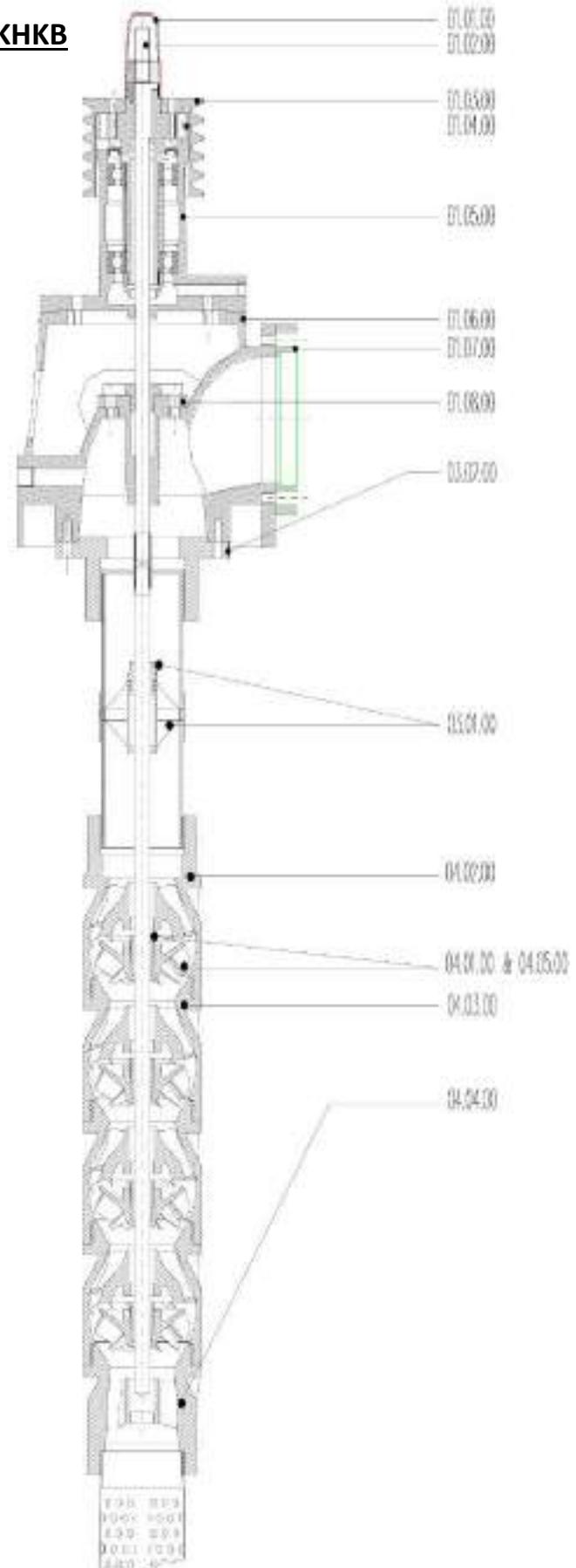
Pump Type	18-KHKB
Bowl Material	Cast Iron / INOX (S.S.)
Bowl Weight	114.0 kg / 123.4 kg
Bowl Length	440 mm
Outer Bowl Diameter	450 mm
Bowl's Connection	INOX (S.S.) Bolts
Impeller Type	Closed
Impeller rotation	Counterclockwise
Impeller Material	Bronze / INOX (S.S.)
Impeller weight	26.5 kg / 23.8 kg
Inner Diameter of Impeller	314 mm
Outer Diameter of Impeller	330 to 300 mm
Number of Impeller Blades	7
Shaft Material	Stainless Steel
Shaft-Impeller Connection Type	Lock Collets

Technical Standards of Head Discharge

Head Discharge Type	SEB 24"
Input Tube Diameter	14"
Output Tube Diameter	14"

Technical Standards of Shaft and Tubes

Tube Diameter	14" – 16"
Tube thickness	12 mm
Tube length	3.04 m (10 ft)
Tube Connection	Thread Coupling
Diameter of Stainless Steel Shaft	60 mm
Shaft Connection	Thread Coupling



