

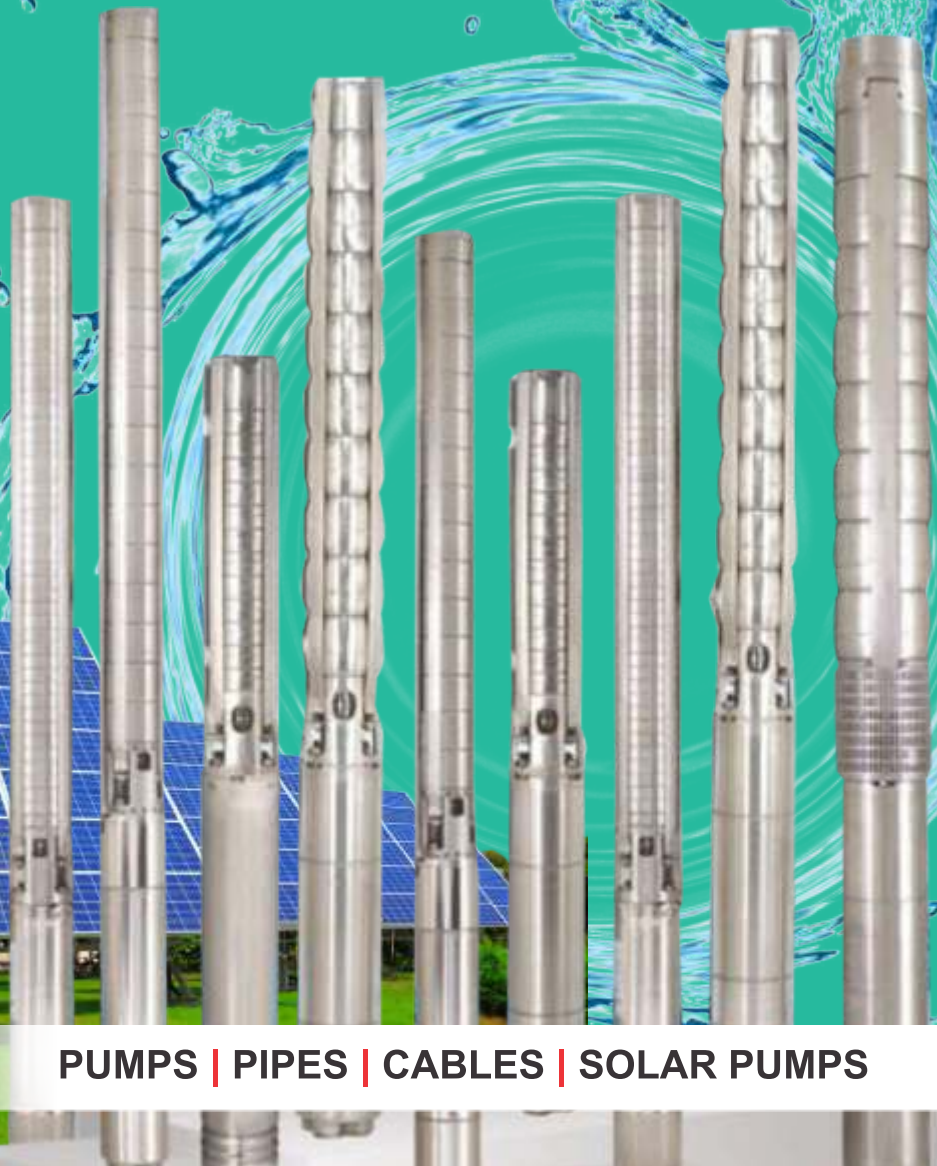
KUSUM KANTI MOTOR AND PUMPS

SS SUBMERSIBLE PUMPS *50Hz Catalogue*

KKMP



Quality and Confidence
is the root of business



PUMPS | PIPES | CABLES | SOLAR PUMPS

**SS SUBMERSIBLE
PUMPS**
50Hz Catalogue

KKMP



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KUSUM KANTI MOTOR AND PUMPS

The Company

We build superior quality and energy efficient pumps and our aim is to provide pumping solutions to our end customers by giving them a proper guidance and solution. We are also committed to green environment movement by offering and continuously improving energy efficiency.

We know the value of water had become real and concrete, since then water installations are considered a primary good. Kusum Kanti Motor and Pumps is committed to study, to develop, to manufacture and to industrialize pumping systems.

In Kusum Kanti Motor and Pumps we are continuously looking for the development of the products that fulfill the need of our customers. Main motive of our company is to satisfy the need of our customer by providing water solutions.

We are here to build relationship with minimum optimum expense from our users.

Our R&D team are always move to provide water solutions for the irrigation need.

Mission

- We aspire to provides high quality products that combine performance with value pricing, while establishing a successful relationship with our customers and our suppliers to gaining their trust.
- To constantly strive to meet our customer needs and expectations with comparative price, service, and selection to provide/enhance customer satisfaction. At the end, we will perform timely reviews of the marketplace to improve our products.
- To stay ahead by developing new products and services based on the customer needs and market demand.

VISION

- To make people's happy with our quality, services & innovation around the world.
- We want to provide WATER to each and everyone.
- W – Worth A-Affordable T-Timely E-Efficient R- Refresh



Contant

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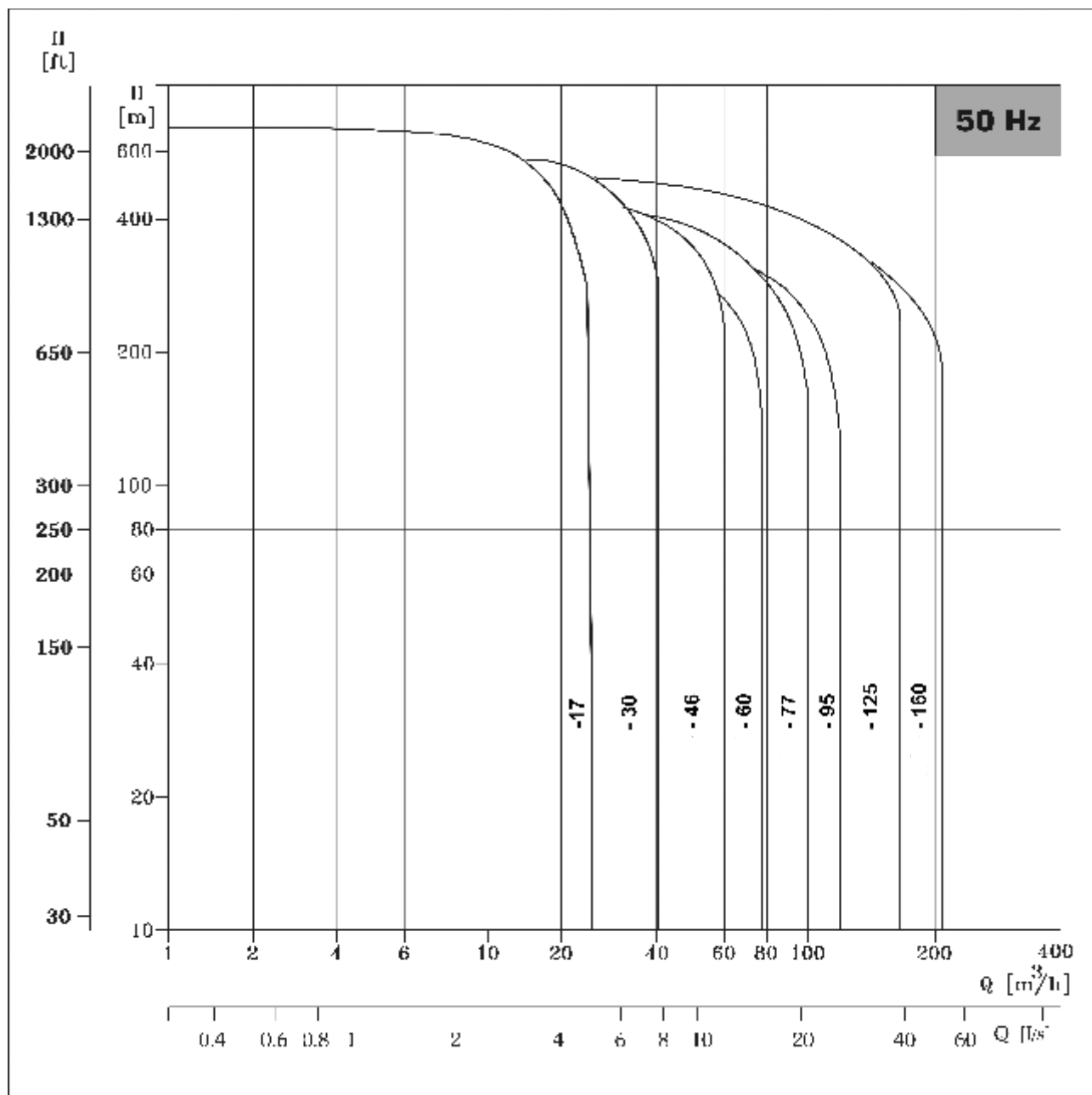
PERFORMANCE RANGE OF KKSP SERIES

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PUMP RANGE MODELS

Type	9	12	17	30	46	60	77	95	125	160
Steel: AISI SS 304	+	+	+	+	+	+	+	+	+	+
Connetion : Rp (Inches) BSP Thread	2.0"	2.0"	2.5"	3"	4"	4"	5"	5"	6"	6"
NPT Thread	3.0"	3.0"	3"	3"	4"	4"	5"	5"	6"	6"
Flange Connection							5"	5"	6"	6"

Motor Range

Motor Output (kW)	3.0	4.0	5.5	7.5	9.2	11	13	15	18.5	22	26	30	37	45	55	75	93	110
Three Phase	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rewindable Motors	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel: AISI 304 & Cast Iron	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Direct - on - Line starting is recommended up to 7.5 kW.

