



WALRUS
PUMP

TPK Series

Immersible Pump



**Better Life
Through Innovation**

Content

General Data	03
Performance Range	04
Sectional Drawing	05
Performance Curves/Technical Data	
TPK 2T	06
TPK 4T	08

TPK Series Immersible Pump

50 Hz

Power: 0.22 - 1.3 kW
Head: Up to 70 M
Flow: Up to 90 L/min
Outlet: 3/4"

60 Hz

Power: 0.28 - 1.58 kW
Head: Up to 100 M
Flow: Up to 100 L/min
Outlet: 3/4"



Construction Industry



Agriculture & Fishing Industry



Manufacturing Industry



Electricity & New Energy Industry



Entertainment & Leisure Industry



Accommodation & Food Service Industry



Wholesale & Retail Industry



Water Supply & Pollution Control



Service Industry

Product Features

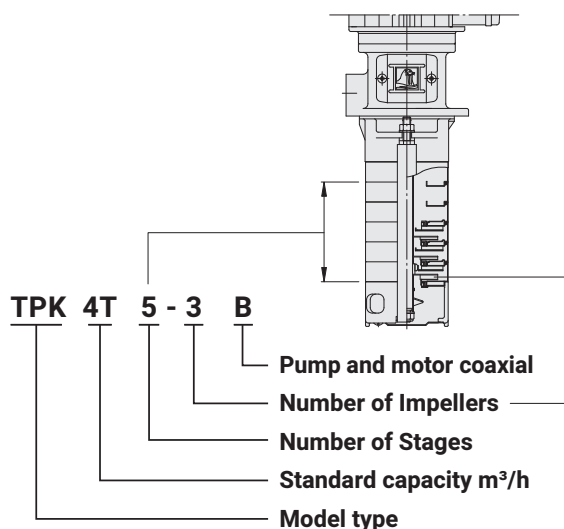
- Immersible vertical multistage centrifugal pump, self-priming, stub pump shaft per coupling connect with motor.
- Main working parts made by stainless steel.

Applications

The WALRUS TPK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

- Industrial circulation system
- Washing/cleaning system
- Filtration system

Model Code



Operating Conditions

- Ambient temperature: Max. +40°C
- Liquid temperature range: +0°C ~ +90°C
- Operating pressure: Max. 10 kg/cm²
- Submerged depth: Min. 40 mm