18 - KHKB

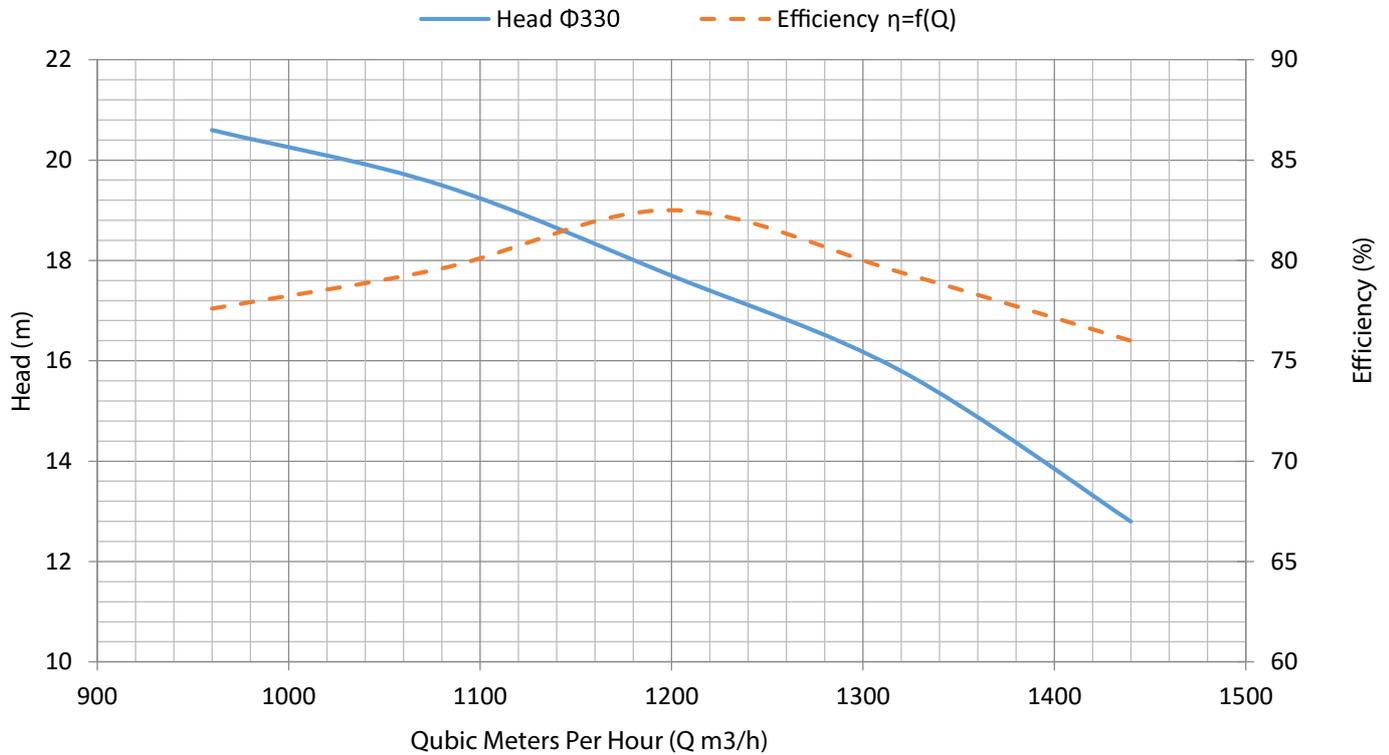


One bowl/stage
Performance Curves

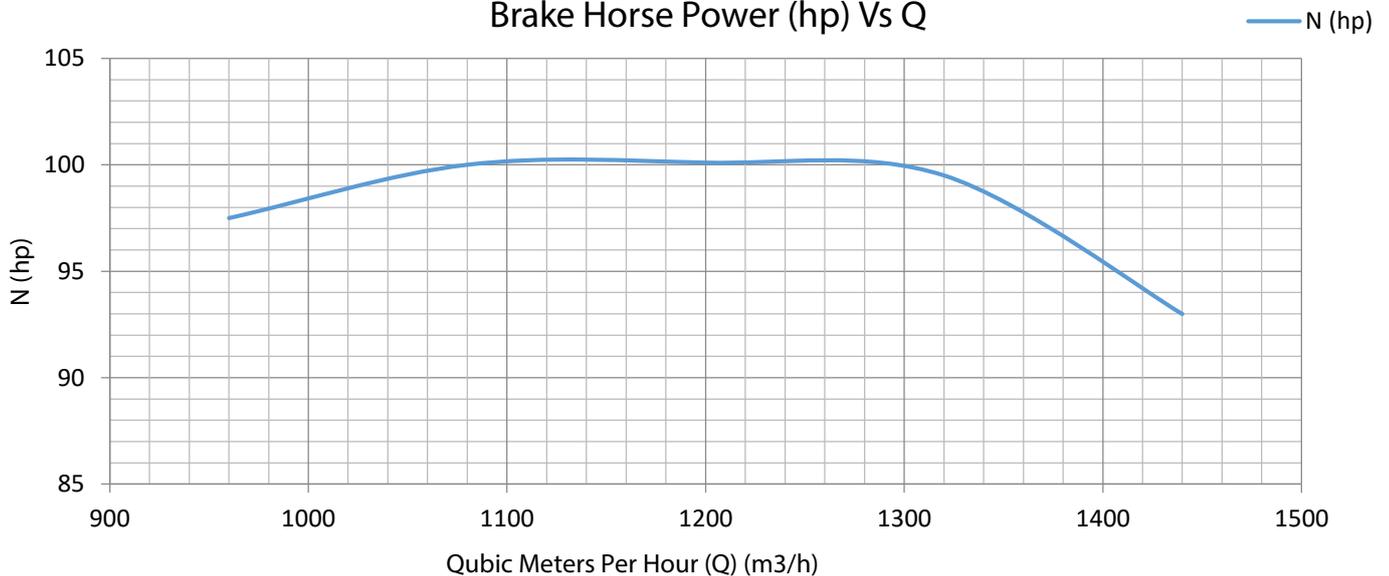
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 18KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	18-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	314 mm
Outer diameter	330-255 mm
Number of Blades	7
Material	Bronze / INOX
Weight	26.5 kg / 23.8 kg

Bowl Parameters

Model	18-KHKB
Outer diameter	450 mm
Basic Height	440 mm
Standard Shaft Size	Φ 60 mm
Shaft alignment in bowl	Bronze & Rubber Bearing
Material	Cast Iron / INOX
Weight	114 kg / 123.4 kg