Soft starter or autotransformer is recommended above 7.5 kW.

SUBMERSIBLE PUMPS - KKSP SERIES

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Applications

The pumps are suitable for the following applications:

- raw water supply
- irrigation systems
- groundwater lowering
- pressure boosting
- industrial applications

Type Key

Example **KKSP** **77** **5** **A** **B**
 Type range _____
 Nominal flow rate x 10 lpm _____
 Number of impellers _____
 First impeller with reduced diameter (A,B or C) _____
 Second impeller with reduced diameter (A,B or C) _____

Pumped Liquids

Clean, thin, non-aggressive liquids without solid particles or fibres. The max. sand content is 50 mg/lit.

Operating Conditions

Flow rate Q Maximum : 8 - 204 m³/h
 Head H : max. 670m

Maximum Liquid Temperature

Motor	Installation		
	Flow Velocity Past Motor	Vertical	Horizontal
6" & 8"	0.15 m/s	40°C	40°C



Curve Conditions

Curve tolerance according to ISO 9906, Annex A

- The performance curves show pump performance at actual speed cf. standard motor range.
- The speed of the motors is approximately :

4" and 6" motors : n=2870 min-1
 8" to 12" motors : n=2900 min-1

- The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of 1mm²/s. When pumping liquids with density higher than that of water, motors with correspondingly higher outputs must be used.

- The bold curves indicate the recommended performance range.

- The performance curves are inclusive of possible losses such as non-return valve loss.

Table of Head Losses

**KKSP9,12,17,30,46,60,77,95,
125,160 Curves**

- Q/H : The curves are inclusive of valve and inlet losses at the actual speed.

- Operation without non-return valve (NRV) will increase the actual head at nominal performance by 0.5 - 1.0 m.

- NPSHR The curve is inclusive of suction case and shows required inlet pressure.

- Power Curve: It shows pump power input at the actual speed for each individual pump size.

- Efficiency Curve : Efficiency shows pump stage Efficiency.





SUBMERSIBLE PUMPS

1 Bearings with sand channels

All bearings are water-lubricated and have a squared shape enabling sand particles, if any, to leave the pump together with the pumped liquid.



2 Inlet strainer

The inlet strainer prevents particles over a certain size from entering the pump.

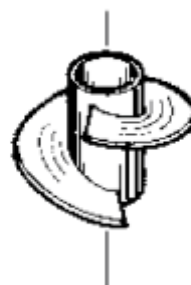


3 Priming screw

All KKM&P 4" pumps are fitted with a priming screw. Consequently, dry running is prevented, because the priming screw will make sure that pump bearings are always lubricated.

Due to the semi-axial impellers of large pumps this priming is provided automatically.

However, it applies to all pump types that if the water table is lowered to a level below the pump inlet neither pump nor motor will be protected against dry running.

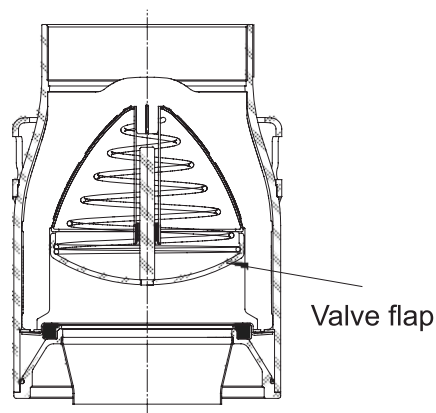


4 Non-return valve

All pumps are equipped with a reliable non-return valve in the valve casing preventing back flow in connection with pump stoppage.

Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to a minimum.

The valve casing is designed for optimum hydraulic properties to minimize the pressure loss across the valve and thus to contribute to the high efficiency of the pump.

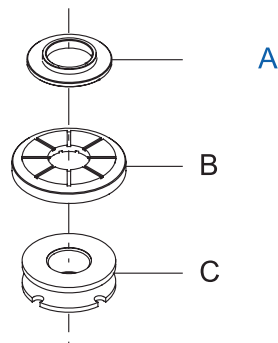


5 Stop ring

The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.

The stop ring, which is designed as a thrust bearing, limits axial movements of the pump shaft.

The stationary part of the stop ring (A) is secured in the upper chamber. The rotating part (B) is fitted above the split cone (C).



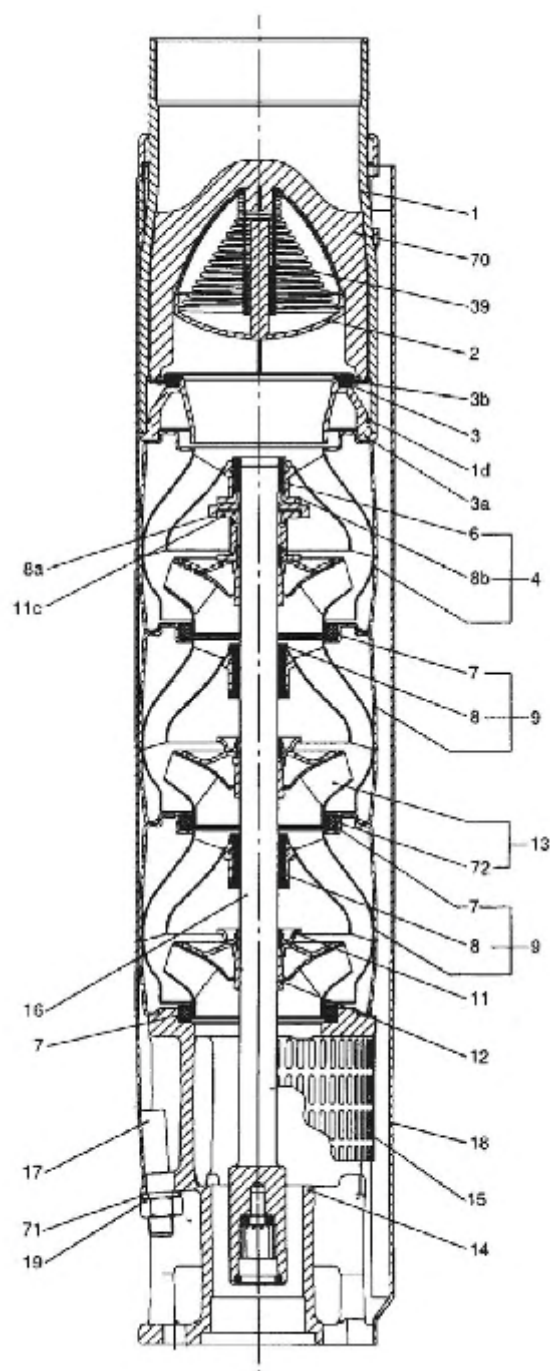
MATERIAL SPECIFICATION

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SUBMERSIBLE PUMP MODEL KKSP 77

