



WLS Series



Stainless Steel
Single Stage Semi-Open Impeller Pumps

Catalogue

www.met.com.my



SHINDO HAS CONSTANTLY DEVELOP THE CREDIBILITY TO SERVE THE INDUSTRY EFFICIENTLY.

SHINDO IS COMMITTED TO PROVIDE HIGH VALUE-ADDED PRODUCTS IN MINIMUM LEAD-TIME AND AT COST EFFECTIVE PRICING, TO HELP CUSTOMERS ACHIEVE ZERO DOWNTIME, PRODUCTION TARGET AND HELP ENHANCE A SAFER ENVIRONMENT.



STAINLESS STEEL SINGLE STAGE SEMI-OPEN IMPELLER PUMPS

PAGE CONTENTS

01	APPLICATION MODEL CODE
02	CONSTRUCTION DESIGN
03	GENERAL ARRANGEMENT& DIMENSIONAL DRAWING (FOR WLS37K)
04	GENERAL ARRANGEMENT& DIMENSIONAL DRAWING (FOR WLS100K TO WLS400K)
05	SELECTION CHART
06	PERFORMANCE CURVE (FOR WLS37K)
07	PERFORMANCE CURVE (FOR WLS100K)
08	PERFORMANCE CURVE (FOR WLS120K)
09	PERFORMANCE CURVE (FOR WLS150K)
10	PERFORMANCE CURVE (FOR WLS200K)
11	PERFORMANCE CURVE (FOR WLS300K)
12	PERFORMANCE CURVE (FOR WLS400K)

Application

Shindo Stainless Steel Single Stage Semi-Open Impeller Pumps, WLS Series are suitable for cleaning system of various production lines as it is capable to convey liquid containing solid suspension. WLS Series are suited to many types of industrial process such as food cleaning processing, bottle, can or glassware cleaning machinery and it is also capable to transfer dirty water in dishwasher process. Generally, below are the suitable applications for WLS Series:

- ✕ Circulation Cleaning System
- ✕ Liquid Transferring Containing Impurities
- ✕ Food Processing Cleaning
- ✕ Industry Machinery Cleaning
- ✕ Dirty Water General Transfer

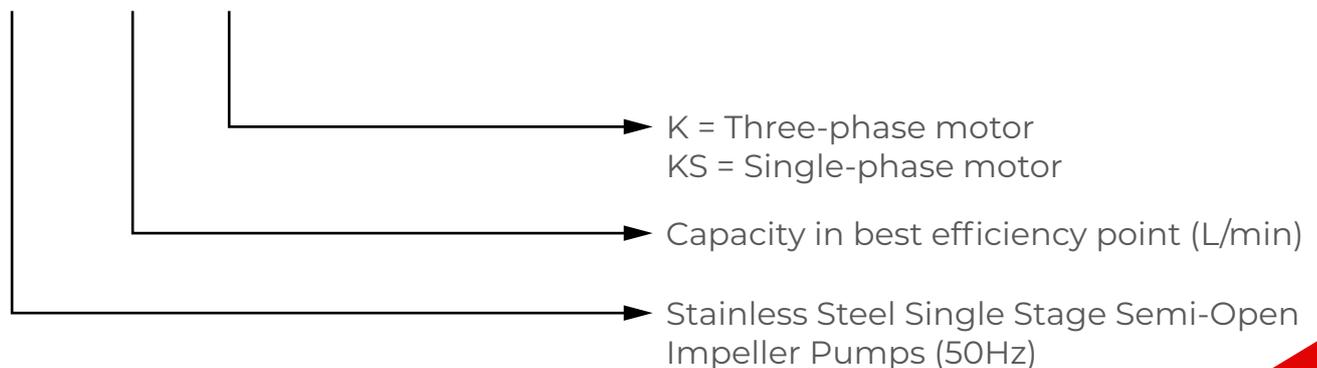
Performance range for WLS series:

- ✕ Max. Capacity (Q) = 66m³/hr
- ✕ Max. Head (H) = 17.5m
- ✕ Max. Operating Pressure:
 - ▶ WLS100K to 400K = 8 bar
 - ▶ WLS37K = 3 bar
- ✕ Max. Suction Pressure = 4 bar
- ✕ Max. Ambient Temperature = +40°C
- ✕ Max. Liquid Temperature = +70°C



Model Code

WLS 200 K



Construction Design

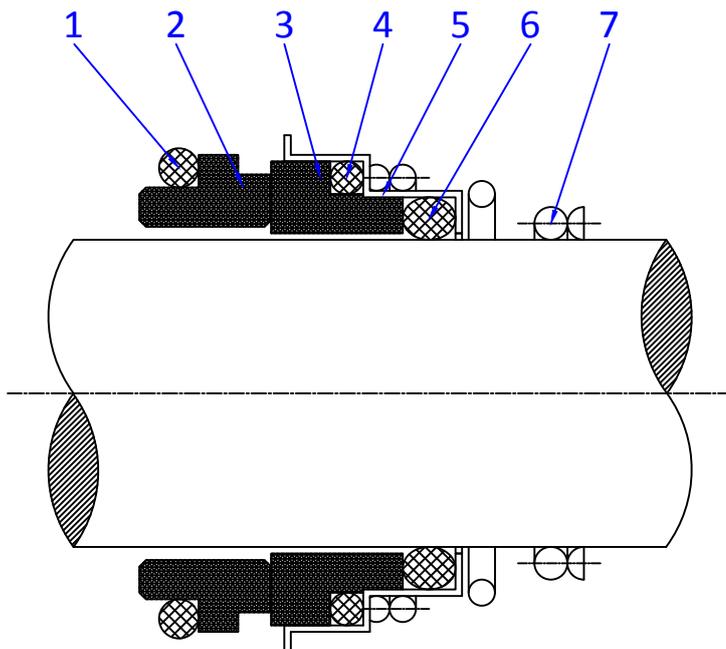
Hydraulic Parts

- α Pump casing and impeller are made up of stainless steel (SS304).
- α Shaft is made up of stainless steel (SS420).
- α The standard material of mechanical seal is Carbon/Ceramic/NBR.
- α The impeller is semi-open type which can handle solid with maximum diameter of 19mm.
- α WLS pump is design with axial suction and vertical discharge (Both are threaded).