18 - KHKB

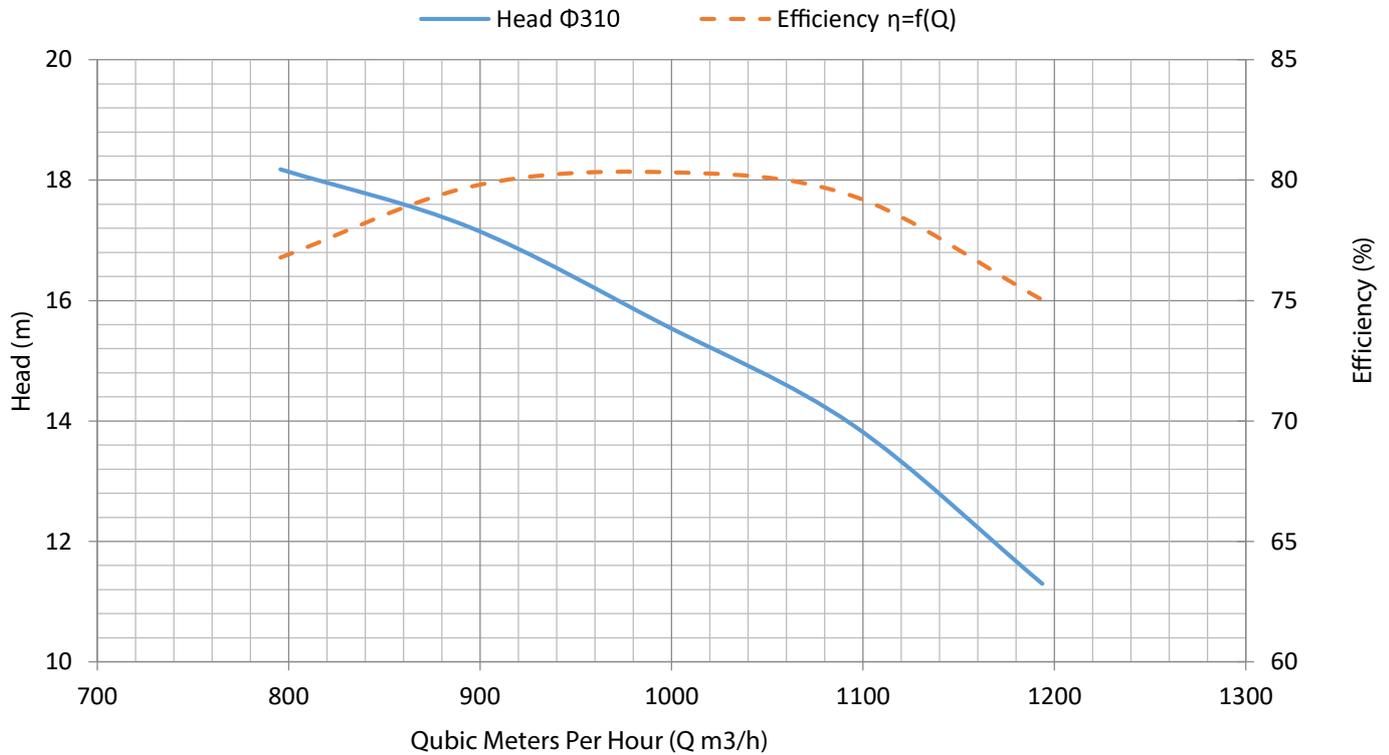


One bowl/stage
Performance Curves

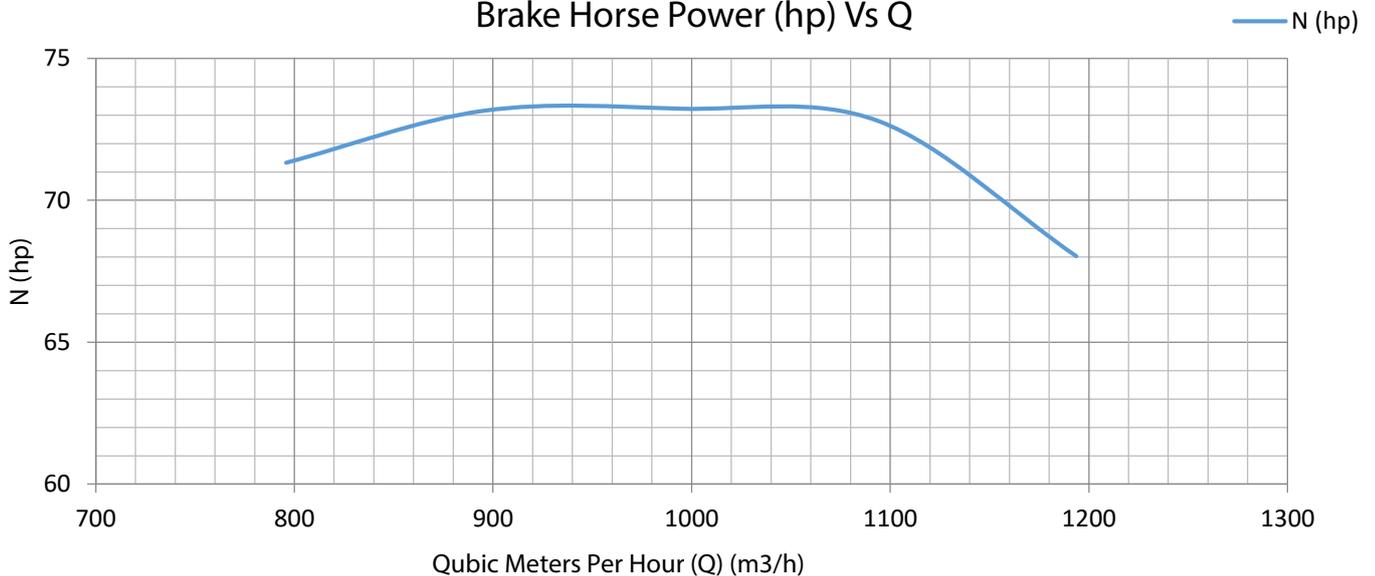
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 18KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	18-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	314 mm
Outer diameter	310-230 mm
Number of Blades	7
Material	Bronze / INOX
Weight	25 kg / 22.4 kg