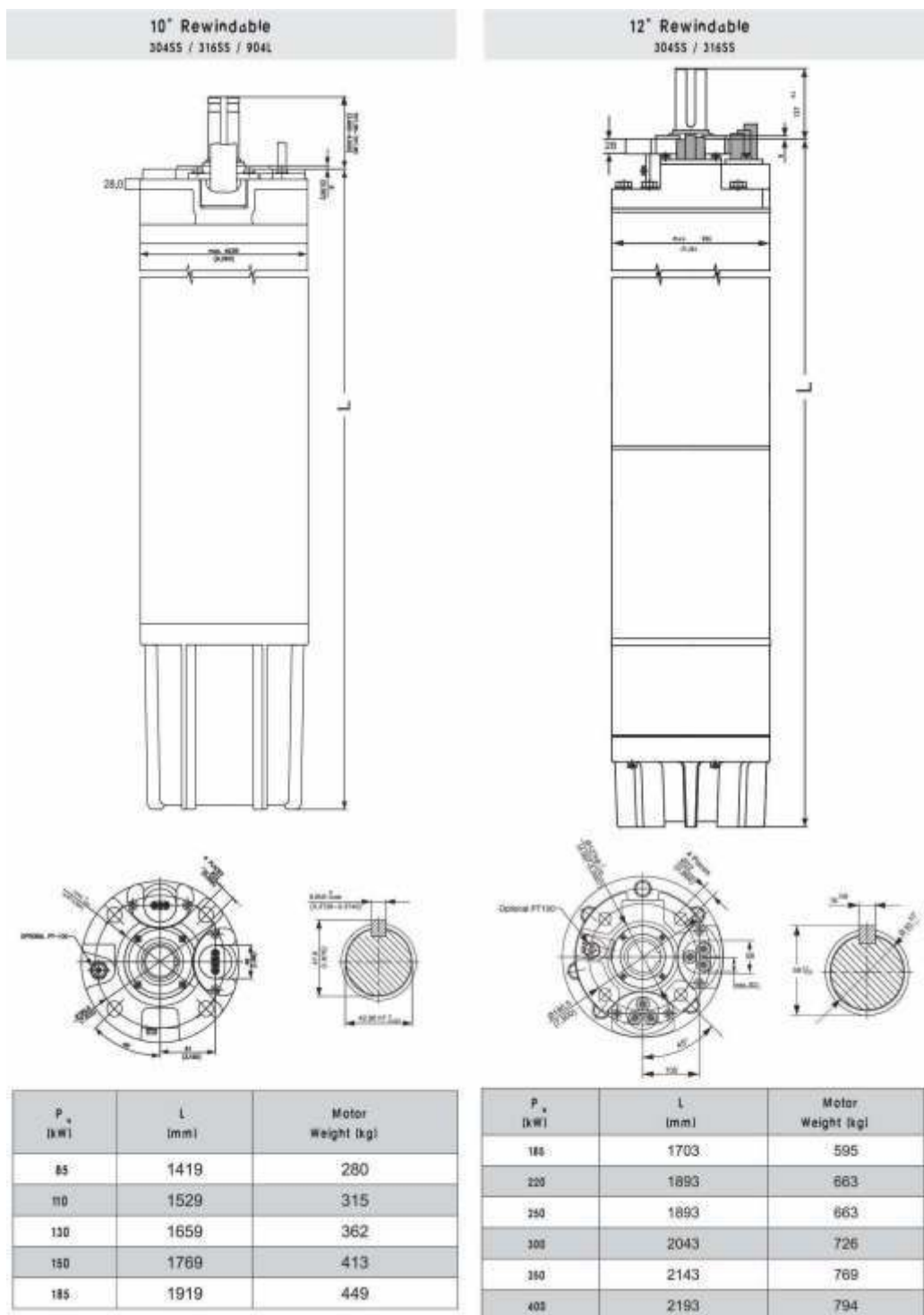
Pos	COMPONENTS	MATERIAL	STANDARD	V-VERSION
1	VALVE CASING	STAINLESS STEEL	304	316
1d	O-RING	NBR		
2	VALVE CUP	STAINLESS STEEL	304	316
3	VALVE SEAT	STAINLESS STEEL	304	316
3a	LOWER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
3b				
3c	UPPER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
4	TOP CHAMBER	STAINLESS STEEL	304	316
5	UPPER BEARING	STAINLESS STEEL NBR	304	316
7	NECKING	NBR 115		
8	BEARING	NBR		
8a	WASHER FOR STOP RING	CARBON/GRAPHITE HY22 IN PTFE MASS		
8b				
8c	STOP RING	STAINLESS STEEL	316	316
9	CHAMBER	STAINLESS STEEL	304	316
11	SPLIT CONE NUT	STAINLESS STEEL	304	316
11c	NUT FOR STOP RING	STAINLESS STEEL	316	316
12	SPLIT CONE	STAINLESS STEEL	304	316
13	IMPELLER	STAINLESS STEEL	304	316
14	SUCTION INTERCONNECTOR	STAINLESS STEEL	304	316
15	STRAINER	STAINLESS STEEL	304	316
16	SHAFT COMPLETE	STAINLESS STEEL	431	316
17	STRAP	STAINLESS STEEL	304	316
18	CABLE GUARD	STAINLESS STEEL	304	316
19	NUT FOR STRAP	STAINLESS STEEL	304	316
39	SHIM FOR VALVE CUP	STAINLESS STEEL	304	316
70	VALVE GUIDE	STAINLESS STEEL	304	316
71	WASHER	STAINLESS STEEL	316	316
72	WEAR RING	STAINLESS STEEL	304	316



6" Rewindable KKMP 150 : 4-37 kW / 5.5 -50 HP

Thrust Rating : 15500 - 27500

OMP 6" Outline





6" Rewindable KKSP150 : 4-37 kW / 5.5 -50 HP

Thrust Rating : 15500 - 27500

6" Rewindable Motors Product Information

Application

6" Rewindable motors are built for dependable operation in 6" diameter or larger water wells. Water lubricated thrust and radial bearings enable a maintenance free operation. The motors are ready to operate, providing frost protection down to - 15°C. Fill and check valve, as well as a preloaded special diaphragm, ensure pressure compensation inside the motor. (Inside pressure 0,5 - 0,7 bar)

Other Product advantages :

- Cable material according to drinking water regulations.
- Sand slinger and shaft seal for high performance in sand.
- High efficiency electrical design for low operation cost.
- All motors prefilled and 100% tested
- Design for retrofittable PT100 sensor

Technical Specification

Standard Motors

- 6" NEMA - flange with studs (M 12)
- Protection : IP 68
- Starts per hour: max. 20
- Installation position: vertical / horizontal
- Motors Lead in 4m length
- Voltage tolerance: +6% / -10%
- (Standard: 415 + 6%=440V. 380-10% = 342V)
- Motors protection: Select Taping winding insulation for max. ambient of 30 with a min.

Optional

- PT 100 temperature sensor (sold separately)
- Drop cable in different length up to 50m

Material

Part	Material AISI
	304 (Standard)
Shell	(SS AISI 304)
Endbell Diaphragm cover	Cast Iron / powder coated
Housing thrust bearing	Cast Iron Powder Coted
Seals	BUNA N
Seal Cover	(SS AISI 304)
Shaft Cover	SiC
Shaft end 4kW-22kW / 5.5 HP - 30 HP	(SS AISI 410)
Shaft end 26kW-37kW / 5.5 HP - 30 HP	(SS AISI 410)
Diaphragm	EPR

Technical Changes without notice

KKSP SUBMERSIBLE MOTORS

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6" Rewindable KKSP 150 : 4-37 kW / 5.5 -50 HP

Thrust Rating : 15500 - 27500

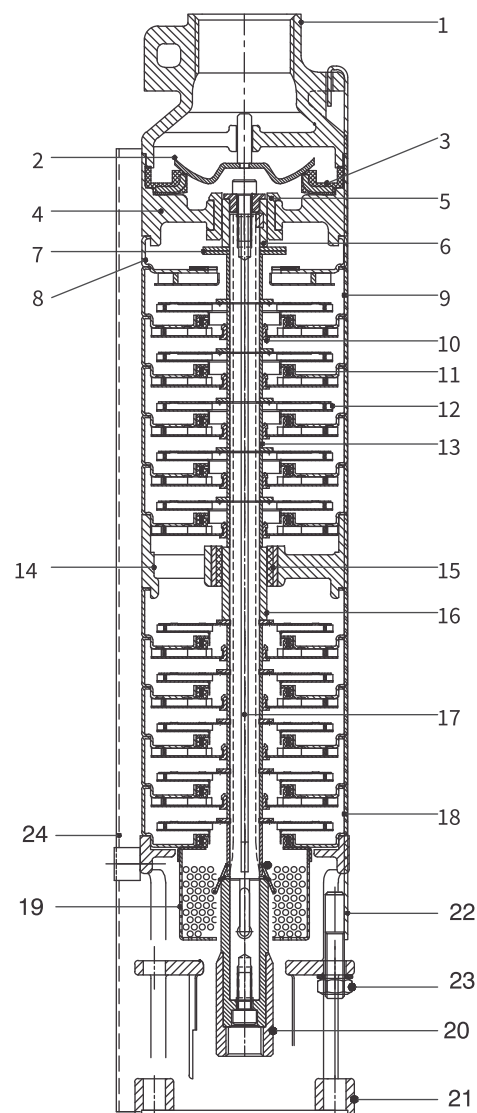
KKSP 150 - Rewindable Motors Performance Data 50 Hz