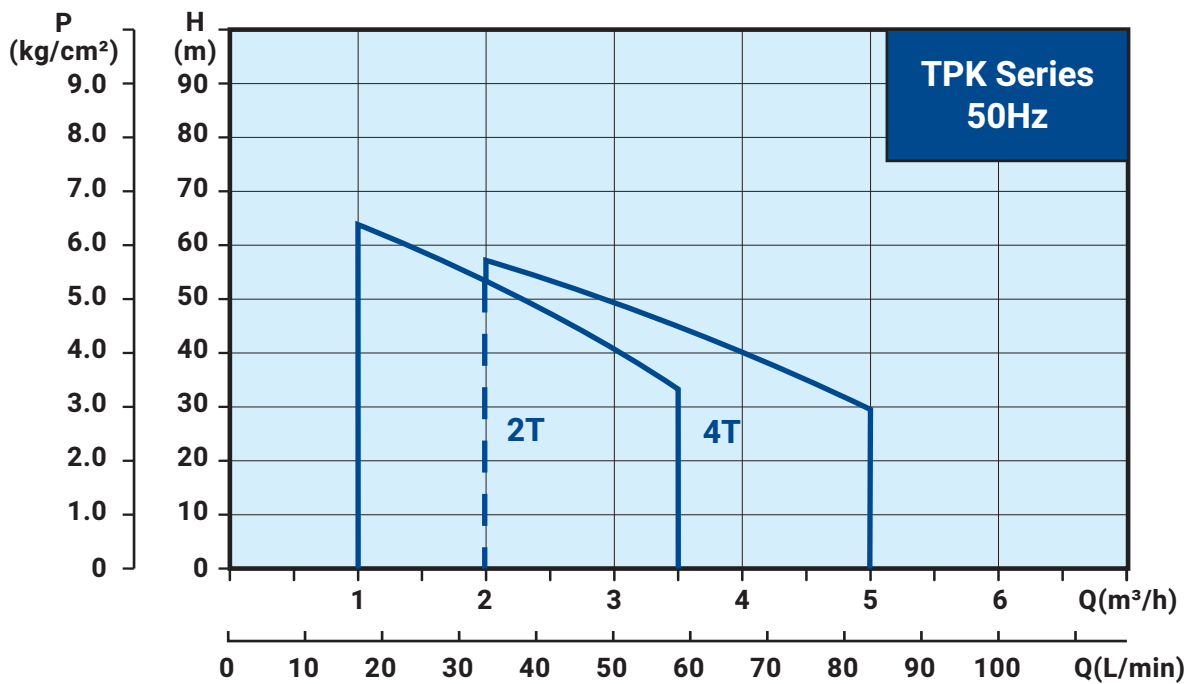
Motor

- Enclosure class: IP54
- Insulation class: F.
- Frequency range: 50/60 Hz
- Nominal speed: 2900/3500 rpm
- Voltages Code:

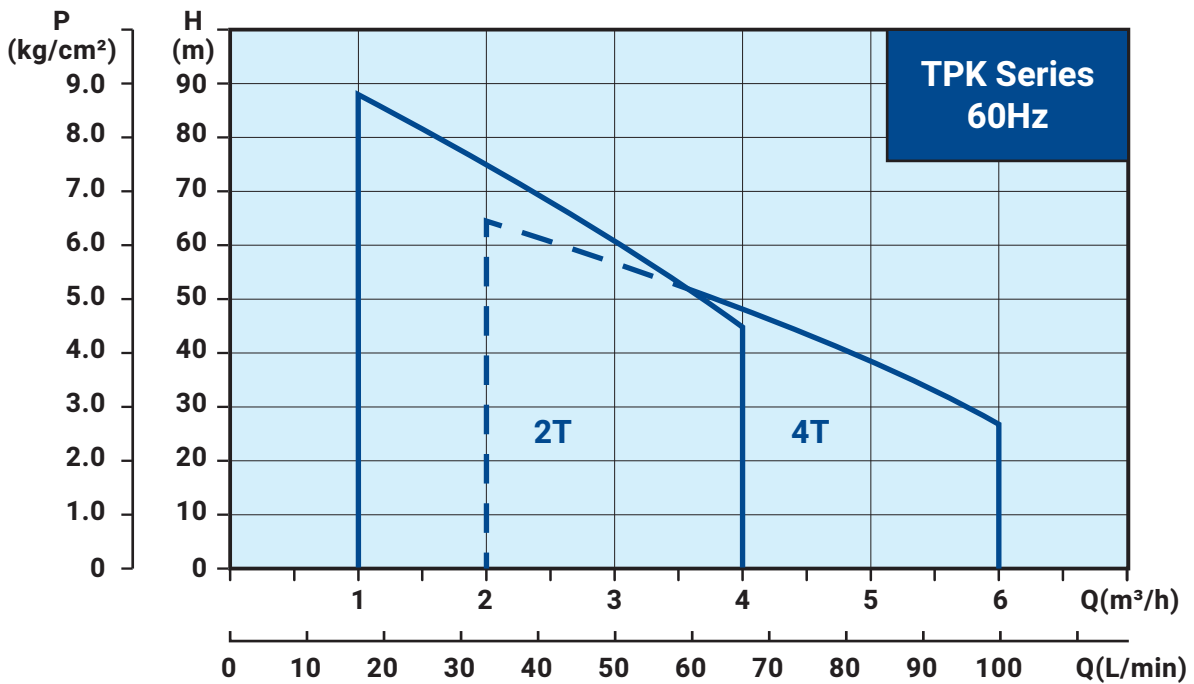
Code	PH	50Hz	60Hz
53Q	3	200-240/380-440V	-
A3Z*	3	200-255/380-440V	200-255/380-480V
A3U*	3	200-240/380-415V	200-240/380-440V

* The motor can be use in both 50/60Hz.