Electric Motor

- α The pump is coupled with totally enclosed, fan-cooled squirrel-cage aluminum casing motor built-in thermal overload units.
- α Insulation Class: F
- α Enclosure Class: IP55
- α Speed: 2900RPM
- α Standard Voltage: 1 x 220-240V, 50Hz
3 x 220-240V/380-415V, 50Hz
- α Sound Level: <65dB(A)

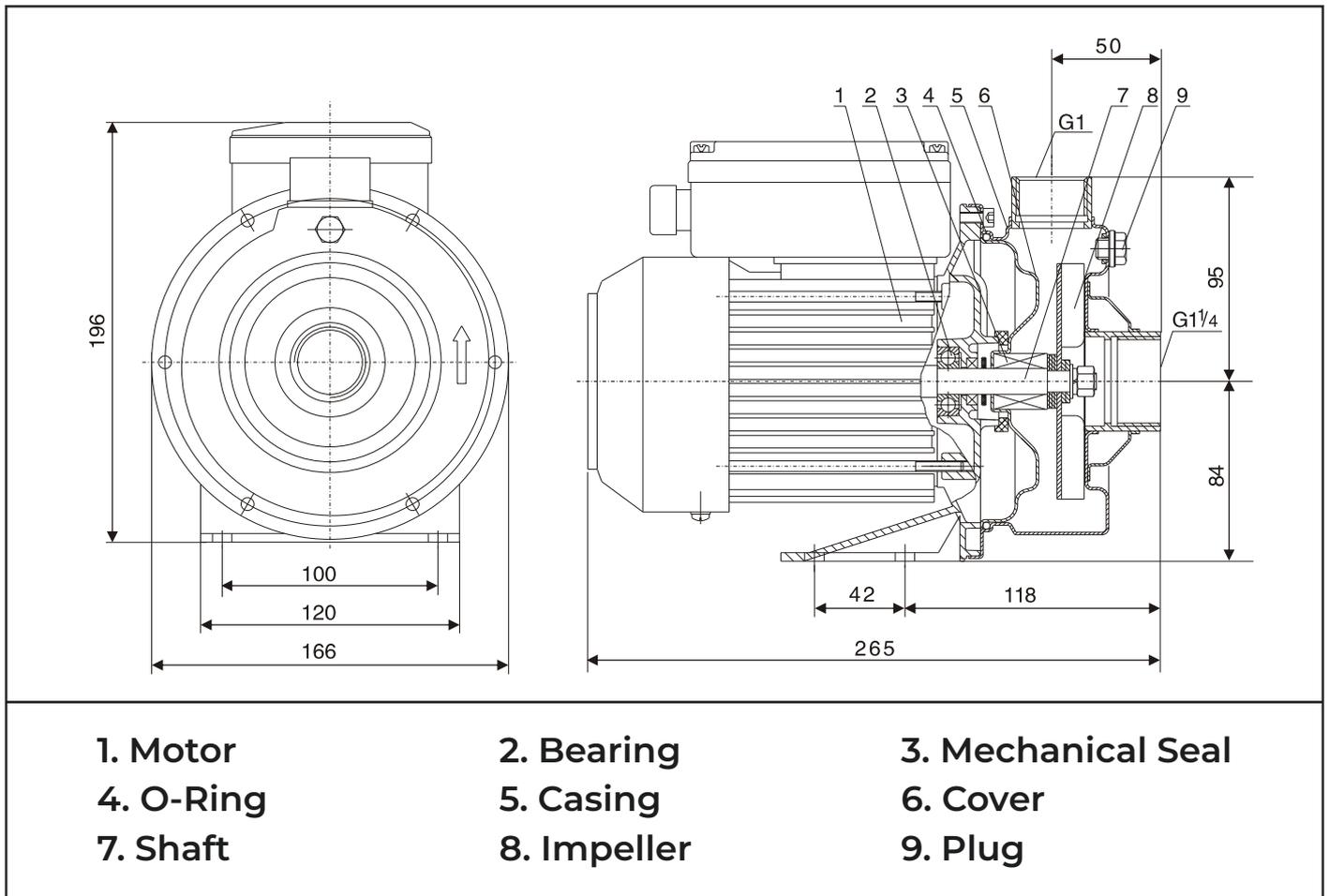
Material of Mechanical Seal



No.	Name	Qty	Material
1	O-Ring	1	NBR or FPM
2	Stationary Seats	1	Carbon
3	Seal Faces	1	Ceramic
4	O-Ring	1	NBR or FPM
5	Seal Faces Base	1	Stainless Steel
6	O-Ring	1	NBR or FPM
7	Spring	1	Stainless Steel