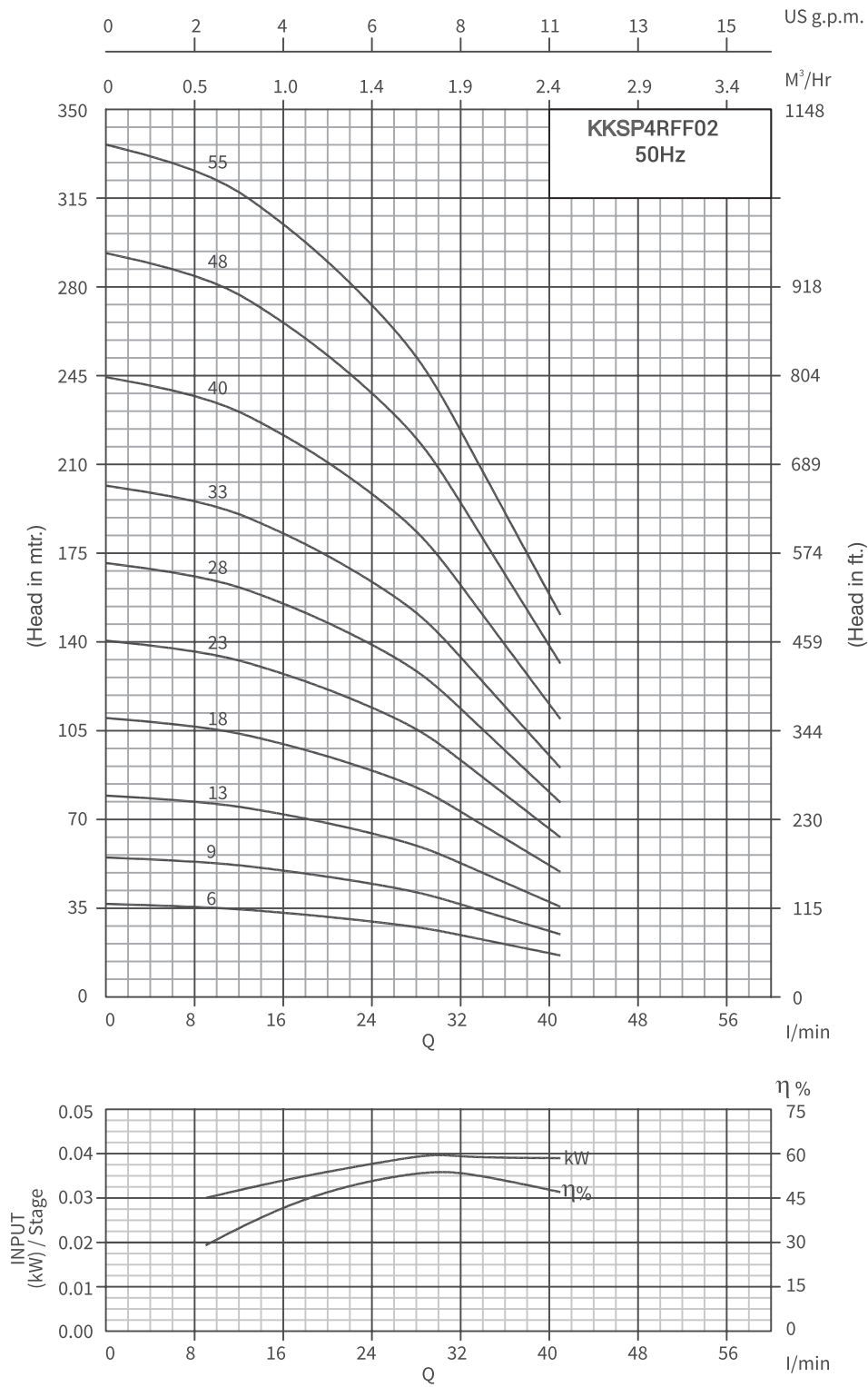
P _N HP / kW	Thrust F [N]	U _N [V]	n _N [min-1]	I _N [A]	I _A [A]	η (Eff.) [%] at % load			cos φ (PF) at % load			T _N [Nm]	T _A [Nm]
						50	75	100	50	75	100		
5.5 / 4.0	15500	380	2910	10,4	48	0,71	0,75	0,76	0,59	0,71	0,78	13,1	15,5
		400	2930	10,6	51	0,68	0,73	0,76	0,53	0,65	0,73	13,1	17,3
		415	2930	10,9	53	0,65	0,72	0,76	0,50	0,61	0,69	13,0	18,8
7.5 / 5,5	15500	380	2860	13,7	48	0,74	0,76	0,75	0,67	0,78	0,83	18,3	15,5
		400	2890	13,3	51	0,72	0,76	0,76	0,62	0,74	0,81	18,2	17,3
		415	2890	13,4	53	0,71	0,75	0,75	0,59	0,71	0,78	18,1	18,8
10.0 / 7,5	15500	380	2860	18,3	59	0,77	0,78	0,76	0,70	0,80	0,84	25,0	19,2
		400	2880	17,7	63	0,75	0,78	0,77	0,65	0,76	0,82	24,8	21,5
		415	2890	17,7	65	0,73	0,77	0,77	0,61	0,73	0,80	24,7	23,4
12.5 / 9,3	15500	380	2850	22,0	74	0,79	0,80	0,78	0,71	0,80	0,84	31,1	25,9
		400	2870	21,4	78	0,78	0,79	0,78	0,64	0,76	0,82	31,0	29,0
		415	2880	21,2	81	0,76	0,79	0,78	0,60	0,72	0,80	30,9	31,4
15.0 / 11,0	15500	380	2860	25,8	93	0,78	0,80	0,78	0,71	0,80	0,85	36,7	31,5
		400	2880	25,2	98	0,77	0,80	0,79	0,65	0,76	0,83	36,4	35,3
		415	2890	25,1	102	0,75	0,78	0,79	0,61	0,73	0,80	36,3	38,2
17.5 / 13,0	15500	380	2860	30,1	118	0,80	0,81	0,80	0,68	0,79	0,84	43,1	45,0
		400	2900	29,6	125	0,78	0,80	0,80	0,61	0,74	0,81	42,8	50,3
		415	2900	29,7	130	0,76	0,79	0,80	0,57	0,70	0,78	42,7	54,6
20.0 / 15,0	15500	380	2860	33,9	140	0,81	0,82	0,81	0,71	0,81	0,85	49,7	53,9
		400	2890	33,1	148	0,79	0,81	0,81	0,65	0,77	0,83	49,4	60,4
		415	2900	33,0	151	0,77	0,80	0,81	0,60	0,73	0,81	49,3	65,5
25.0 / 18,5	15500	380	2860	42,3	172	0,81	0,82	0,81	0,68	0,78	0,84	61,7	75,2
		400	2880	42,0	182	0,78	0,81	0,81	0,61	0,74	0,80	61,2	84,3
		415	2890	42,5	189	0,76	0,79	0,80	0,57	0,70	0,77	61,1	91,3
30.0 / 22,0	15500	380	2880	49,1	218	0,82	0,84	0,83	0,68	0,78	0,84	72,6	91,2
		400	2900	49,0	231	0,80	0,82	0,82	0,61	0,73	0,80	72,5	102,2
		415	2910	49,6	240	0,77	0,81	0,82	0,56	0,69	0,77	72,2	110,7
35.0 / 26,0	15500	380	2880	57,5	268	0,83	0,84	0,83	0,68	0,79	0,86	86,0	120,4
		400	2900	56,7	284	0,81	0,83	0,83	0,61	0,74	0,83	85,6	134,7
		415	2910	57,3	296	0,78	0,82	0,82	0,56	0,69	0,80	85,3	146,1
40.0 / 30,0	27500	380	2900	66,4	328	0,82	0,84	0,83	0,67	0,78	0,84	98,8	135,0
		400	2910	66,4	347	0,80	0,83	0,83	0,60	0,73	0,80	98,4	151,0
		415	2910	67,5	361	0,77	0,81	0,82	0,55	0,68	0,77	98,2	163,0
50.0 / 37,0	27500	380	2890	82,0	409	0,83	0,84	0,83	0,67	0,78	0,84	122,1	192,8
		400	2900	81,9	433	0,80	0,83	0,83	0,60	0,72	0,80	121,6	215,8
		415	2910	83,9	450	0,77	0,81	0,82	0,55	0,68	0,76	121,3	234,0

STAINLESS STEEL SUBMERSIBLE PUMP

Material specification

No.	PART NAME	MATERIAL
1	N.R.V. 1.25"	SS AISI 304
2	VALVE	SS AISI 304
3	VALVE SEAT	N.B.R.
4	TOP BEARING HOUSING	SS AISI 304
5	TOP BEARING HOUSING BUSH	N.B.R.
6	TOP BEARING HOUSING SLEEVE	SS AISI 304
7	THRUST WASHER	SS AISI 304
8	TOP DIFFUSER	SS AISI 304
9	DIFFUSER	SS AISI 304
10	BEARING BUSH	N.B.R.
11	NECKRING	N.B.R. + P.P.S.
12	IMPELLER	SS AISI 304
13	STAGE SLEEVE	SS AISI 304
14	MIDDLE BEARING HOUSING	SS AISI 304
15	MIDDLE BEARING HOUSING BUSH	N.B.R. + S.S.304
16	MIDDLE BEARING HOUSING SLEEVE	SS AISI 304
17	PUMP SHAFT	SS AISI 431
18	FIRST STAGE DIFFUSER	SS AISI 304
19	STRAINER	SS AISI 304
20	NEMA COUPLING	SS AISI 304
21	SUCTION INTERCONNECTOR	SS AISI 304
22	CLAMPING STRIP	SS AISI 304
23	HEX NUT	A2-70 (316)
24	CABLE GUARD	SS AISI 304

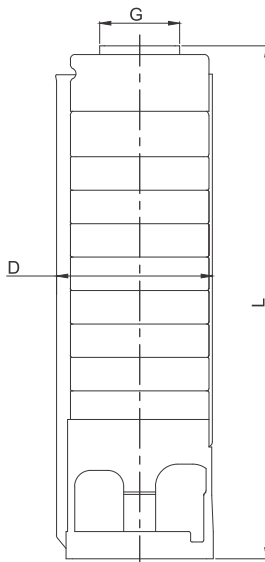






kW	HP	Stage	Motor Joinings	Outlet Size		Discharge					
					m ₃ /h	0	1	1.4	2	2.4	2.7
					lpm	0	17	23	33	40	45
0.37	0.5	6	V-4	1½"	Head in Mtrs.	35	31	29	23	14	8
0.37	0.5	9	V-4	1½"		52	46	43	35	22	12
0.55	0.75	13	V-4	1½"		75	67	62	51	31	17
0.75	1	18	V-4	1½"		104	93	86	70	43	23
1.1	1.5	23	V-4	1½"		133	118	109	90	55	30
1.5	2	28	V-4	1½"		162	144	133	109	67	36
1.5	2	33	V-4	1½"		191	170	157	129	79	43
2.2	3	40	V-4	1½"		232	206	190	156	96	52
2.2	3	48	V-4	2 1½"		278	247	228	187	115	6
3	4	55	V-4	1½"		319	283	261	214	131	71

Dimensionseits



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
V-4 KKSP 02-06	98	280	3.2	3.8
V-4 KKSP 02-09	98	343	4.2	5.1
V-4 KKSP 02-13	98	427	5.4	6.7
V-4 KKSP 02-18	98	532	7.2	9.0
V-4 KKSP 02-23	98	668	8.9	11.2
V-4 KKSP 02-28	98	773	10.6	13.4
V-4 KKSP 02-33	98	878	12.2	15.5
V-4 KKSP 02-40	98	1097	13.0	17.0
V-4 KKSP 02-48	98	1296	14.6	19.44
V-4 KKSP 02-55	98	1443	16.2	21.7

G: Available Outlet Size 1.25" BSP

D: With Cable Guard

KKSP5 3-75 and KKSP5 4 4-90 pump available in 4" Joining mounted sleeve.