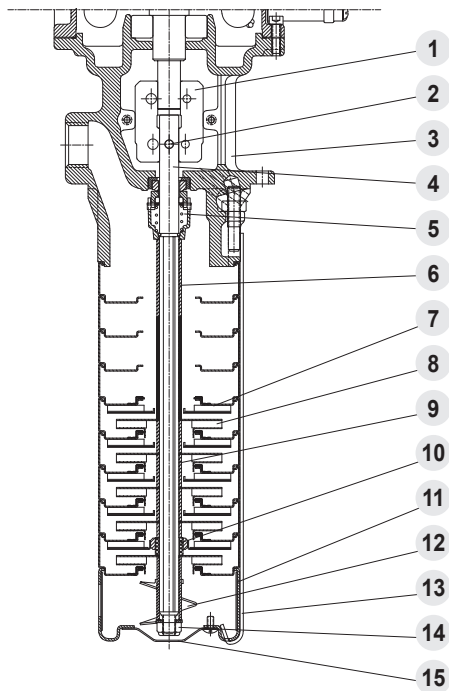
Performance Curve, 50Hz



Performance Curve, 60Hz



Sectional Drawing



Materials

NO.	Part Name	Material
1	Coupling	ADC 6
2	Shaft pin	SUS 304
3	Pump head	FCD 45
4	Shaft	SUS 304
5	Mechanical Seal	HSSH
6	Sleeve	SUS 304
7	Intermediate chamber	SUS 304
8	Impeller	SUS 304
9	Sleeve (impeller)	SUS 304
10	Bearing ring	SiC
11	Suction interconnector	SUS 304
12	Priming screw	SUS 304
13	Strap	SUS 304
14	Lock Nut	SUS 316
15	Filter	SUS 304

Options on Request

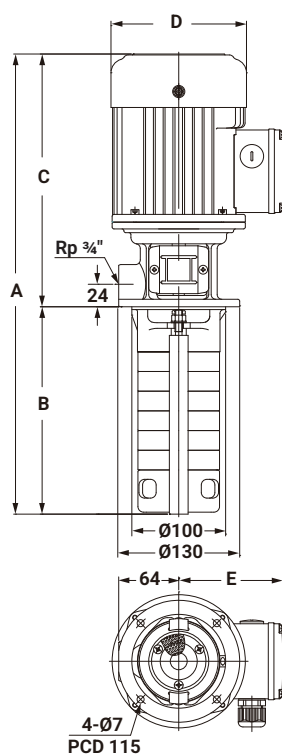
■ Special mechanical seal

Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
HSSH	(S)Silicium carbide/ (S)Silicium carbide	(H) HNBR (V) Viton (E) EPDM
HSSV		
HSSE		
HGSH	(G)Carbon/ (S)Silicium carbide	(H) HNBR (V) Viton (E) EPDM
HGSV		
HGSE		

Electrical Data

Standard Model	PH Ø	Voltage code	Cycle Hz	Volts V	Input kW	Output kW	Ampere A
TPK 2T3-1B	3	A3Z	50	200-255 / 380-440	0.22	0.15	0.9 / 0.6
			60	200-255 / 380-480	0.28	0.19	0.9 / 0.6
TPK 2T3-3B	3	A3Z	50	200-255 / 380-440	0.28	0.19	0.9 / 0.7
			60	200-255 / 380-480	0.37	0.25	1.1 / 0.6
TPK 2T5-5	3	A3Z	50	200-255 / 380-440	0.45	0.31	2.6 / 1.5
			60	200-255 / 380-480	0.60	0.41	2.2 / 1.5
TPK 2T8-8	3	A3Z	50	200-255 / 380-440	0.58	0.40	2.9 / 1.7
			60	200-255 / 380-480	0.82	0.56	2.7 / 1.6
TPK 2T11-11	3	A3Z	50	200-255 / 380-440	0.70	0.48	3.2 / 1.8
			60	200-255 / 380-480	1.05	0.72	3.5 / 1.9
TPK 2T12-12	3	A3Z	50	200-255 / 380-440	0.78	0.53	3.5 / 1.9
			60	200-255 / 380-480	1.16	0.79	3.6 / 2.0
TPK 2T15-15	3	A3U	50	200-240 / 380-415	0.85	0.58	3.0 / 1.8
			60	200-240 / 380-440	1.30	0.89	4.1 / 2.3
TPK 2T17-17	3	A3U	50	200-240 / 380-415	0.95	0.65	3.6 / 2.1
			60	200-240 / 380-440	1.45	0.99	5.0 / 2.7