General Arrangement & Dimensional Drawing

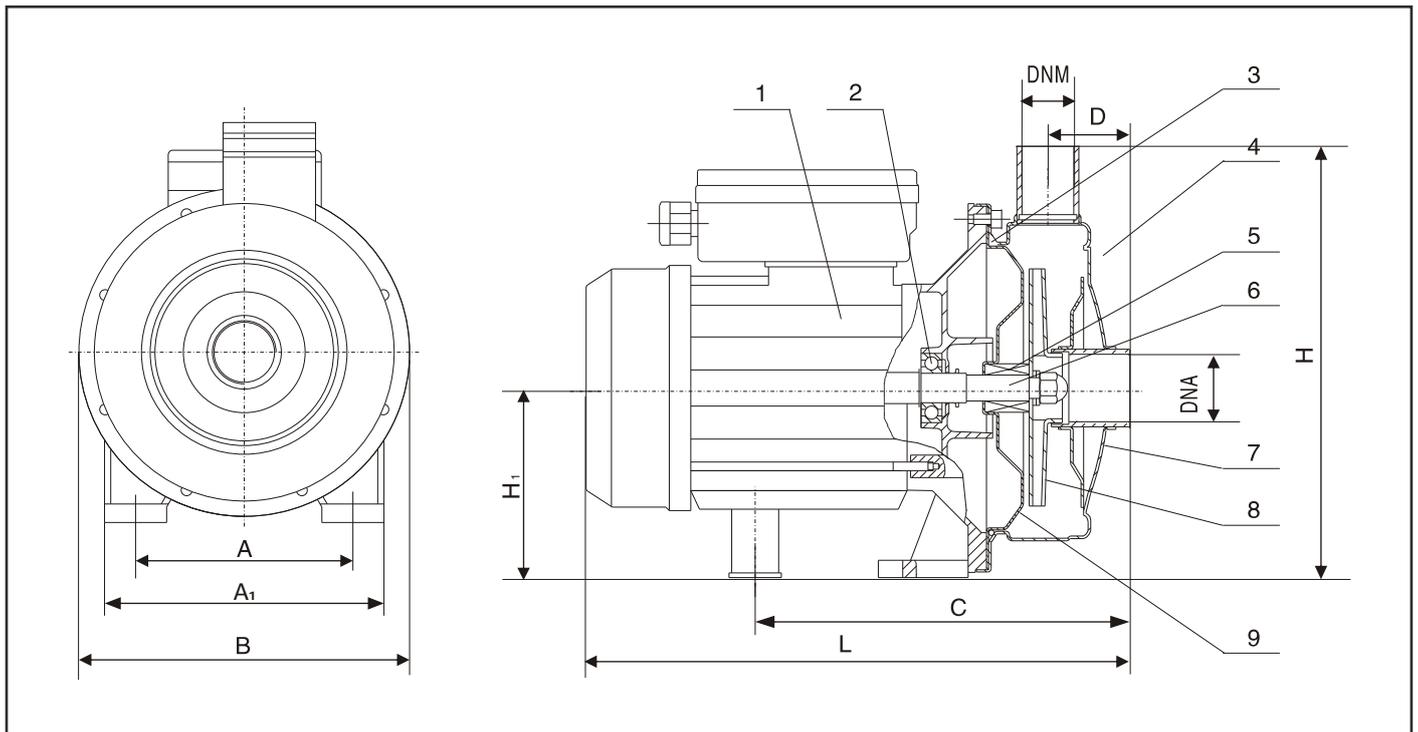
For WLS37K



***All dimensions in mm unless specified

General Arrangement & Dimensional Drawing

For WLS100K to WLS400K



1. Motor
4. Plug
7. Casing

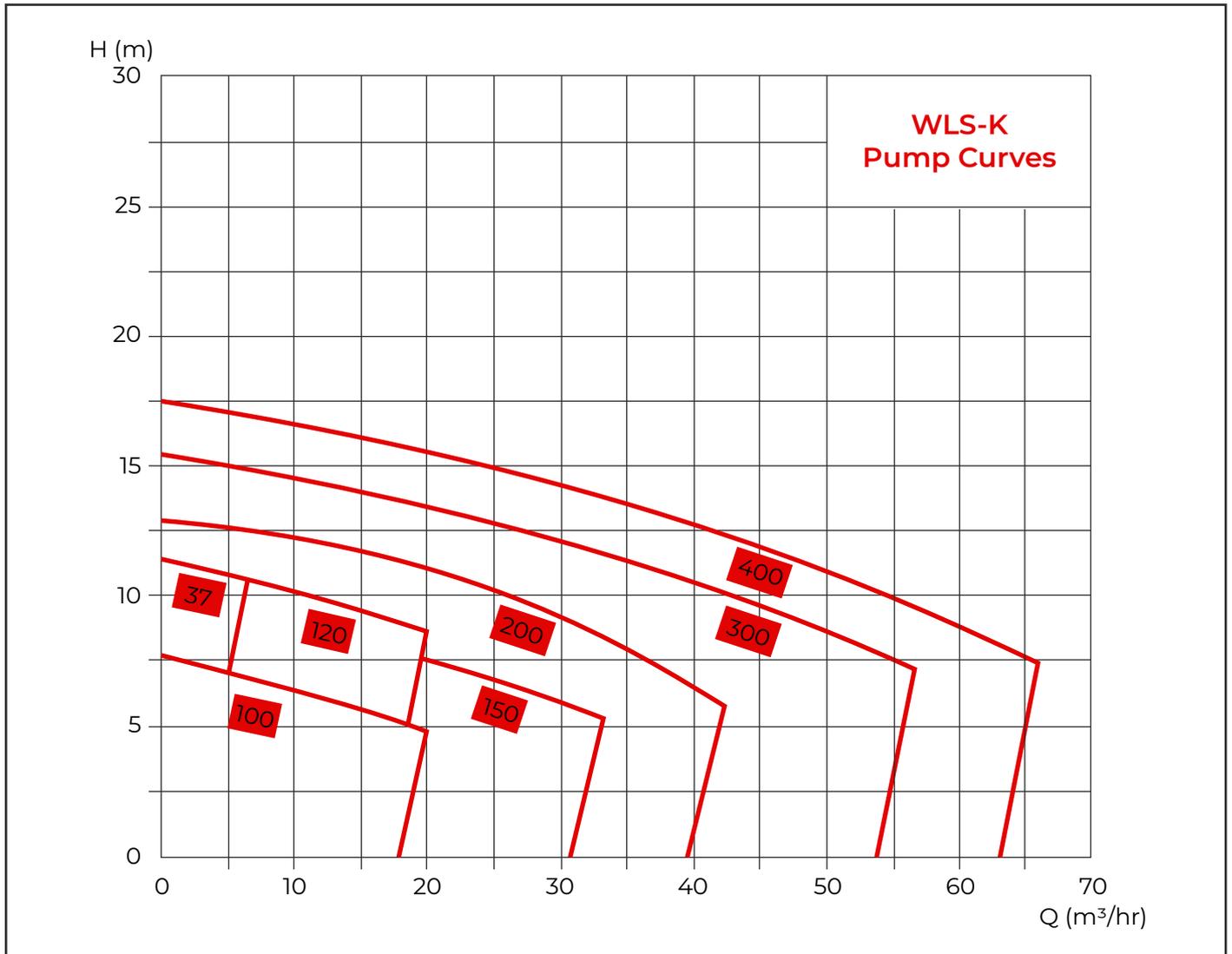
2. Bearing
5. Mechanical Seal
8. Impeller