V-4 KKSP 03 50Hz SERIES PUMP DESIGN

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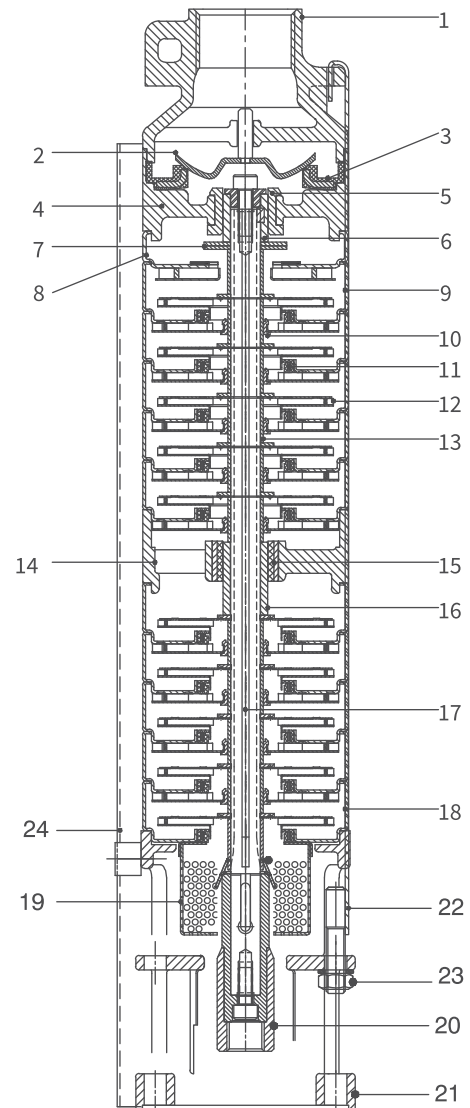
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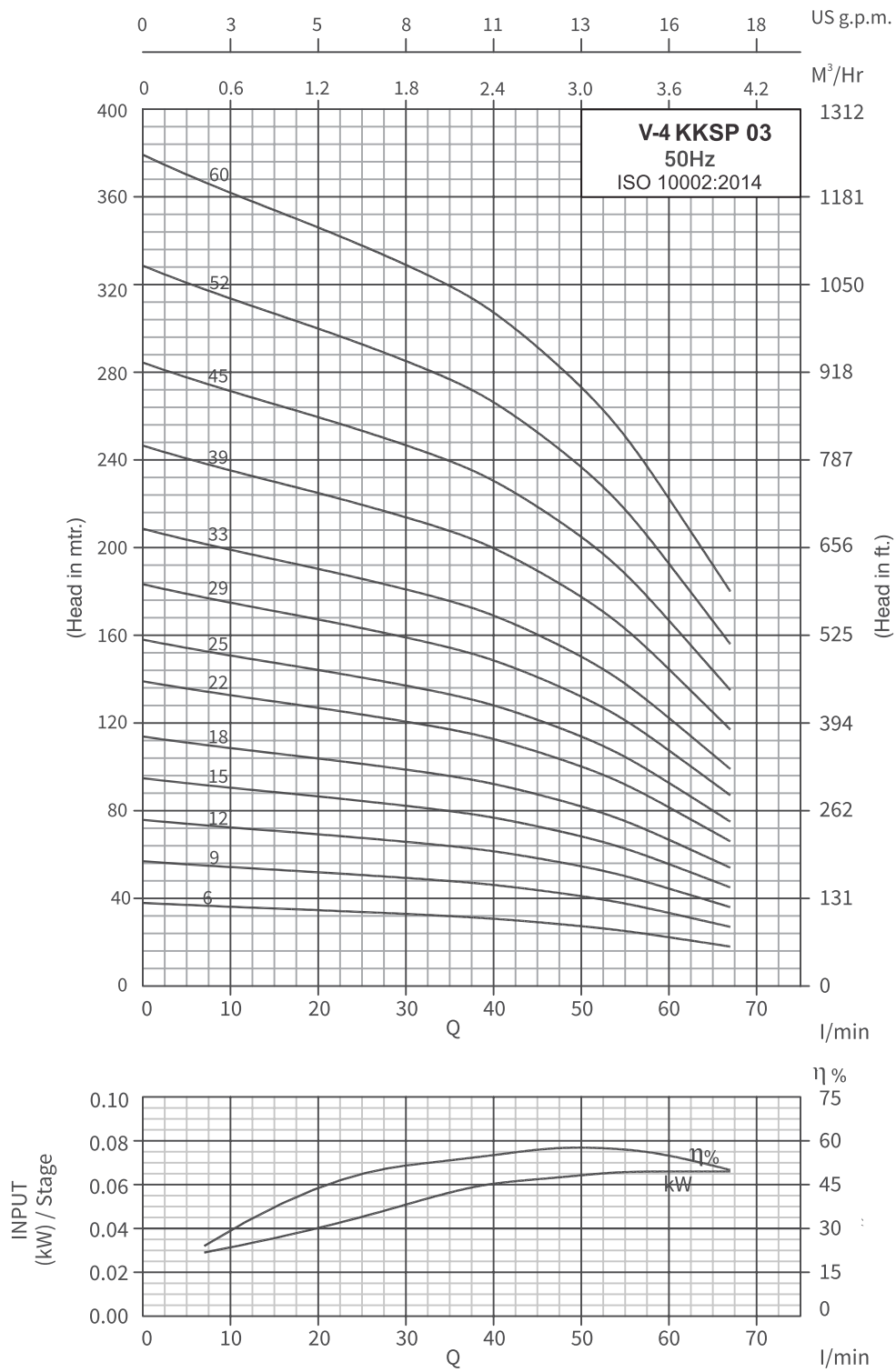


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Material specification

No.	PART NAME	MATERIAL
1	N.R.V. 1.25"	SS AISI 304
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4	TOP BEARING HOUSING	SS AISI 304
5	TOP BEARING HOUSING BUSH	N.B.R.
6	TOP BEARING HOUSING SLEEVE	SS AISI 304
7	THRUST WASHER	SS AISI 304
8	TOP DIFFUSER	SS AISI 304
9	DIFFUSER	SS AISI 304
10	BEARING BUSH	N.B.R.
11	NECKRING	N.B.R. + P.P.S.
12	IMPELLER	SS AISI 304
13	STAGE SLEEVE	SS AISI 304
14	MIDDLE BEARING HOUSING	SS AISI 304
15	MIDDLE BEARING HOUSING BUSH	N.B.R. + S.S.304
16	MIDDLE BEARING HOUSING SLEEVE	SS AISI 304
17	PUMP SHAFT	SS AISI 431
18	FIRST STAGE DIFFUSER	SS AISI 304
19	STRAINER	SS AISI 304
20	NEMA COUPLING	SS AISI 304
21	SUCTION INTERCONNECTOR	SS AISI 304
22	CLAMPING STRIP	SS AISI 304
23	HEX NUT	A2-70 (316)
24	CABLE GUARD	SS AISI 304

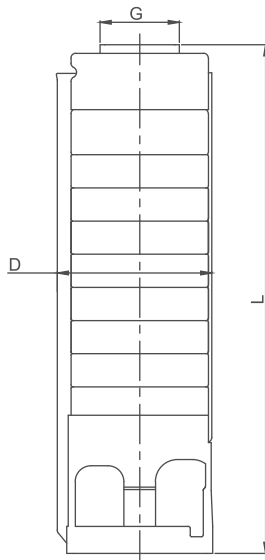






kW	HP	Stage	Motor Joinings	Outlet Size		Discharge					
					m³/h	0	1.8	2.4	3	3.6	4
					lpm	0	30	40	50	60	67
0.37	0.5	6	V-4	1½"	Head in Mtrs.	36	32	30	26	20	16
0.55	0.75	9	V-4	1½"		54	49	45	39	31	23
0.75	1	12	V-4	1½"		72	65	60	52	41	31
1.1	1.5	15	V-4	1½"		90	81	75	65	51	39
1.1	1.5	18	V-4	1½"		108	97	90	78	61	47
1.5	2	22	V-4	1½"		132	119	110	96	75	57
1.5	2	25	V-4	1½"		150	135	125	109	85	65
2.2	3	29	V-4	1½"		174	157	145	126	99	75
2.2	3	33	V-4	1½"		198	178	165	144	112	86
3	4	39	V-4	1½"		234	211	195	170	133	101
3	4	45	V-4	1½"		270	243	225	196	153	117
3.7	5	52	V-4	1½"		312	281	260	226	177	135
3.7	5	60	V-4	1½"		360	324	300	260	204	155