Dimensions



Model	A mm	B mm	C mm	D mm	E mm	N.W. kg	
TPK 2T3-1B	405	179	226	123	101	8.6	30
TPK 2T5-1B	447	221	226	123	101	8.7	24
TPK 2T3-3B	405	179	226	123	101	8.7	30
TPK 2T5-3B	447	221	226	123	101	8.9	24
TPK 2T8-3B	510	284	226	123	101	9.2	15
TPK 2T11-3B	573	347	226	123	101	9.6	15
TPK 2T5-5	491	221	270	144.5	111	12.1	24
TPK 2T8-5	554	284	270	144.5	111	12.4	15
TPK 2T10-5	596	326	270	144.5	111	12.6	15
TPK 2T11-5	617	347	270	144.5	111	12.7	15
TPK 2T15-5	701	431	270	144.5	111	13.0	15
TPK 2T8-8	554	284	270	144.5	111	12.7	15
TPK 2T11-8	617	347	270	144.5	111	13.0	15
TPK 2T11-11	657	347	310	144.5	111	14.3	15
TPK 2T12-12	678	368	310	144.5	111	14.4	15
TPK 2T15-12	741	431	310	144.5	111	14.5	15
TPK 2T15-15	741	431	310	144.5	111	15.0	15
TPK 2T19-15	825	515	310	144.5	111	15.4	15
TPK 2T17-17	783	473	310	144.5	111	15.6	15
TPK 2T19-17	825	515	310	144.5	111	15.8	15

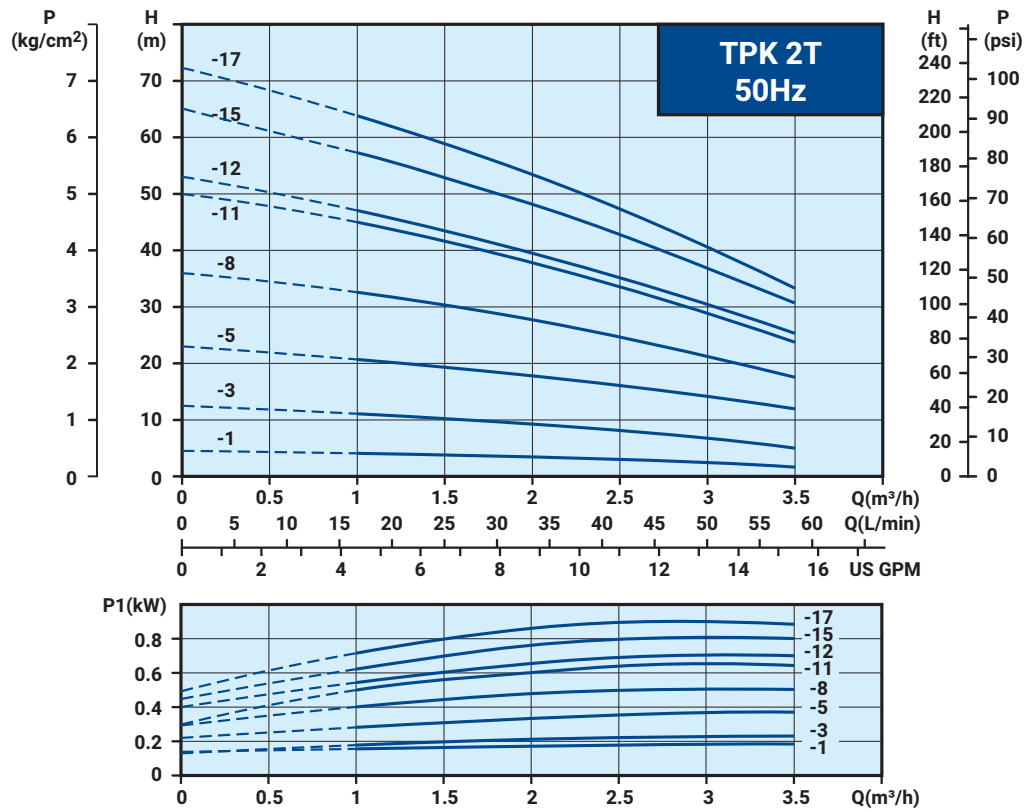
B Model without coupling design.