3. O-Ring
6. Shaft
9. Cover

Model	DNA	DNM	A	A ₁	B	C	D	H	H ₁	L
WLS100K	G1½"	G1½"	120	160	170	248.5	74.5	226	108	358
WLS120K	G1½"	G1½"	120	160	170	248.5	74.5	226	108	358
WLS150K	G2"	G2"	140	180	193	256	82	253	120	364
WLS200K	G2"	G2"	140	180	193	256	82	253	120	364
WLS300K	G2½"	G2"	140	180	193	247	82	253	120	364
WLS400K	G2½"	G2"	140	180	193	247	82	253	120	364

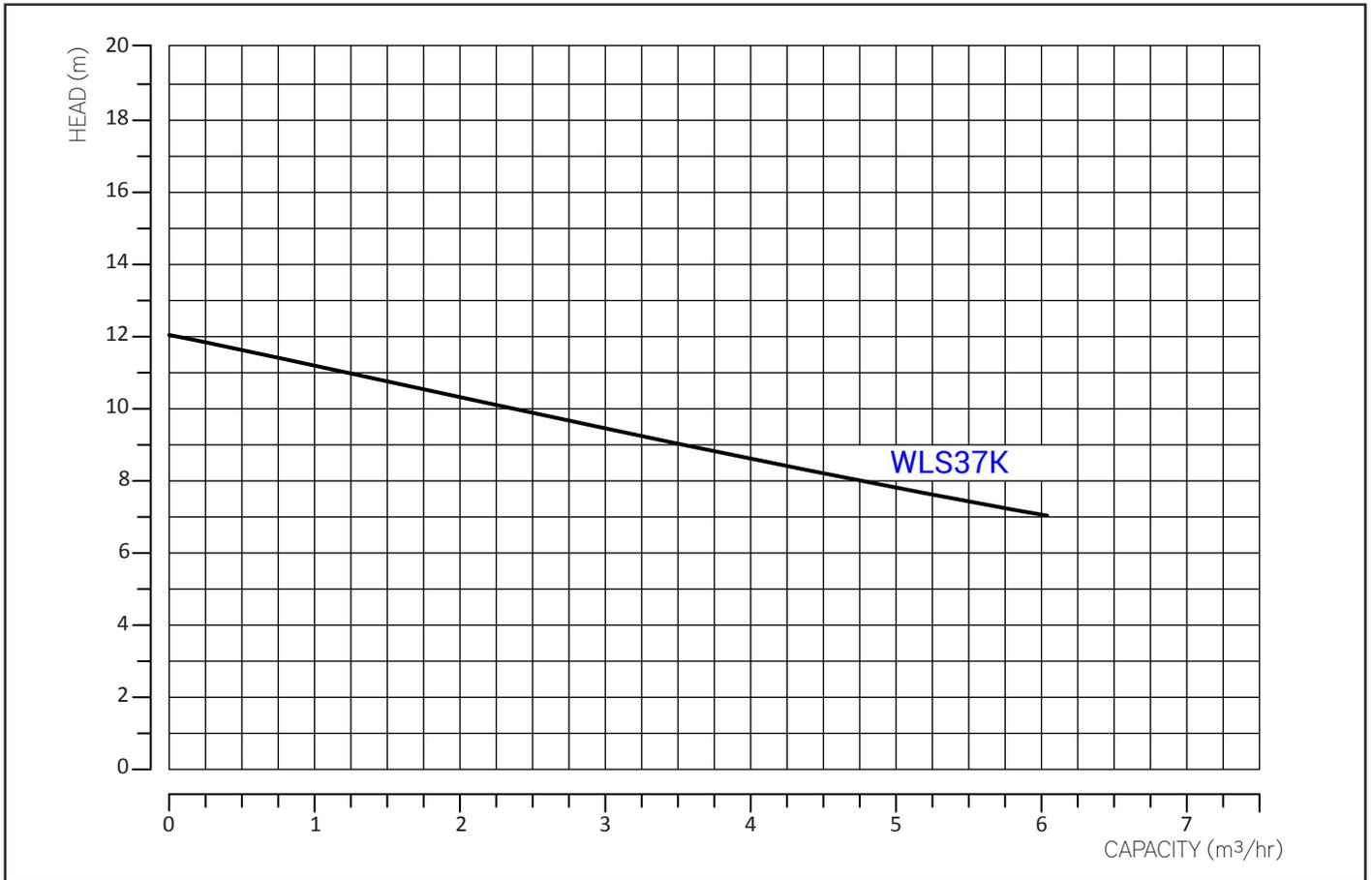
***All dimensions in mm unless specified