Dimensionseits



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
V-4 KKSP 03-06	98	280	3.4	4.0
V-4 KKSP 03-09	98	343	4.4	5.3
V-4 KKSP 03-12	98	406	5.4	6.6
V-4 KKSP 03-15	98	469	6.4	7.9
V-4 KKSP 03-18	98	532	7.4	9.2
V-4 KKSP 03-22	98	647	8.7	10.9
V-4 KKSP 03-25	98	710	9.7	12.2
V-4 KKSP 03-29	98	794	10.9	13.8
V-4 KKSP 03-33	98	878	12.2	15.5
V-4 KKSP 03-39	98	1076	12.7	16.6
V-4 KKSP 03-45	98	1233	14.0	18.5
V-4 KKSP 03-52	98	1380	15.5	20.7
V-4 KKSP 03-60	98	1548	17.3	23.3

G: Available Outlet Size 1.25" BSP

D: With Cable Guard

V-4 KKSP-05 SERIES PUMP DESIGN

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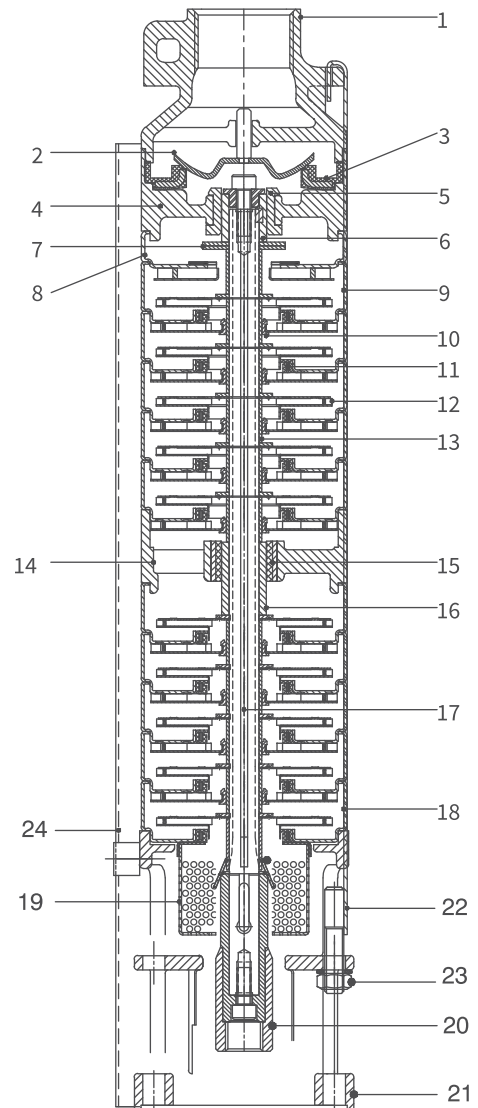
KKMP

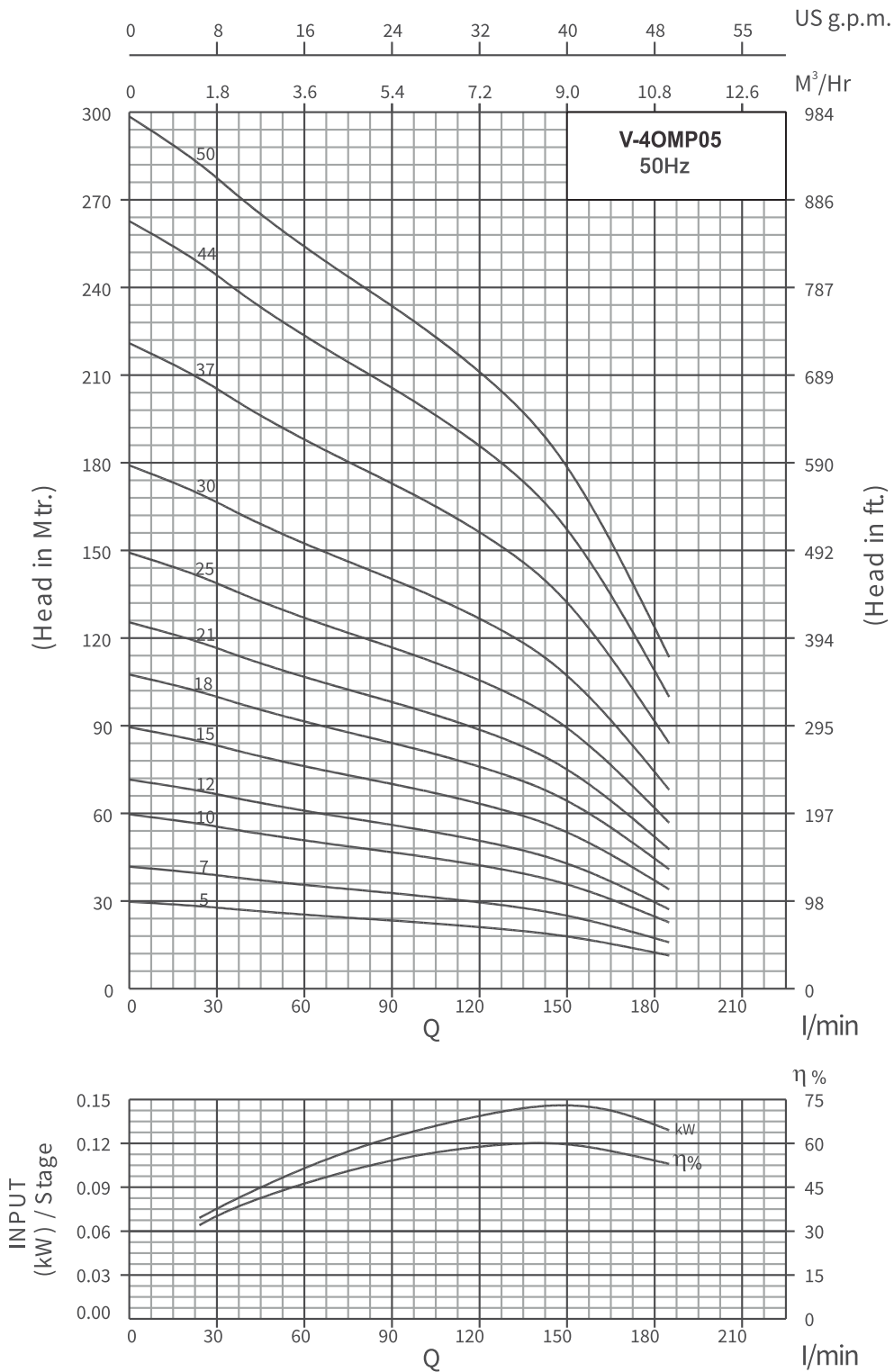


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Material specification

No.	PART NAME	MATERIAL
1	N.R.V. 1.25"	SS AISI 304
2	VALVE	SS AISI 304
3	VALVE SEAT	N.B.R.
4	TOP BEARING HOUSING	SS AISI 304
5	TOP BEARING HOUSING BUSH	N.B.R.
6	TOP BEARING HOUSING SLEEVE	SS AISI 304
7	THRUST WASHER	SS AISI 304
8	TOP DIFFUSER	SS AISI 304
9	DIFFUSER	SS AISI 304
10	BEARING BUSH	N.B.R.
11	NECKRING	N.B.R. + P.P.S.
12	IMPELLER	SS AISI 304
13	STAGE SLEEVE	SS AISI 304
14	MIDDLE BEARING HOUSING	SS AISI 304
15	MIDDLE BEARING HOUSING BUSH	N.B.R. + S.S.304
16	MIDDLE BEARING HOUSING SLEEVE	SS AISI 304
17	PUMP SHAFT	SS AISI 431
18	FIRST STAGE DIFFUSER	SS AISI 304
19	STRAINER	SS AISI 304
20	NEMA COUPLING	SS AISI 304
21	SUCTION INTERCONNECTOR	SS AISI 304
22	CLAMPING STRIP	SS AISI 304
23	HEX NUT	A2-70 (316)
24	CABLE GUARD	SS AISI 304