Maximum 19 Stages

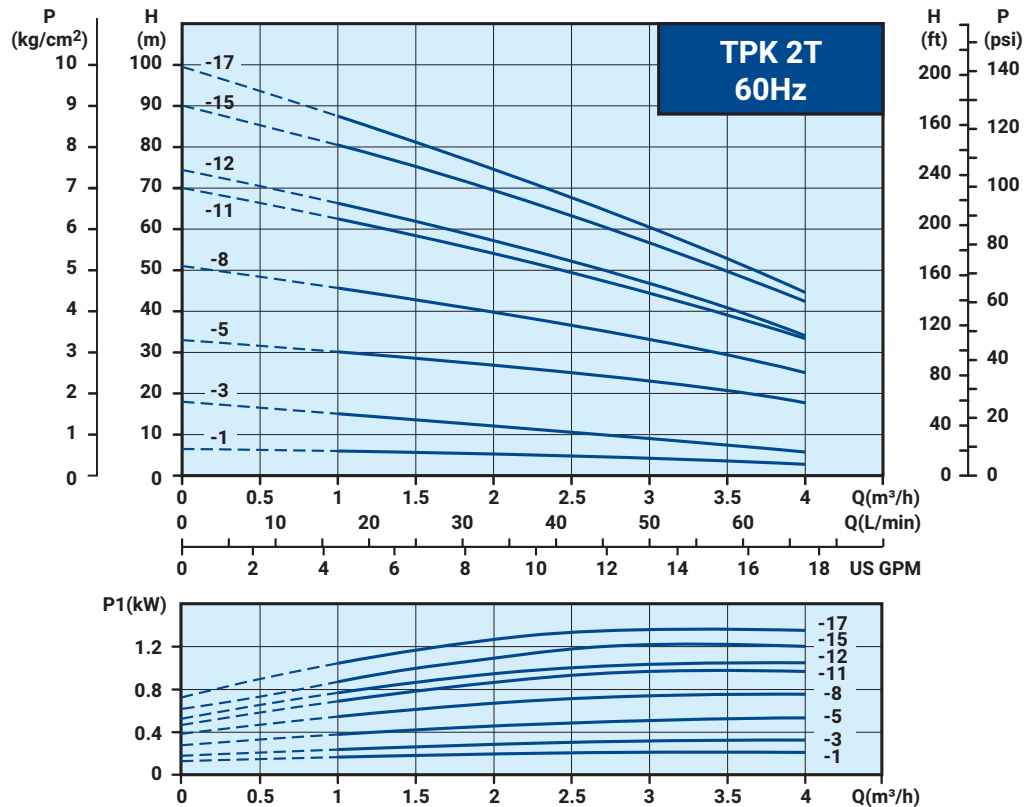
The stages that non-coupling models can be extended to 3-1B , 5-1B , 8-1B , 11-1B , 3-3B , 5-3B , 8-3B , 11-3B

The stages that coupling models can be extended to 5 , 8 , 10 , 11 , 12 , 15 , 17 , 19

Performance Curve, 50Hz



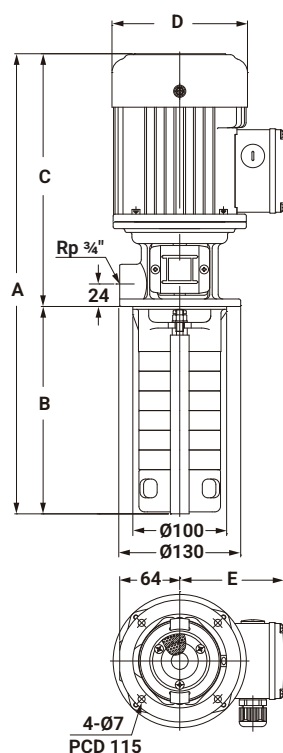
Performance Curve, 60Hz



Electrical Data

Standard Model	PH Ø	Voltage code	Cycle Hz	Volts V	Input kW	Output kW	Ampere A
TPK 4T3-1B	3	A3Z	50	200-255 / 380-440	0.25	0.17	1.0 / 0.6
			60	200-255 / 380-480	0.30	0.20	1.0 / 0.6
TPK 4T3-3B	3	A3Z	50	200-255 / 380-440	0.43	0.29	2.8 / 1.4
			60	200-255 / 380-480	0.55	0.38	2.2 / 1.2
TPK 4T5-5	3	A3Z	50	200-255 / 380-440	0.58	0.40	2.9 / 1.7
			60	200-255 / 380-480	0.90	0.61	2.7 / 1.6
TPK 4T7-7	3	A3Z	50	200-255 / 380-440	0.68	0.46	3.2 / 1.8
			60	200-255 / 380-480	1.00	0.68	3.4 / 1.9
TPK 4T8-8	3	A3Z	50	200-255 / 380-440	0.75	0.51	3.5 / 1.9
			60	200-255 / 380-480	1.16	0.79	3.6 / 2.0
TPK 4T10-10	3	A3Z	50	200-255 / 380-440	0.90	0.61	4.7 / 2.6
			60	200-255 / 380-480	1.42	0.97	4.7 / 2.6
TPK 4T11-11	3	A3U	50	200-240 / 380-415	0.95	0.65	3.6 / 2.1
			60	200-240 / 380-440	1.45	0.99	5.0 / 2.7
TPK 4T12-12	3	A3U	50	200-240 / 380-415	1.05	0.72	3.9 / 2.3
			60	200-240 / 380-440	1.58	1.08	5.3 / 2.9
TPK 4T15-15	3	53Q	50	200-255 / 380-440	1.30	0.89	4.4 / 2.8