Selection Chart



Performance Curve

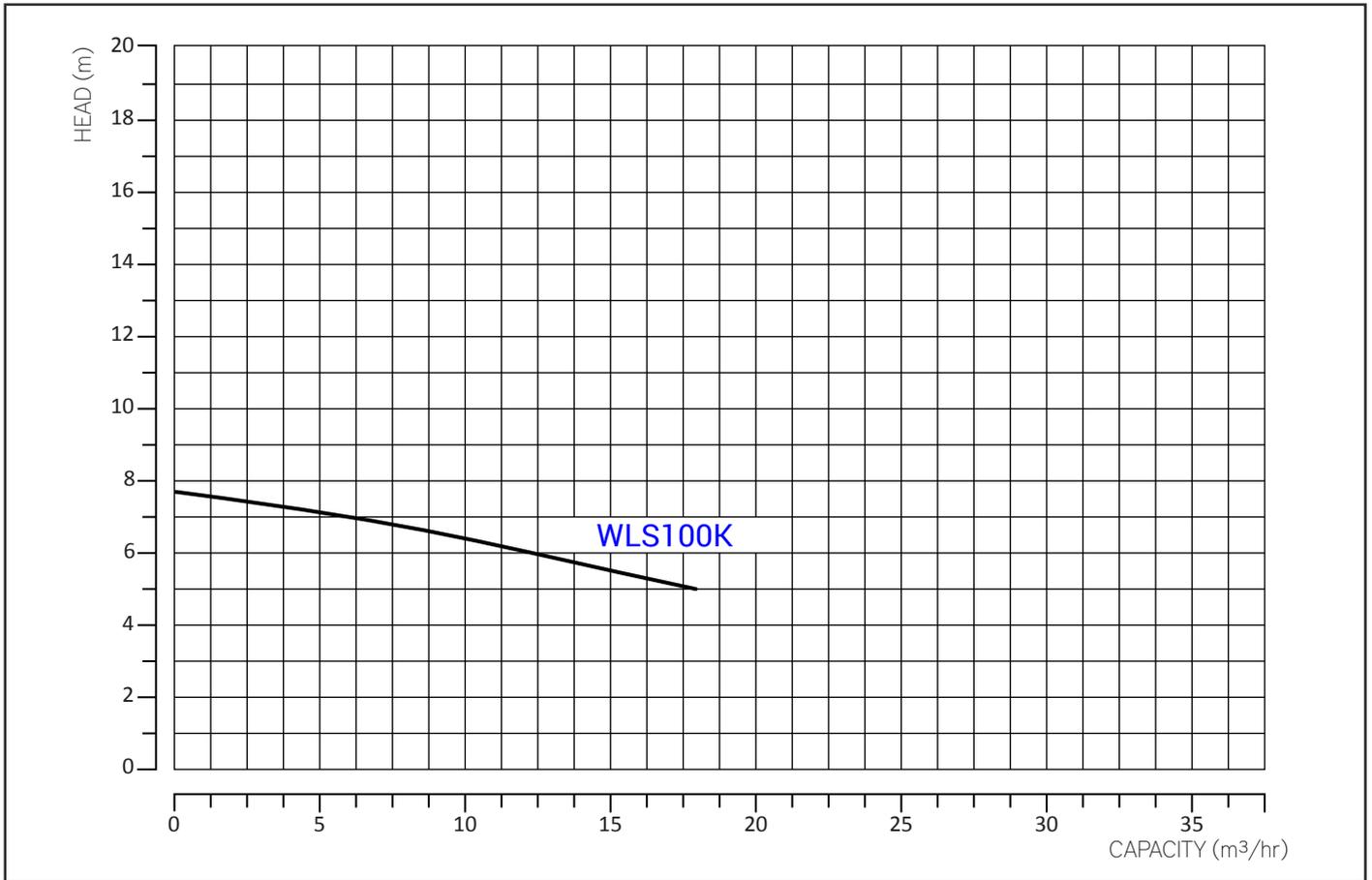
For WLS37K



Model	Power (kW)		Capacity (m³/hr)						
			0	1	2	3	4	5	6
WLS37K	0.37	Head (m)	12	11	10	9.5	8.5	7.5	7

