



WLS SERIES



STAINLESS STEEL SINGLE STAGE SEMI-OPEN IMPELLER PUMPS



**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

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APPLICATION

The Shindo Stainless Steel Single-Stage Semi-Open Impeller Pumps, WLS Series, are expertly designed for cleaning systems across a variety of production lines, thanks to their ability to handle liquids containing solid suspensions. This versatile series is perfect for a broad range of industrial applications, including food processing, cleaning machinery for bottles, cans, and glassware, and is also effective in transferring dirty water within dishwasher systems.

Below are the key applications where the WLS Series excels:

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

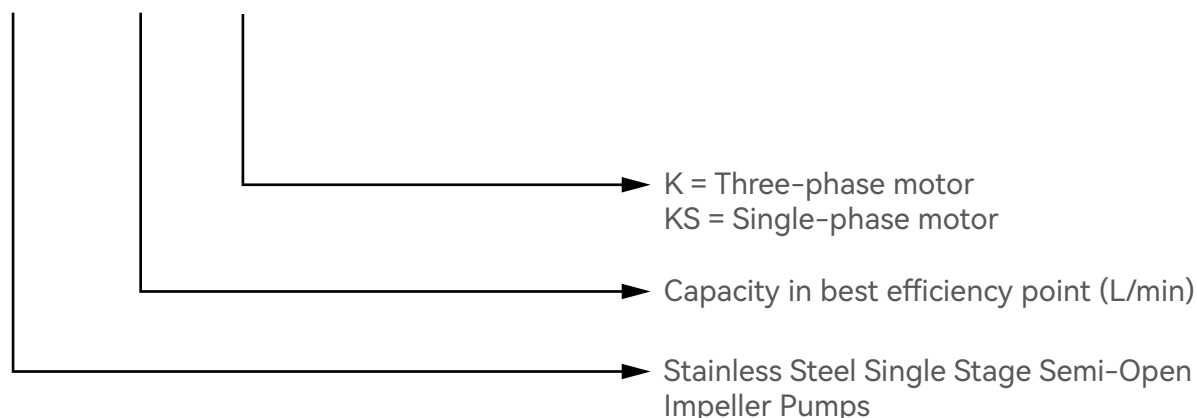
Performance range for WLS series:

- ◎ 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

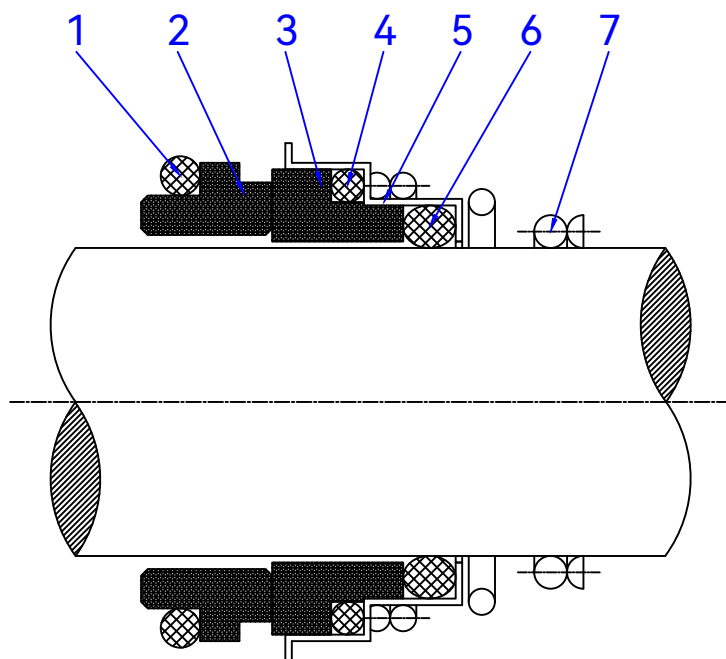
Hydraulic Parts

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

Electric Motor

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

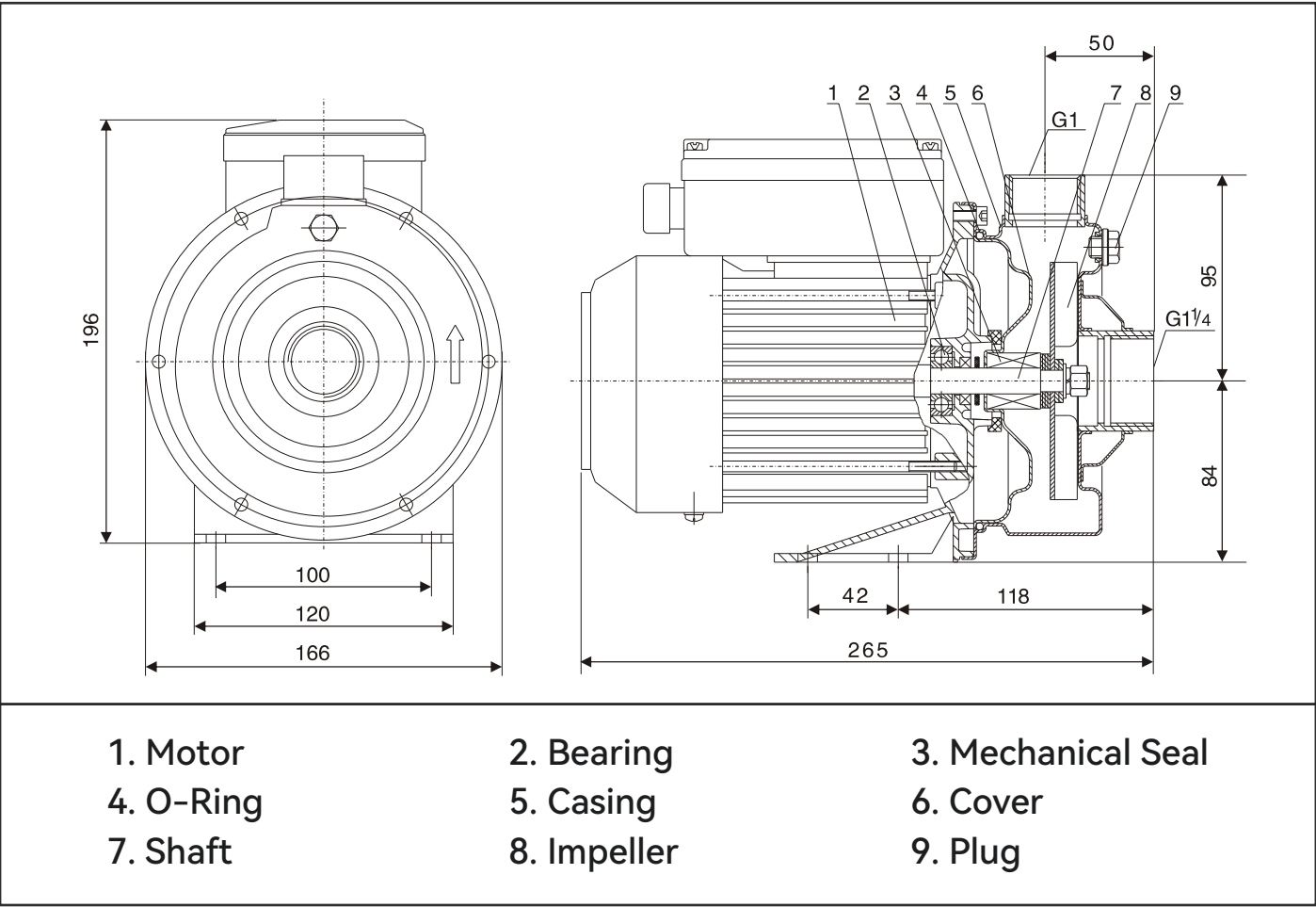
Material of Mechanical Seal



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 & DIMENSION DRAWING