Dimensions



Model	A mm	B mm	C mm	D mm	E mm	N.W. kg	
TPK 4T3-1B	405	179	226	123	101	8.4	30
TPK 4T5-1B	447	221	226	123	101	8.7	24
TPK 4T3-3B	449	179	270	144.5	111	11.8	24
TPK 4T5-3	491	221	270	144.5	111	12.0	24
TPK 4T8-3	554	284	270	144.5	111	12.3	15
TPK 4T19-3	785	515	270	144.5	111	13.4	15
TPK 4T5-5	491	221	270	144.5	111	12.1	24
TPK 4T8-5	554	284	270	144.5	111	12.4	15
TPK 4T11-5	617	347	270	144.5	111	12.7	15
TPK 4T15-5	701	431	270	144.5	111	13.0	15
TPK 4T19-5	785	515	270	144.5	111	13.3	15
TPK 4T7-7	573	263	310	144.5	111	13.7	15
TPK 4T19-7	825	515	310	144.5	111	14.8	15
TPK 4T8-8	594	284	310	144.5	111	13.8	15
TPK 4T11-8	657	347	310	144.5	111	14.1	15
TPK 4T15-8	741	431	310	144.5	111	14.4	15
TPK 4T19-8	825	515	310	144.5	111	14.8	15
TPK 4T10-10	636	326	310	144.5	111	14.1	15
TPK 4T11-10	657	347	310	144.5	111	14.2	15
TPK 4T15-10	741	431	310	144.5	111	14.5	15
TPK 4T19-10	825	515	310	144.5	111	14.9	15
TPK 4T11-11	657	347	310	144.5	111	14.3	15
TPK 4T12-12	678	368	310	144.5	111	14.4	15
TPK 4T15-12	741	431	310	144.5	111	14.6	15
TPK 4T19-12	825	515	310	144.5	111	14.8	15
TPK 4T15-15	741	431	310	144.5	111	15.0	15
TPK 4T19-15	825	515	310	144.5	111	15.4	15

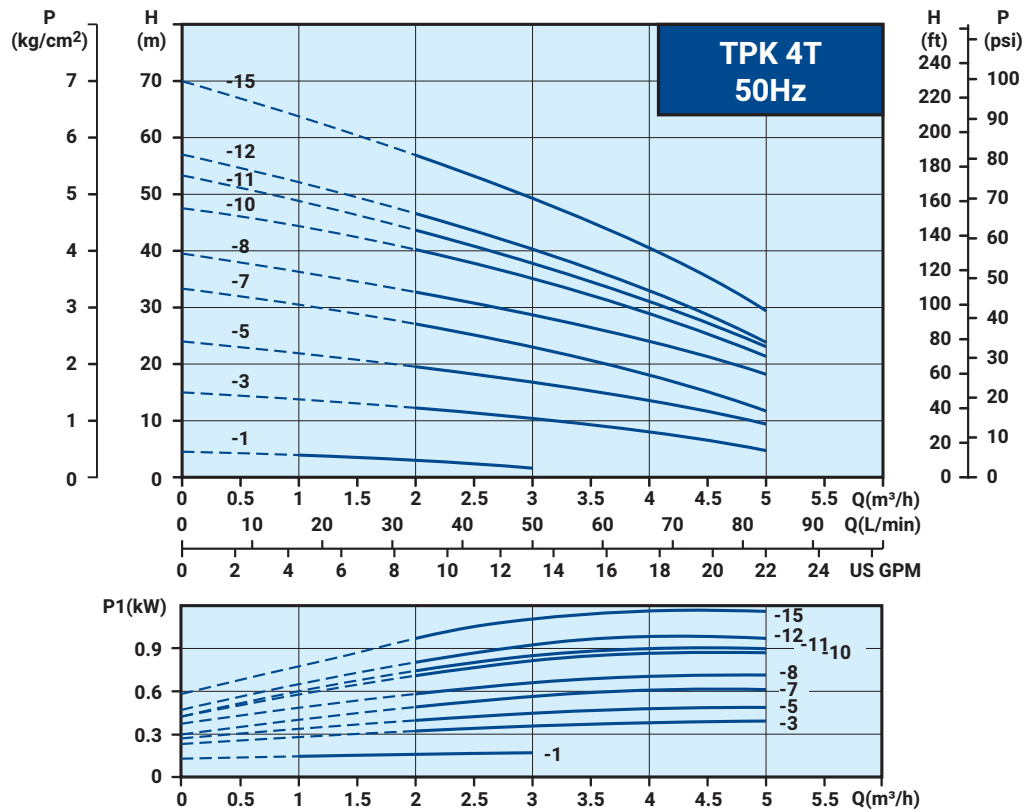
B Model without coupling design.