Bowl Parameters

Model	18-KHKB
Outer diameter	450 mm
Basic Height	440 mm
Standard Shaft Size	Φ 60 mm
Shaft alignment in bowl	Bronze & Rubber Bearing
Material	Cast Iron / INOX
Weight	114 kg / 123.4 kg

18 - KHKB

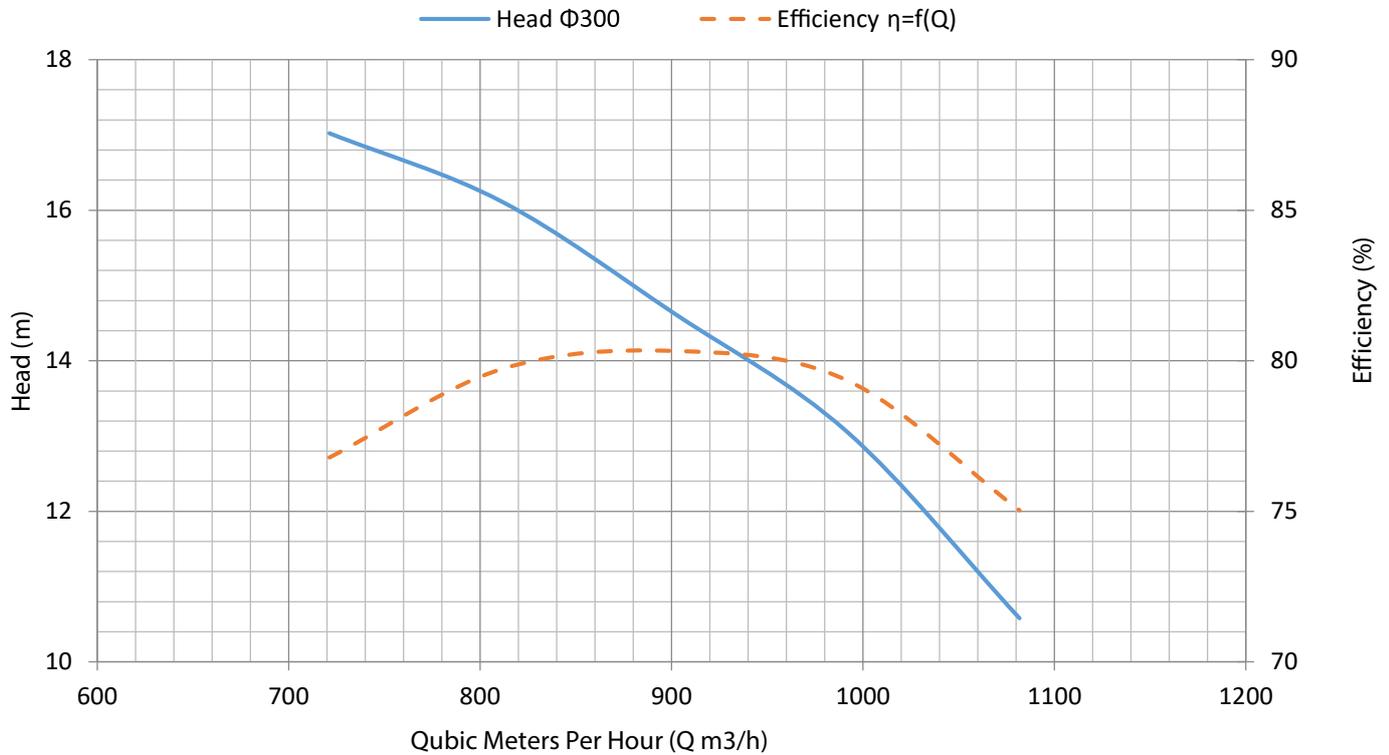


One bowl/stage
Performance Curves

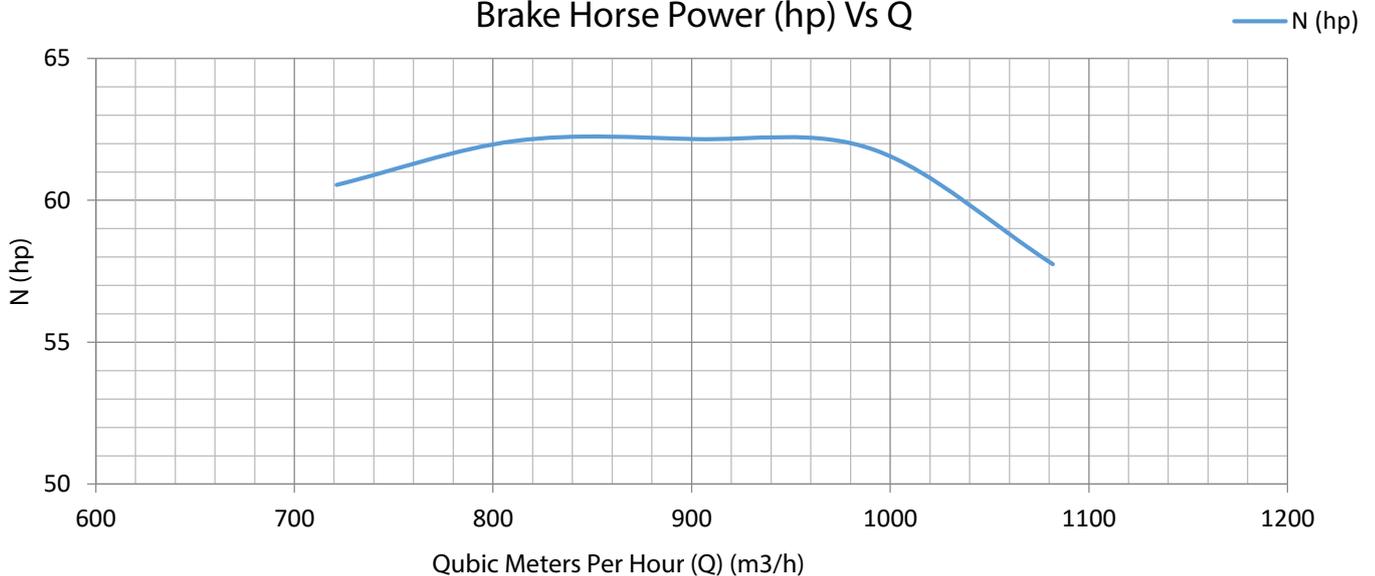
Counterclockwise
at 1450 rpm

Vertical Pump Turbine

Performance Curve For Stage 18KHKB (1450 RPM)



Brake Horse Power (hp) Vs Q



Impeller Parameters

Model	18-KHKB-F
Type	Closed with Lock Collet
Inner Diameter	314 mm
Outer diameter	300-205 mm
Number of Blades	7
Material	Bronze / INOX
Weight	24.2 kg / 21.7 kg

Bowl Parameters

Model	18-KHKB
Outer diameter	450 mm
Basic Height	440 mm
Standard Shaft Size	Φ 60 mm
Shaft alignment in bowl	Bronze & Rubber Bearing
Material	Cast Iron / INOX
Weight	114 kg / 123.4 kg

Contacto



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