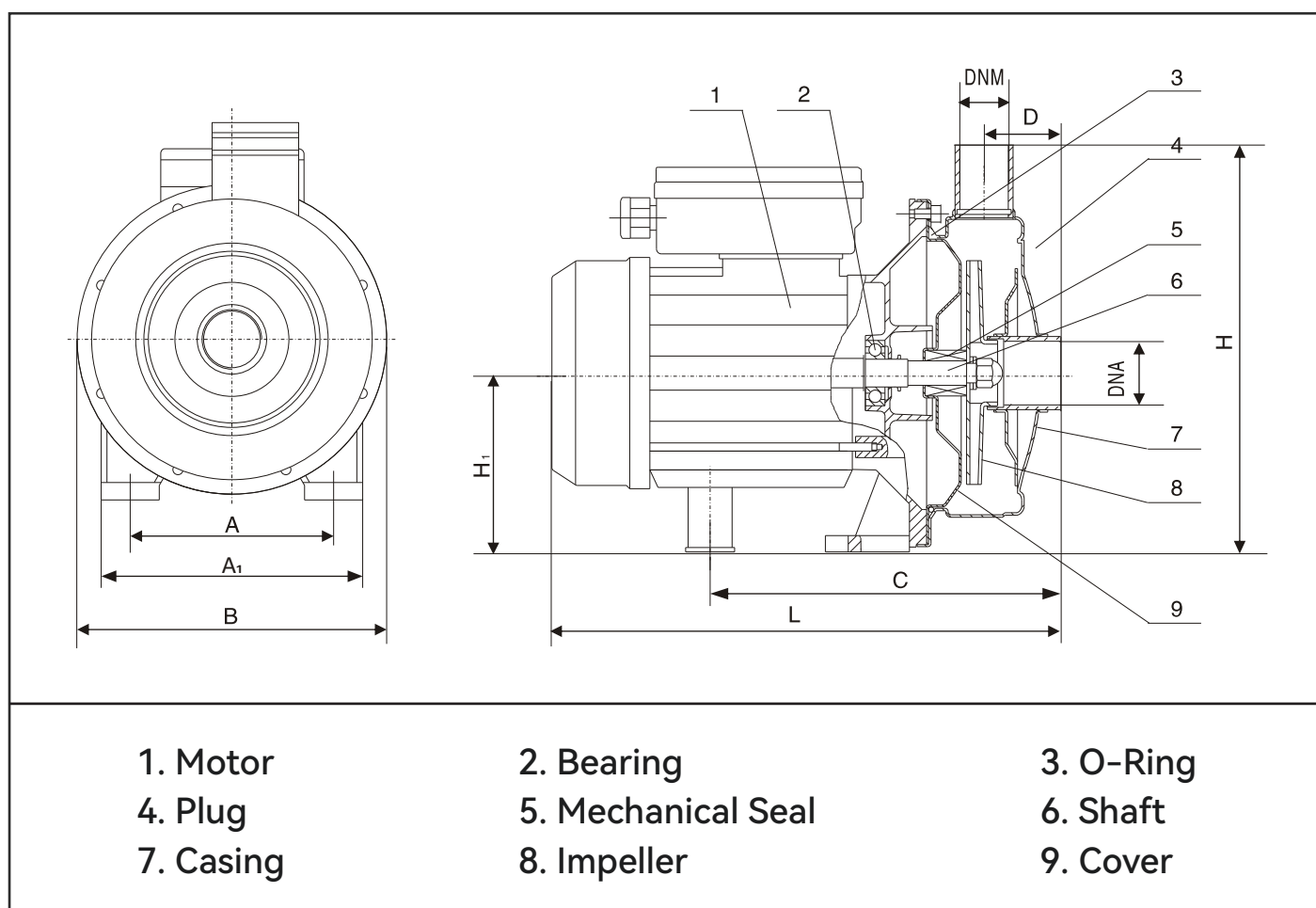
For WLS37K



***All dimensions in mm unless specified

GENERAL ARRANGEMENT & DIMENSION DRAWING

For WLS100K to WLS400K

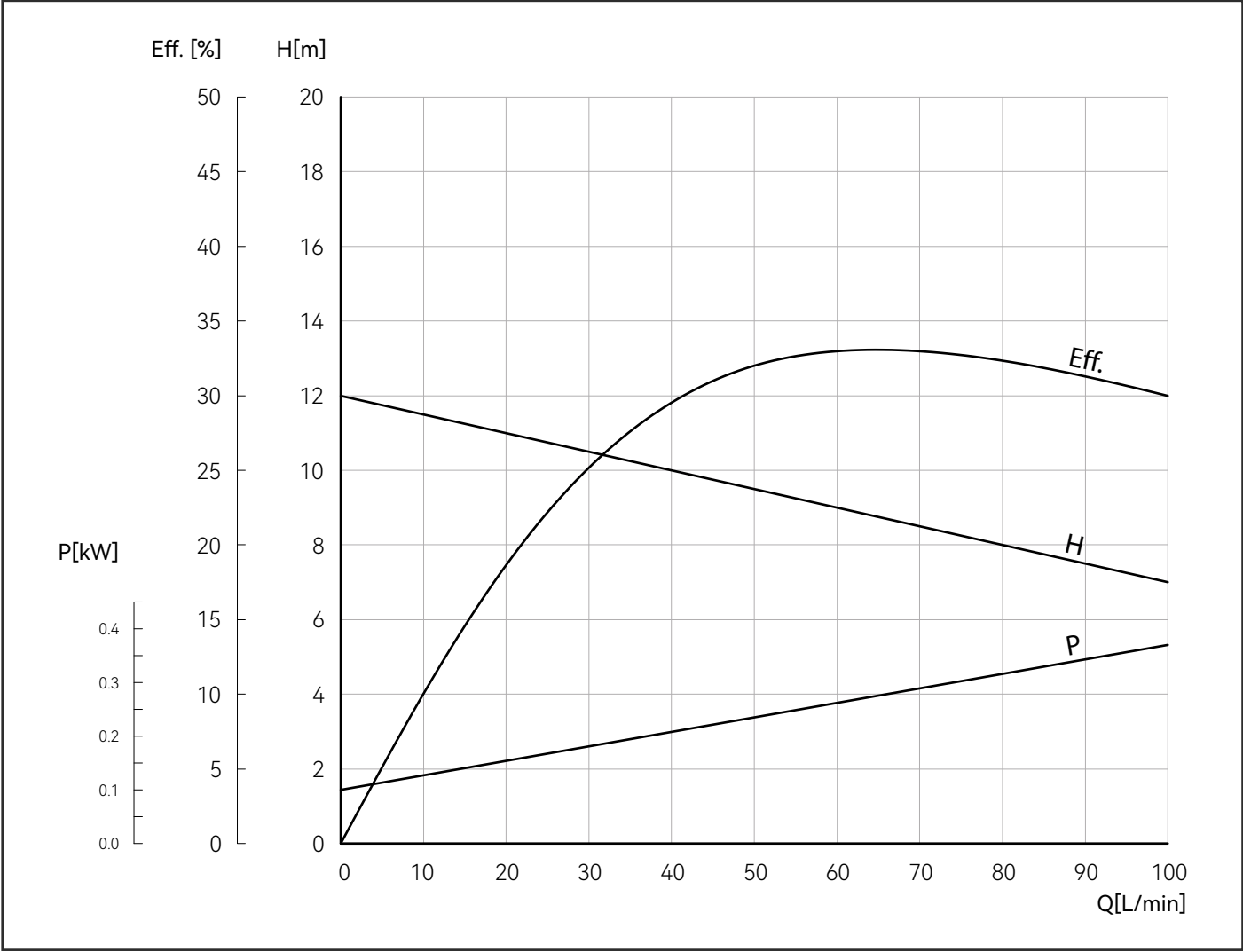


Model	DNA	DNM	A	A ₁	B	C	D	H	H ₁	L
WLS100K	G1½"	G1½"	120	160	170	248.5	74.5	226	108	358
WLS120K	G1½"	G1½"	120	160	170	248.5	74.5	226	108	358
WLS150K	G2"	G2"	140	180	193	256	82	253	120	364