Performance Curve

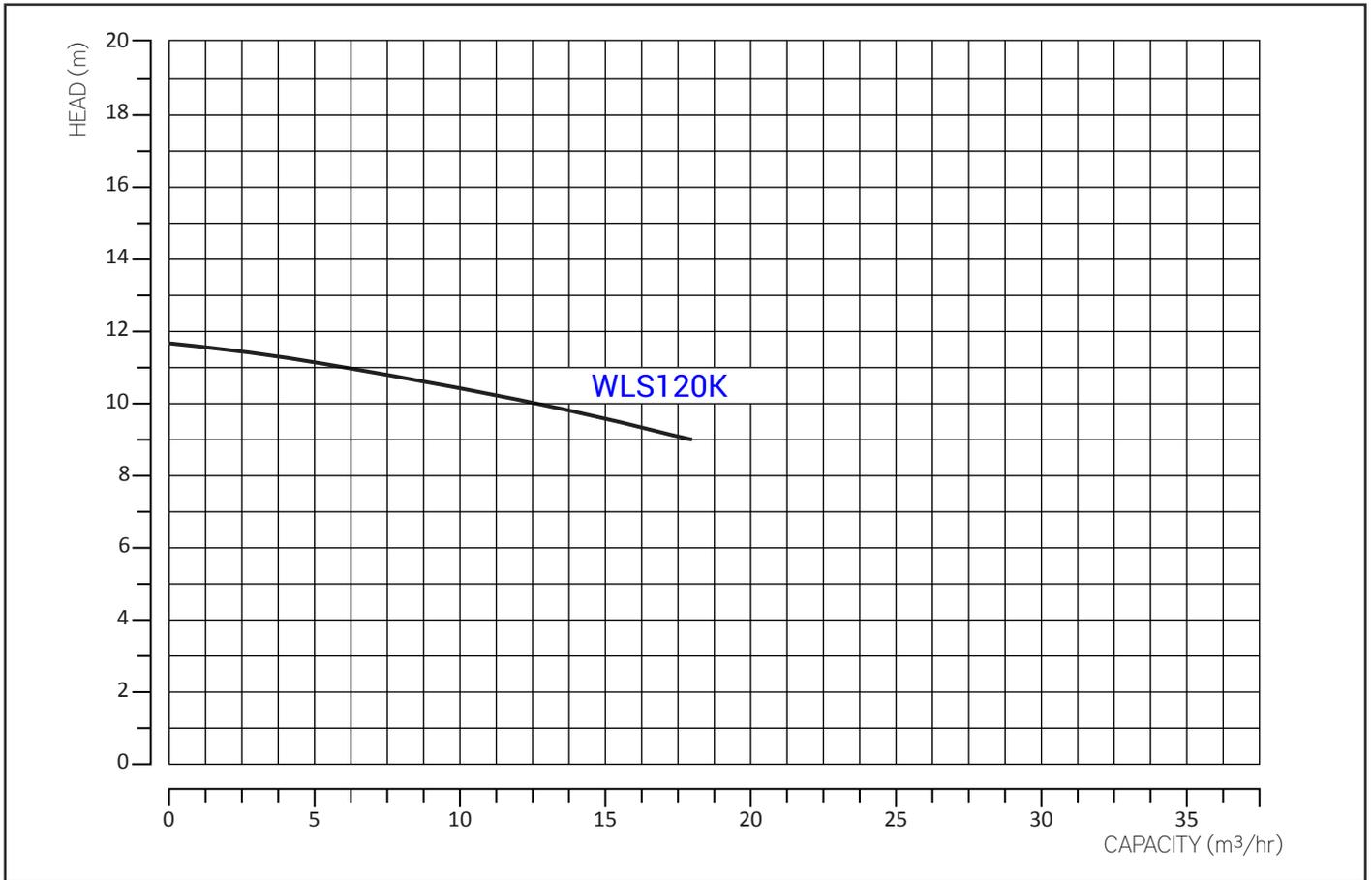
For WLS100K



Model	Power (kW)		Capacity (m³/hr)				
			6	12	18	24	33
WLS100K	0.75	Head (m)	7	6	5	-	-

Performance Curve

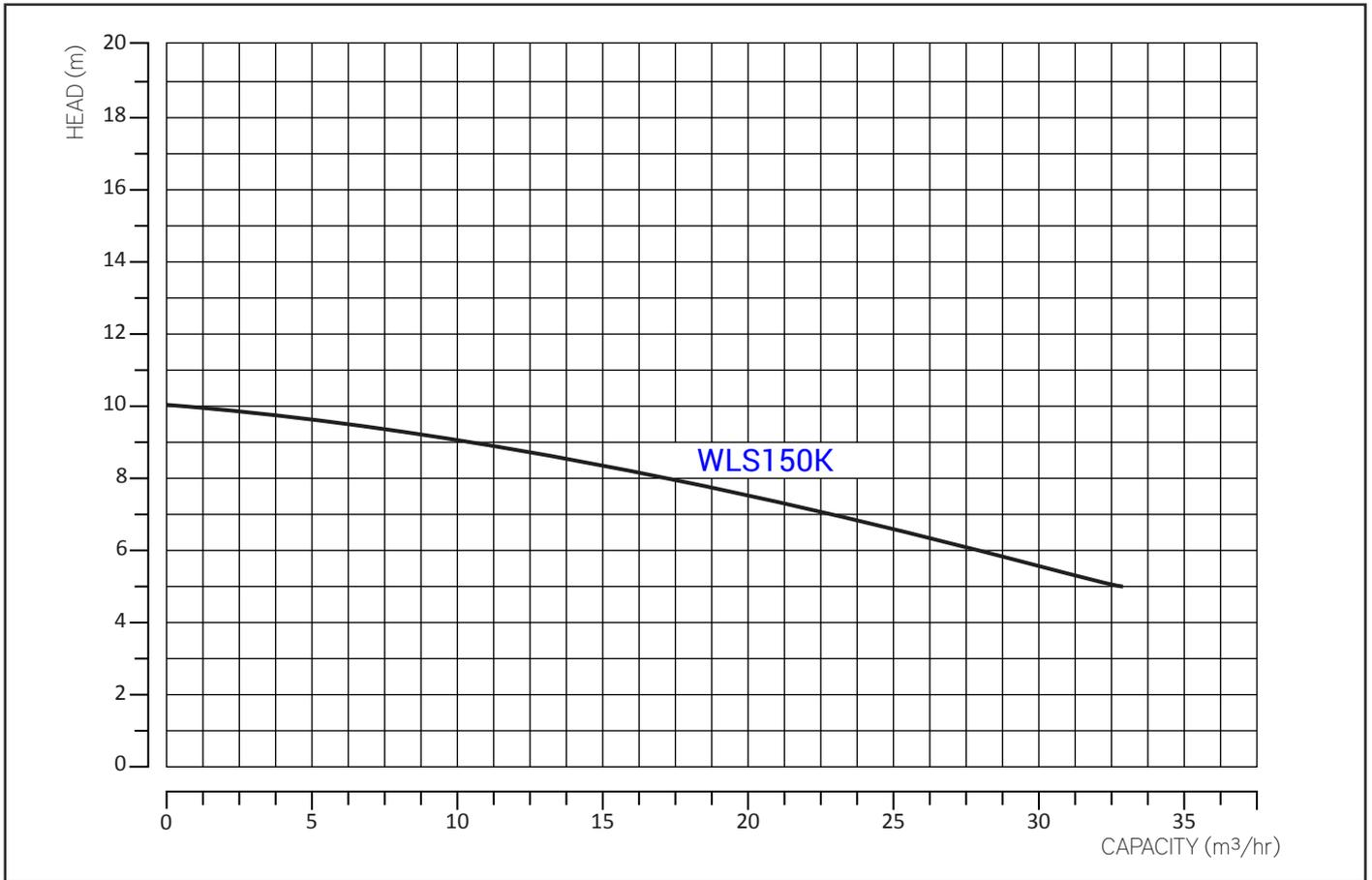
For WLS120K



Model	Power (kW)		Capacity (m³/hr)				
			6	12	18	24	33
WLS120K	0.9	Head (m)	11	10	9	-	-