V-4 KKSP5 50Hz SERIES PUMP DESIGN

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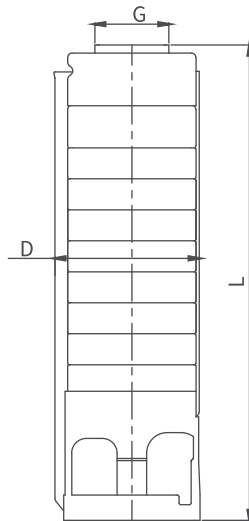
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kW	HP	Stage	Motor Joinings	Outlet Size		Discharge					
					m³/h	0	2.4	3.4	4	5	6
					lpm	0	40	57	67	83	100
0.37	0.5	4	V-4	1½"	Head in Mtrs.	24	21	20	19	16	12
0.55	0.75	6	V-4	1½"		36	32	30	28	24	17
0.75	1	9	V-4	1½"		48	42	40	38	32	23
1.1	1.5	12	V-4	1½"		72	63	60	56	48	35
1.5	2	17	V-4	1½"		102	89	85	80	68	49
2.2	3	21	V-4	1½"		126	110	105	99	84	61
2.2	3	25	V-4	1½"		150	131	125	118	100	73
3	4	33	V-4	1½"		198	173	165	155	132	96
3.7	5	38	V-4	1½"		228	200	190	179	152	110
4.5	6	44	V-4	1½"		264	231	220	207	176	128
5.5	7.5	52	V-4	1½"		312	273	260	244	208	151
5.5	7.5	60	V-4	1½"		360	315	300	281	240	174
7.5	10	75	V-4	1½"		450	394	375	351	300	217
7.5	10	85	V-4	1½"		510	446	425	398	340	246

Dimensionseits



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
V-4 KKSP 05 -04	98	238	3.2	3.4
V-4 KKSP 05 -06	98	280	3.6	3.9
V-4 KKSP 05 -08	98	322	4.0	4.4
V-4 KKSP 05 -12	98	406	5.6	6.2
V-4 KKSP 05 -15	98	469	6.6	7.4
V-4 KKSP 05 -17	98	511	7.0	7.9
V-4 KKSP 05 -21	98	626	8.4	9.5
V-4 KKSP 05 -25	98	710	9.7	11.0
V-4 KKSP 05 -33	98	878	12.5	14.2
V-4 KKSP 05 -38	98	1169	13.0	14.7
V-4 KKSP 05 -44	98	1344	14.0	16.0
V-4 KKSP 05 -52	98	1536	16.3	18.6
V-4 KKSP 05 -60	119	1820	27.0	29.4
V-4 KKSP 05 -75	144	2423	43.5	46.1
V-4 KKSP 05 -85	144	2694	47.5	50.5

G: Available Outlet Size 1.5" BSP

D: With Cable Guard

KKPS5-52 & KKPS5-60 pump available in 6" Joining

KKPS5-75 & KKPS5-85 pump available in 6" Joining with mounted sleeve.

V-4 KKSP8 50Hz SERIES PUMP DESIGN

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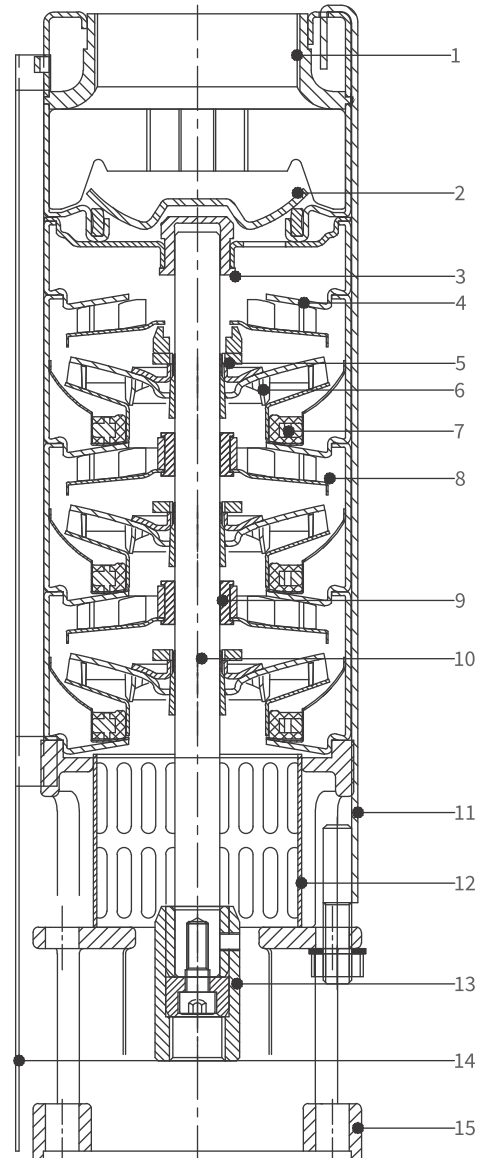
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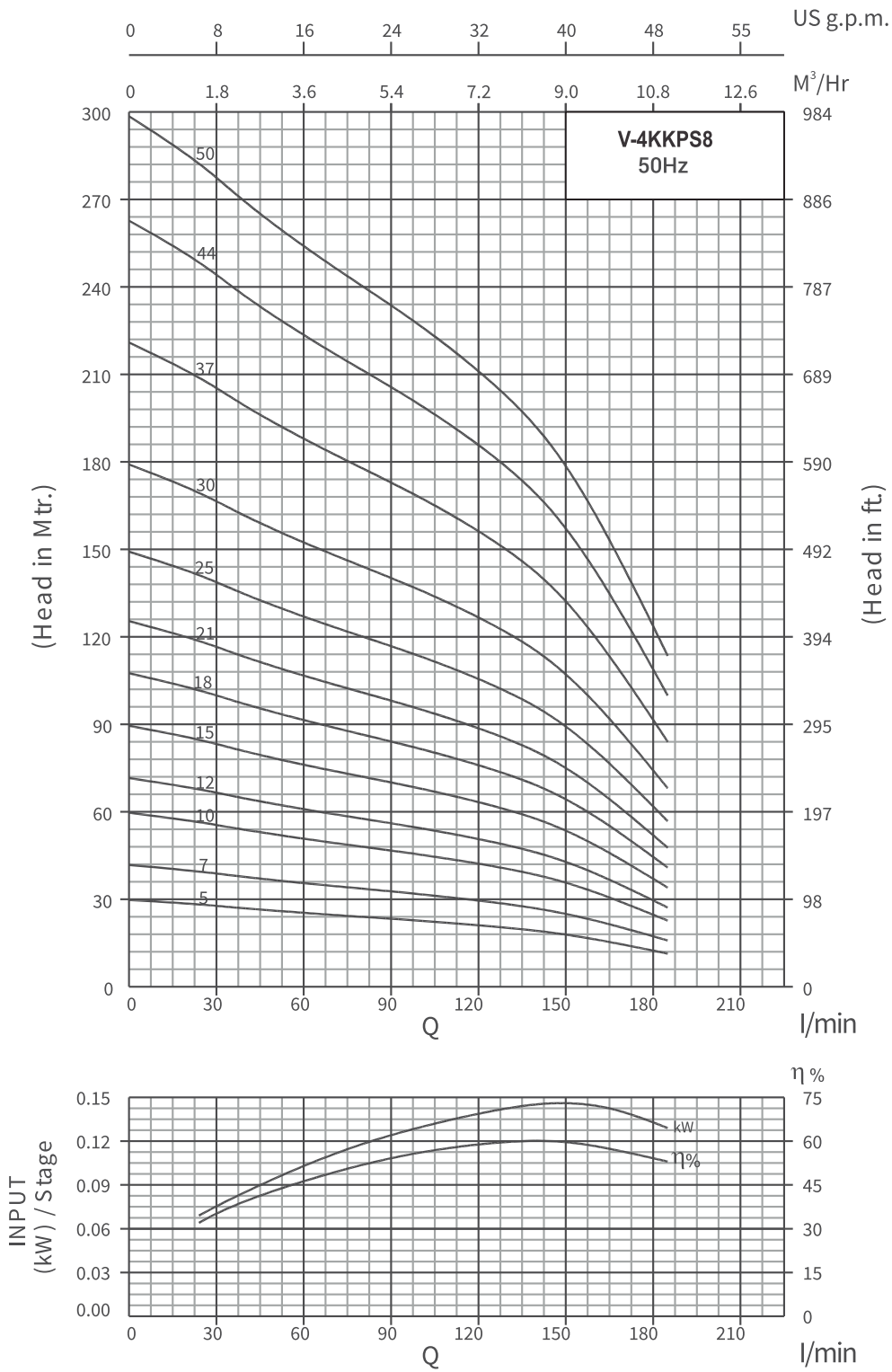


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Material specification

No.	PART NAME	MATERIAL
1	N.R.V. 2.0"	SS AISI 304
2	VALVE	SS AISI 304
3	TOP BEARING BUSH	N.B.R.
4	TOP DIFFUSER	SS AISI 304
5	COLLET & COLLET NUT	SS AISI 304
6	IMPELLER	SS AISI 304
7	NECKRING	N.B.R. + NYLON
8	DIFFUSER	SS AISI 304
9	BEARING BUSH	N.B.R.
9	STAGE SLEEVE	SS AISI 304
10	PUMP SHAFT	S.S. AISI 431
11	CLAMPING STRIP	SS AISI 304
12	STRAINER	SS AISI 304
13	NEMA COUPLING	SS AISI 304
14	CABLE GUARD	SS AISI 304
15	SUCTION	SS AISI 304