WLS200K	G2"	G2"	140	180	193	256	82	253	120	364
WLS300K	G2½"	G2"	140	180	193	247	82	253	120	364
WLS400K	G2½"	G2"	140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

***All dimensions in mm unless specified

PERFORMANCE CURVE

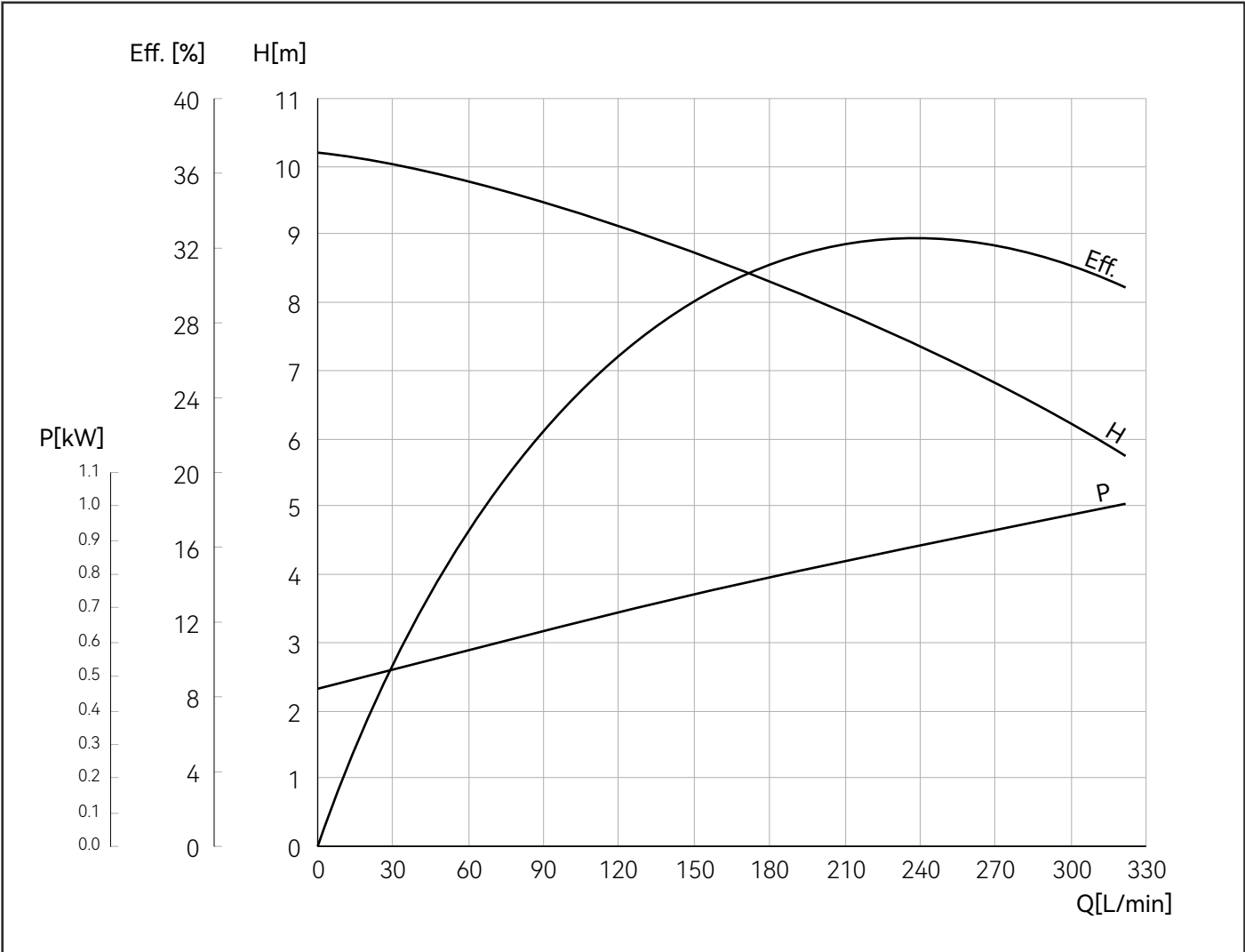
FOR WLS37K



Model	Power (kW)		Capacity (L/min)						
			0	20	30	50	60	80	100
WLS37K	0.37	Head (m)	12	11	10.5	9.3	9	80	7