Performance Curve

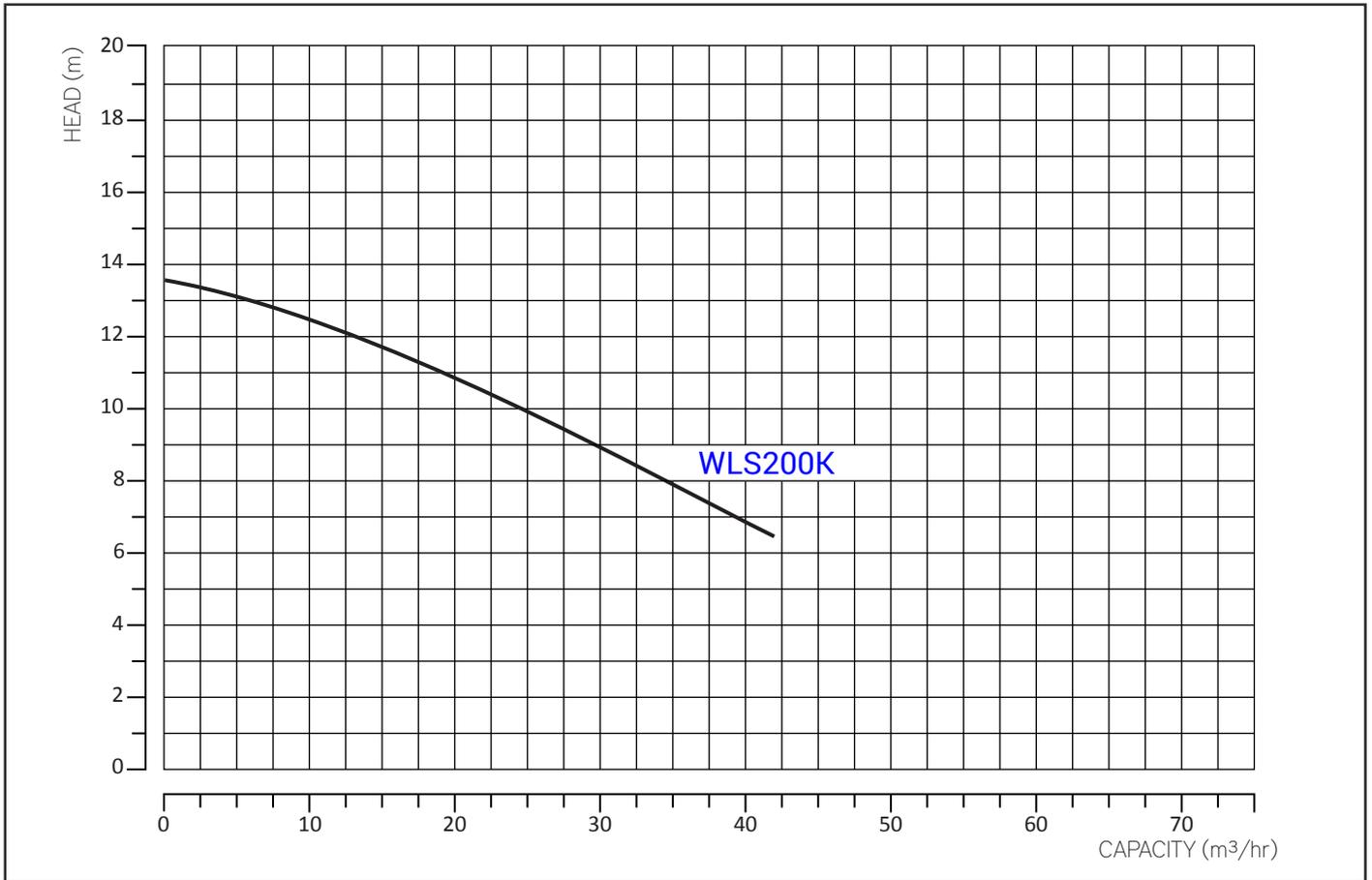
For WLS150K



Model	Power (kW)		Capacity (m³/hr)				
			6	12	18	24	33
WLS150K	1.1	Head (m)	9.5	8.8	7.8	6.7	5