Maximum 19 Stages

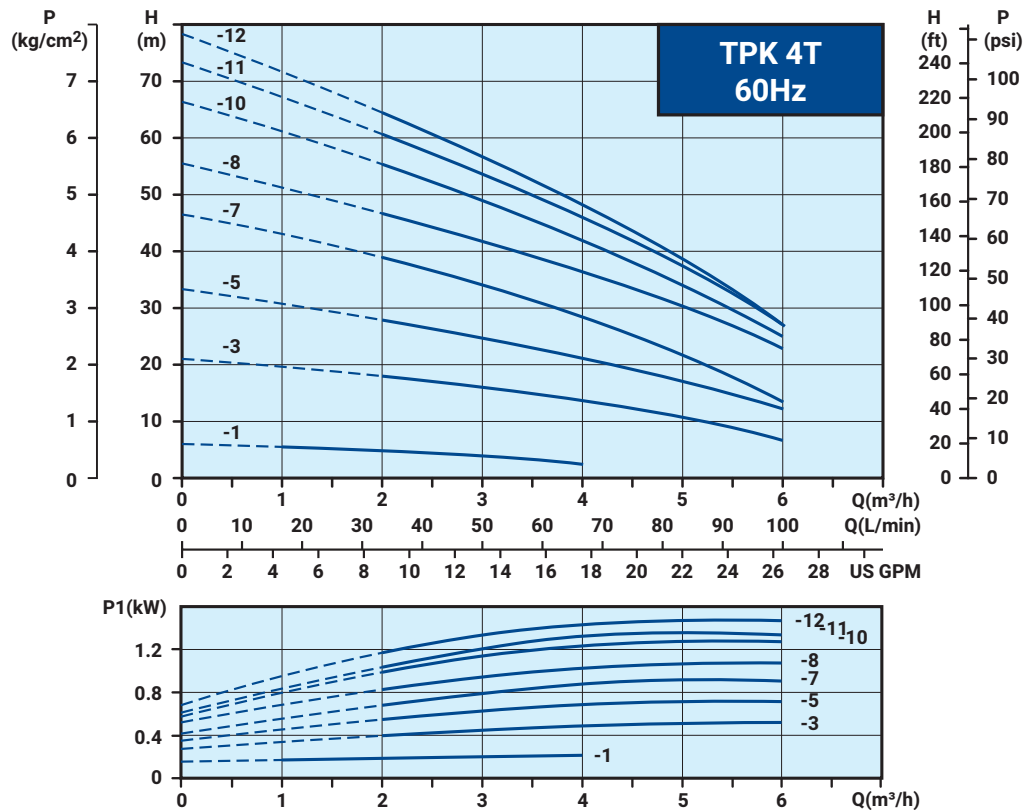
The stages that non-coupling models can be extended to 3-1B, 5-1B, 3-3B

The stages that coupling models can be extended to 5, 8, 10, 11, 12, 15, 17, 19

Performance Curve, 50Hz



Performance Curve, 60Hz





WALRUS
PUMP

WALRUS PUMP CO., LTD.

Head office: No.83-14, Dapiantou, Sanzhi Dist.,

New Taipei City 252, Taiwan

Tel: (+886) 2 2636-1123~7

Fax: (+886) 2 8635-2660

Email : walrus.sales@walrus.com.tw



All specifications are subject to change without notice. TPK-EN017b-202308