PERFORMANCE CURVE

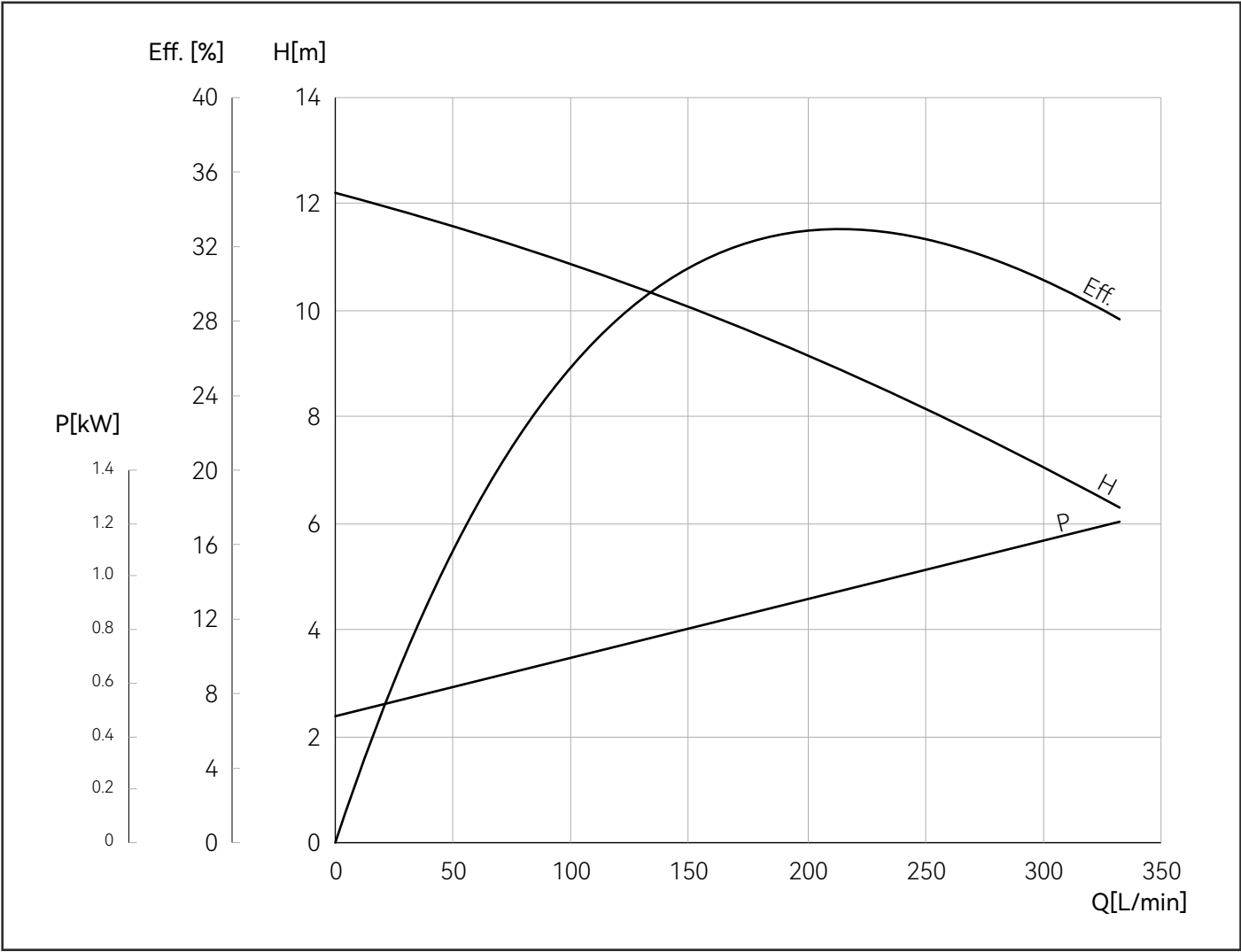
FOR WLS100K



Model	Power (kW)		Capacity (L/min)						
			0	60	120	180	240	300	320
WLS100K	0.75	Head (m)	10.2	9.7	9.1	8.3	7.3	6.2	5.7