Performance Curve

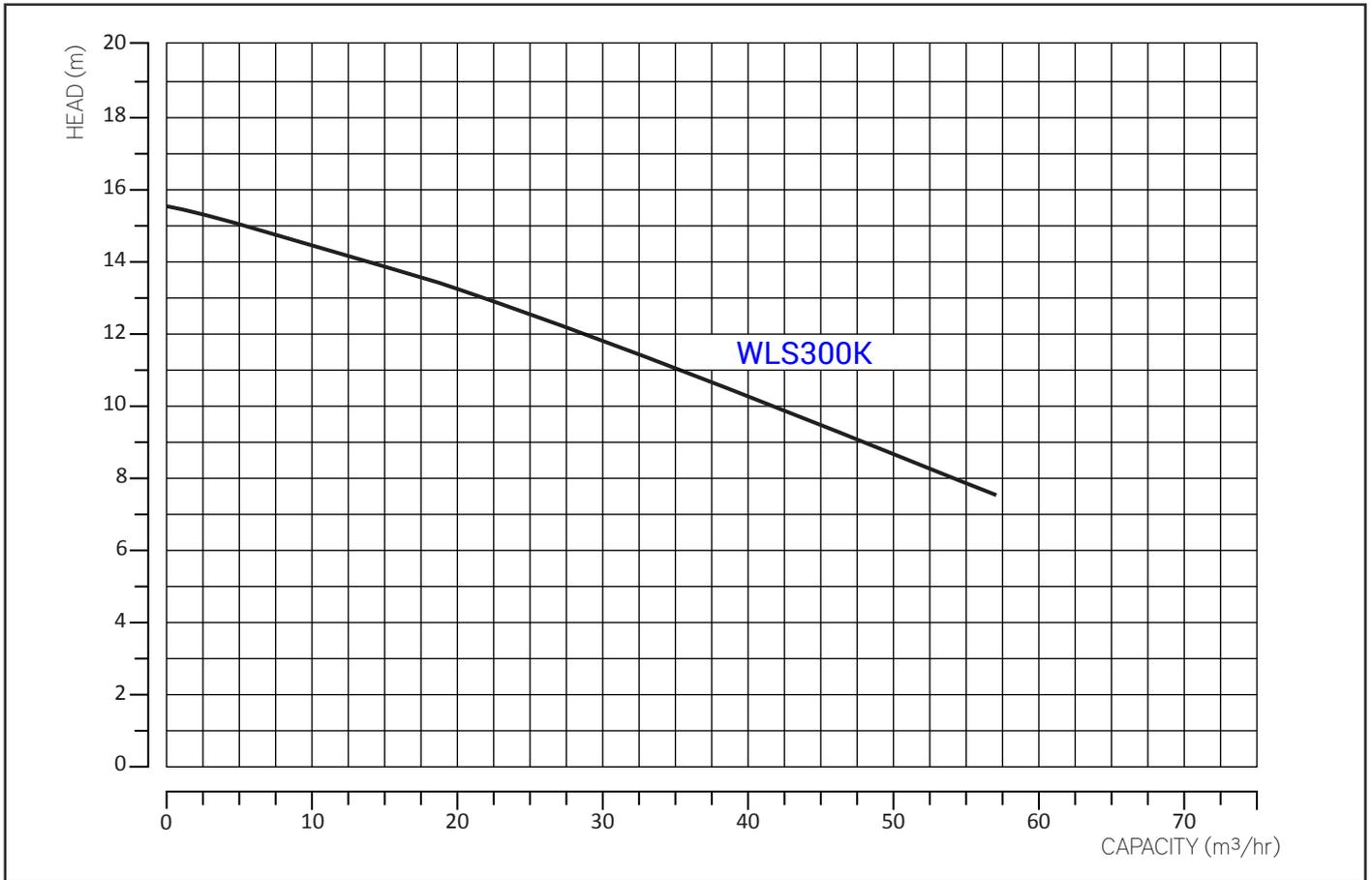
For WLS200K



Model	Power (kW)		Capacity (m³/hr)								
			6	12	18	24	33	42	48	57	66
WLS200K	1.5	Head (m)	12.7	12	11.2	10	8.3	6.5	-	-	-

Performance Curve

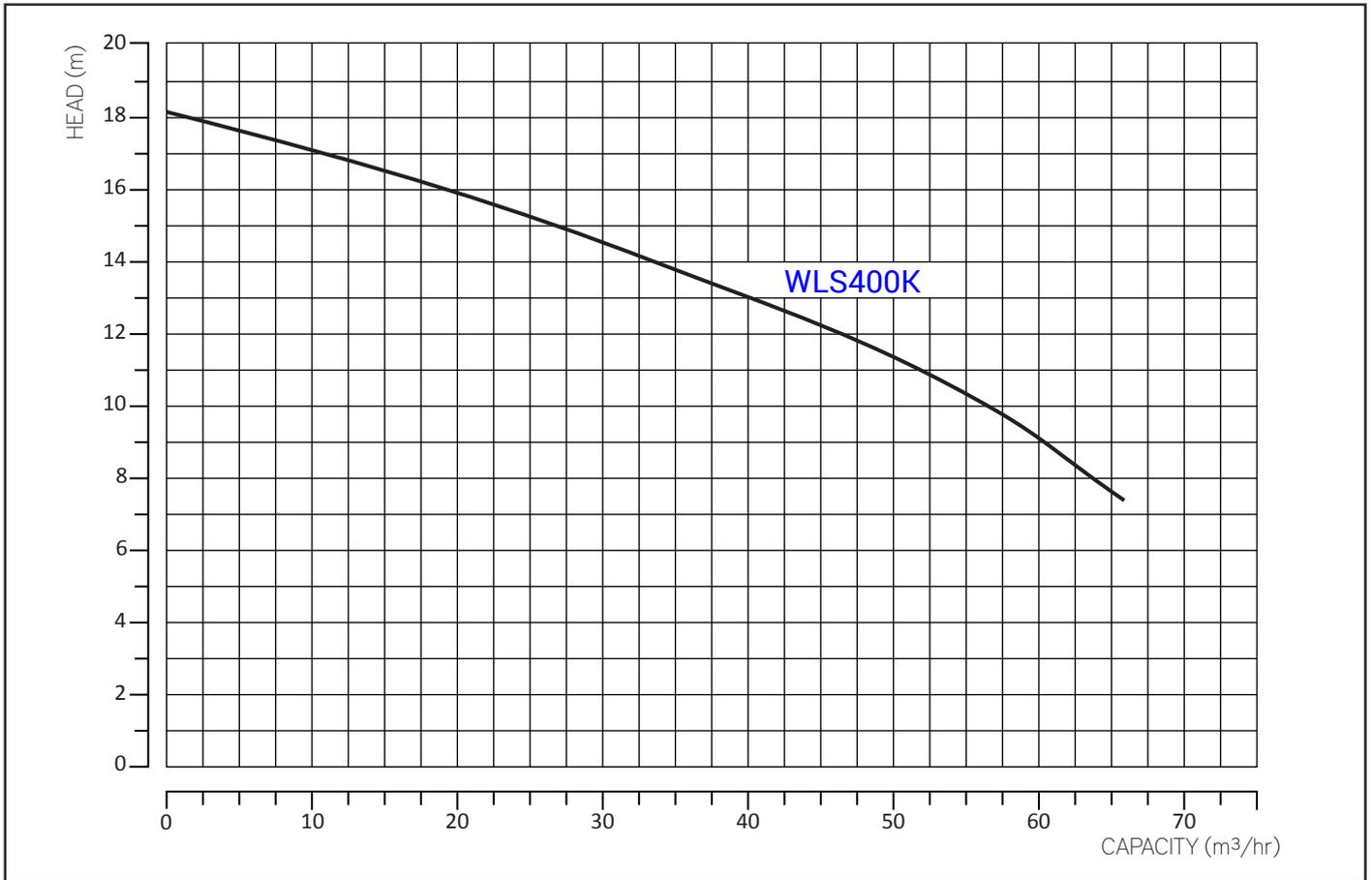
For WLS300K



Model	Power (kW)		Capacity (m³/hr)								
			6	12	18	24	33	42	48	57	66
WLS300K	2.2	Head (m)	15	14	13.5	12.7	11.2	9.8	8.9	7.5	-

Performance Curve

For WLS400K



Model	Power (kW)		Capacity (m³/hr)								
			6	12	18	24	33	42	48	57	66
WLS400K	3.0	Head (m)	17.5	16.8	16	15.2	14	12.5	11.5	9.7	7.5