PERFORMANCE CURVE

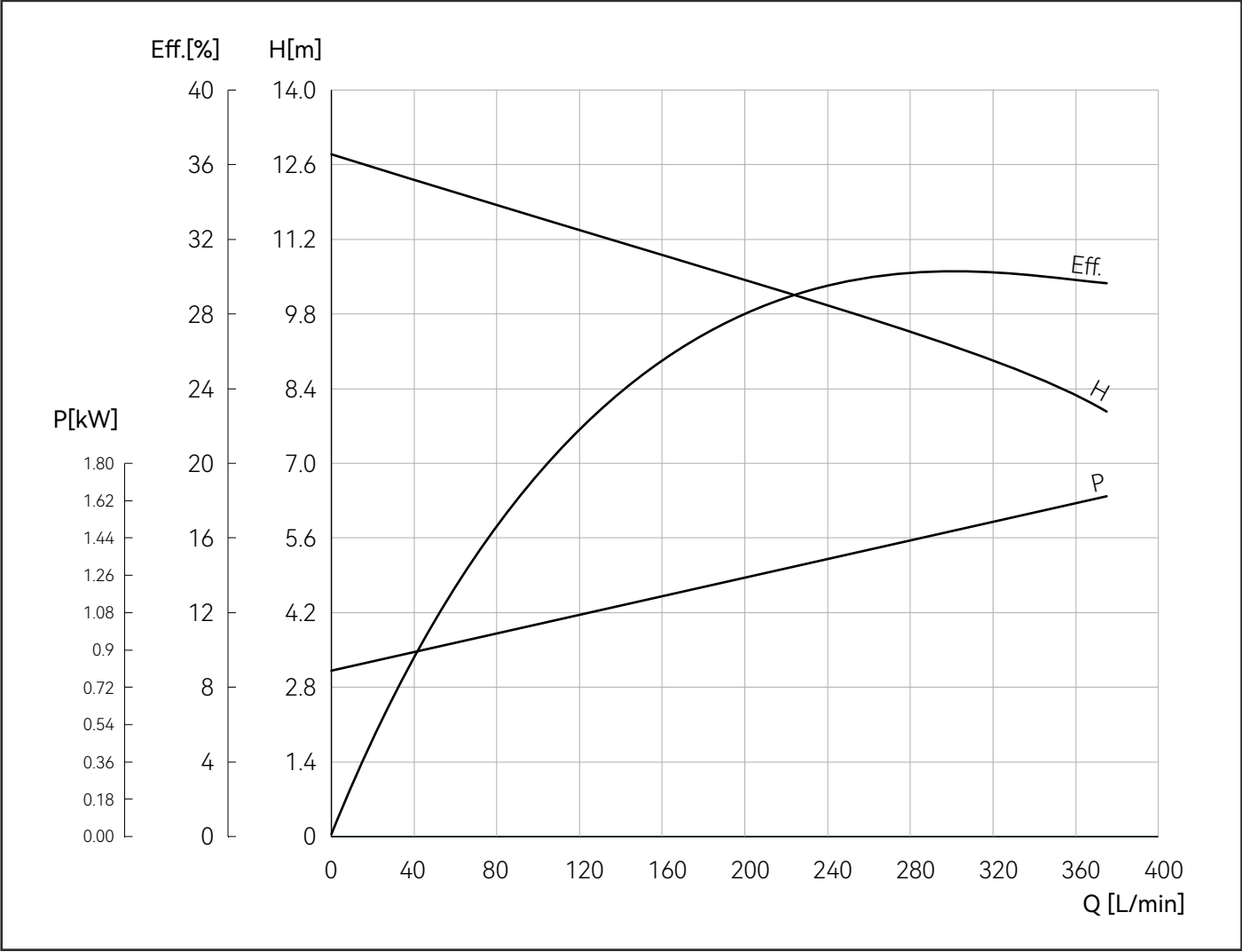
FOR WLS120K



Model	Power (kW)		Capacity (L/min)						
			0	50	100	200	250	300	330
WLS120K	0.9	Head (m)	12.2	11.5	10.8	9.1	8.1	7	6.3

PERFORMANCE CURVE

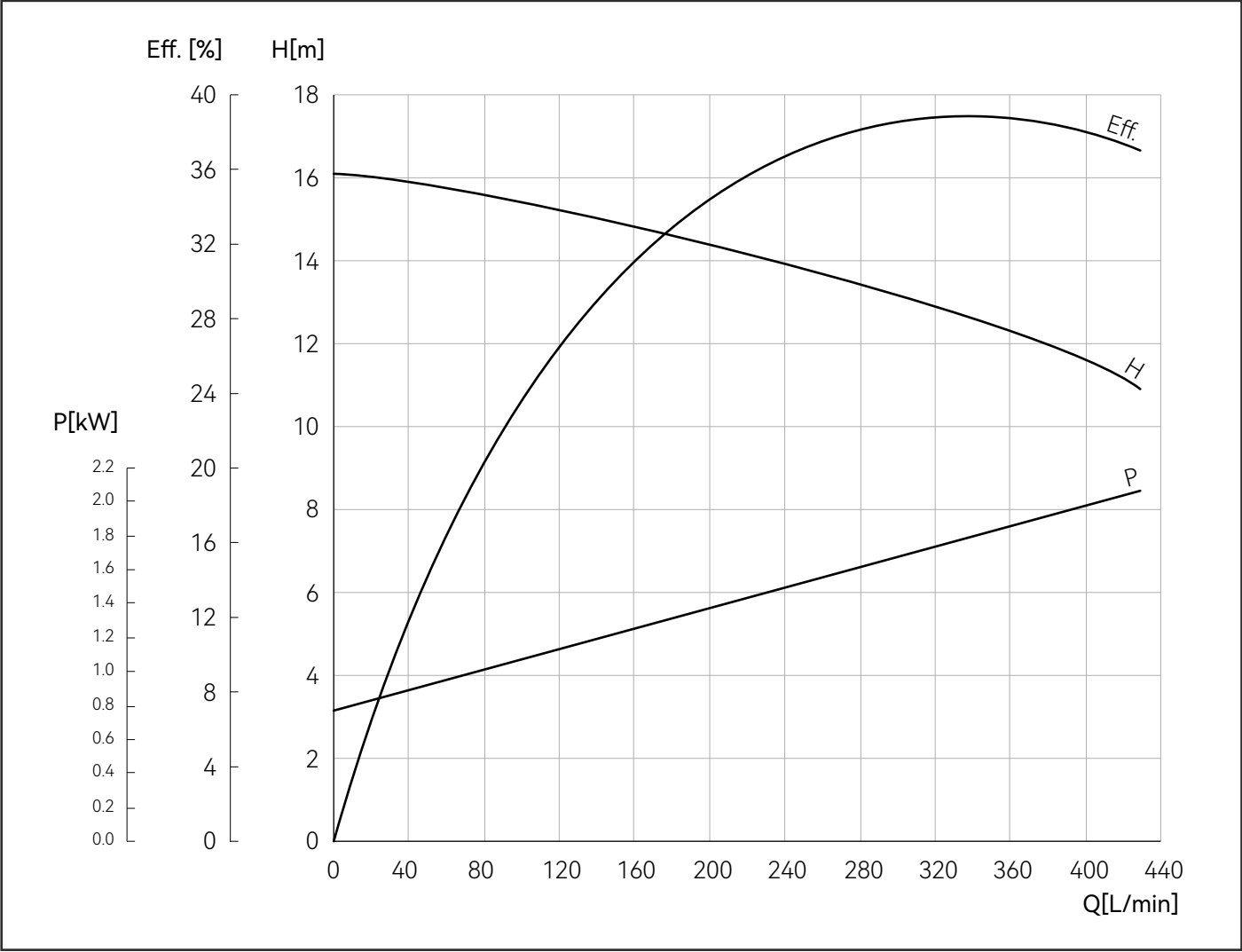
FOR WLS150K



Model	Power (kW)		Capacity (L/min)						
			0	40	120	200	280	360	375
WLS150K	1.1	Head (m)	12.8	12.3	11.3	10.4	9.4	8.2	7.9

PERFORMANCE CURVE

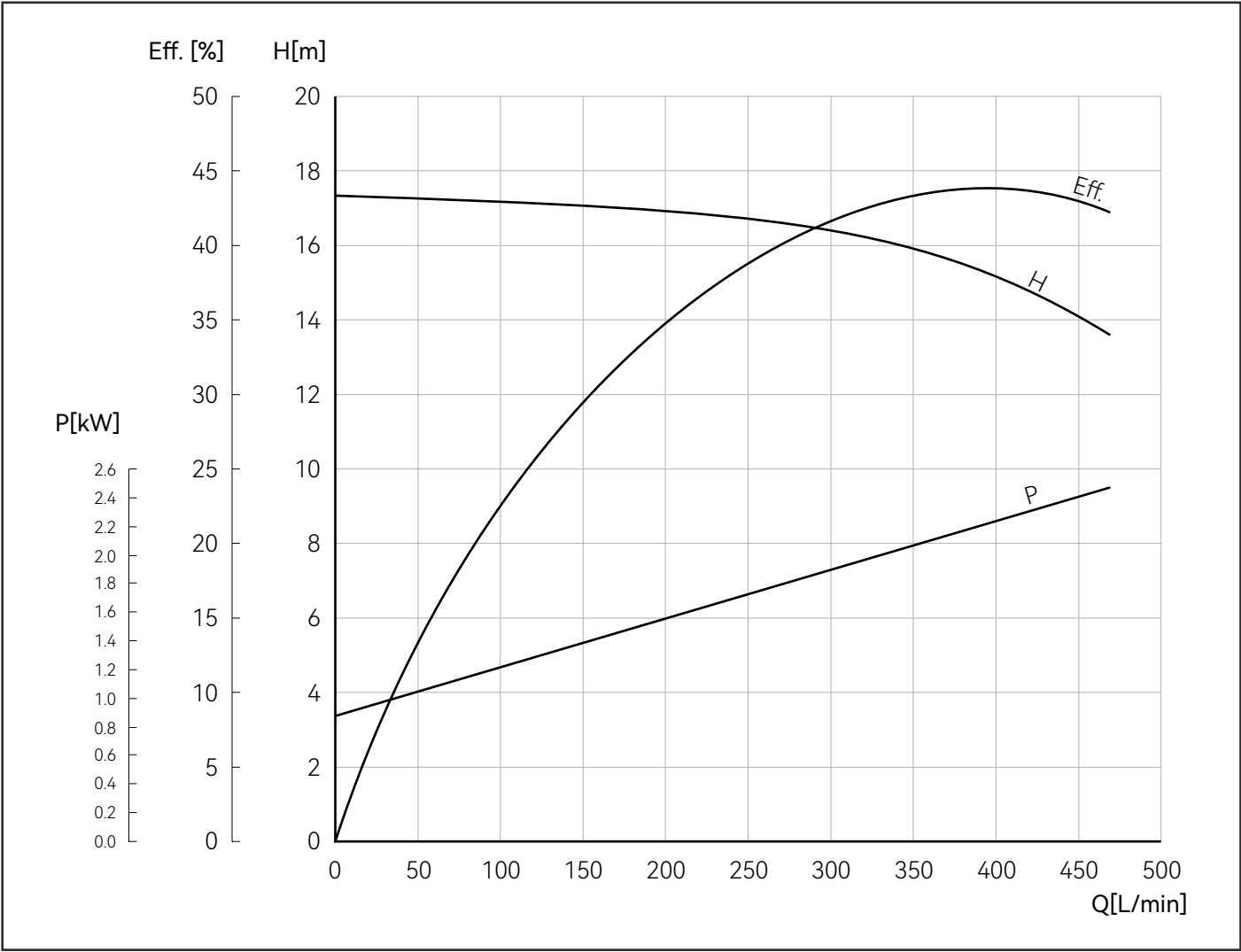
FOR WLS200K



Model	Power (kW)		Capacity (L/min)						
			0	80	160	240	320	400	430
WLS200K	1.5	Head (m)	16.1	15.5	14.8	13.9	12.8	11.6	10.9

PERFORMANCE CURVE

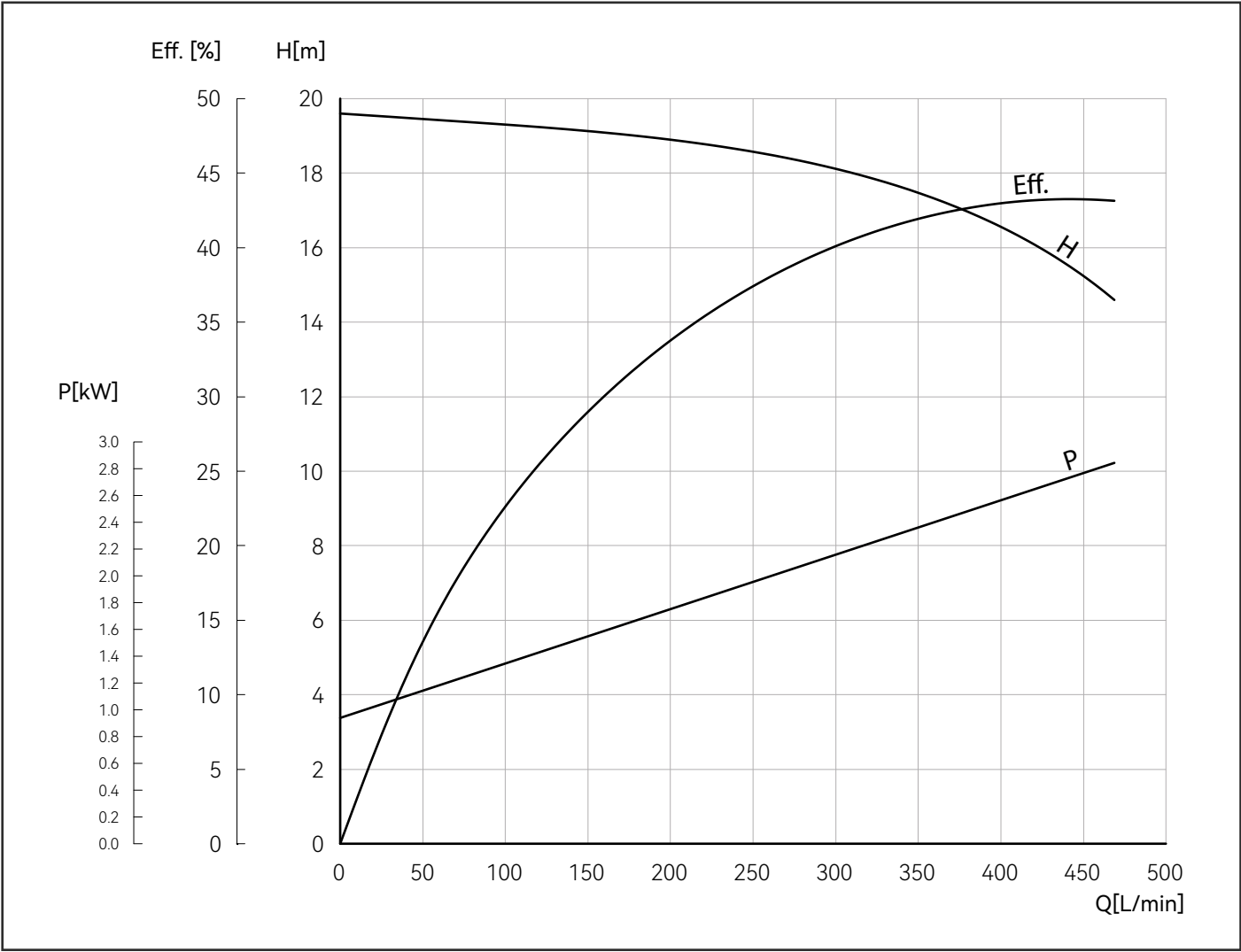
FOR WLS300K



Model	Power (kW)		Capacity (L/min)						
			0	50	150	250	350	450	470
WLS300K	2.2	Head (m)	17.3	17.2	17	16.7	15.9	14.1	13.6

PERFORMANCE CURVE

FOR WLS400K



Model	Power (kW)		Capacity (L/min)						
			0	50	150	250	350	450	470
WLS400K	3.0	Head (m)	19.6	19.4	19.1	18.5	17.4	15.2	14.6