V-4 KKSP8 50Hz ISO 10002:2014

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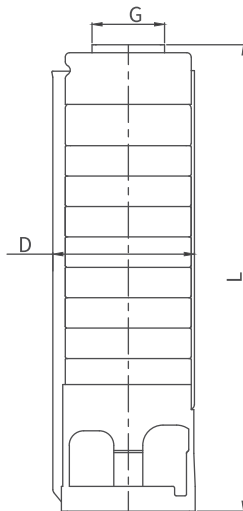
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kW	HP	Stage	Motor Joinings	Outlet Size		Discharge					
					m ³ /h	0	4	6	8	9	10
					lpm	0	67	100	133	150	167
0.75	1	5	V-4	2"	Head in Mtrs.	30	24	23	20	18	14
1.1	1.5	7	V-4	2"		42	34	32	28	25	20
1.5	2	10	V-4	2"		60	48	45	40	36	28
2.2	3	12	V-4	2"		72	58	54	48	43	34
2.2	3	15	V-4	2"		90	72	68	60	54	42
3	4	18	V-4	2"		108	86	81	72	65	50
3.7	5	21	V-4	2"		126	101	95	84	76	59
4.5	6	25	V-4	2"		150	120	113	100	90	70
5.5	7.5	30	V-4	2"		180	144	135	120	108	84
5.5	7.5	37	V-4	2"		222	178	167	148	133	104
7.5	10	44	V-4	2"		264	211	198	176	158	123
7.5	10	50	V-4	2"		300	240	225	200	179	140

Dimensionseits



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
V-4KKSP8-05	98	410	7.2	10.2
V-4KKSP8-07	98	494	7.7	10.7
V-4KKSP8-10	98	620	8.4	11.4
V-4KKSP8-12	98	704	8.9	11.9
V-4KKSP8-15	98	830	9.7	12.7
V-4KKSP8-18	98	956	10.5	13.5
V-4KKSP8-21	98	1082	11.2	14.2
V-4KKSP8-25	98	1250	12.3	15.3
V-4KKSP8-30	98	1460	13.5	16.5
V-4KKSP8-37	98	1754	15.3	18.3
V-4KKSP8-44	98	2048	17.1	20.1
V-4KKSP8-50	98	2300	18.8	21.8

G: Available Outlet Size BSP 2.0"

D: With Cable Guard

KKSP8-30, KKSP8-37, KKSP8-44 & KKSP8-50 pump are also available in 6" Joining.

KKSP8-58, KKSP8-66, KKSP8-73 & KKSP8-82

KKSP8-91, KKSP8-100 & KKSP8-110 Pump are also available in 6" Joining with mounted sleeve.

V-4 KKSP14SERIES PUMP DESIGN

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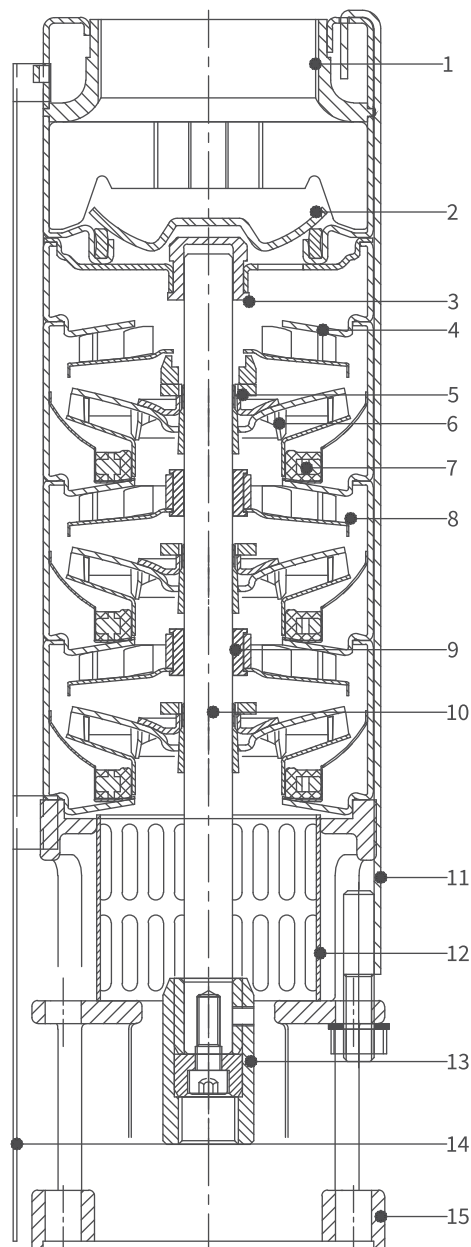
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Material specification

No.	PART NAME	MATERIAL
1	N.R.V. 2.0"	S.S AISI 304
2	VALVE	SS AISI 304
3	TOP BEARING BUSH	N.B.R.
4	TOP DIFFUSER	SS AISI 304
5	COLLET & COLLET NUT	SS AISI 304
6	IMPELLER	SS AISI 304
7	NECKRING	N.B.R. + NYLON
8	DIFFUSER	SS AISI 304
9	BEARING BUSH	N.B.R.
10	PUMP SHAFT	SS AISI 431
11	CLAMPING STRIP	SS AISI 304
12	STRAINER	SS AISI 304
13	NEMA COUPLING	SS AISI 304
14	CABLE GUARD	SS AISI 304
15	SUCTION	SS AISI 304



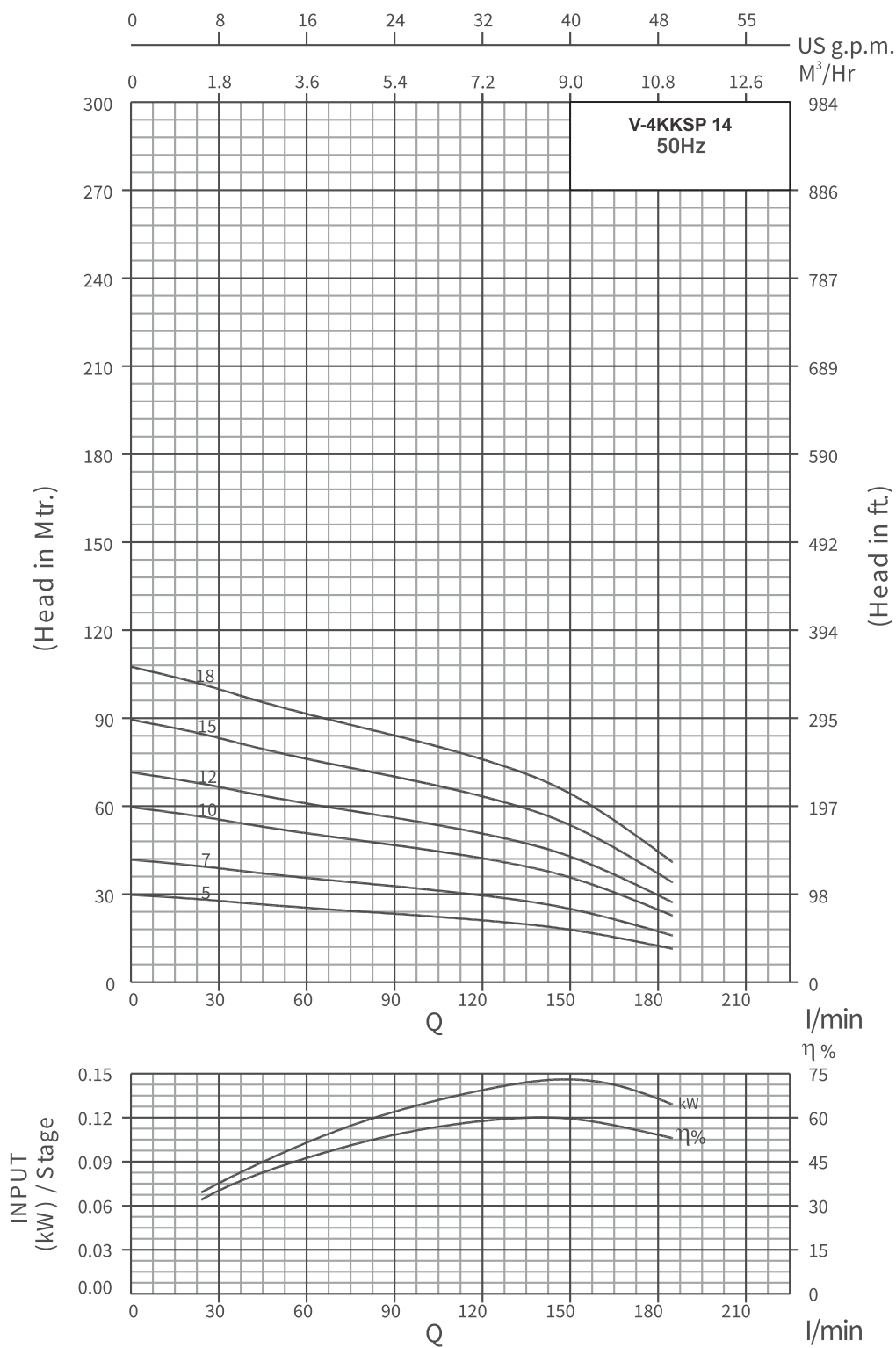
Annexure A V-4 KKSP14 ISO 10002:2014

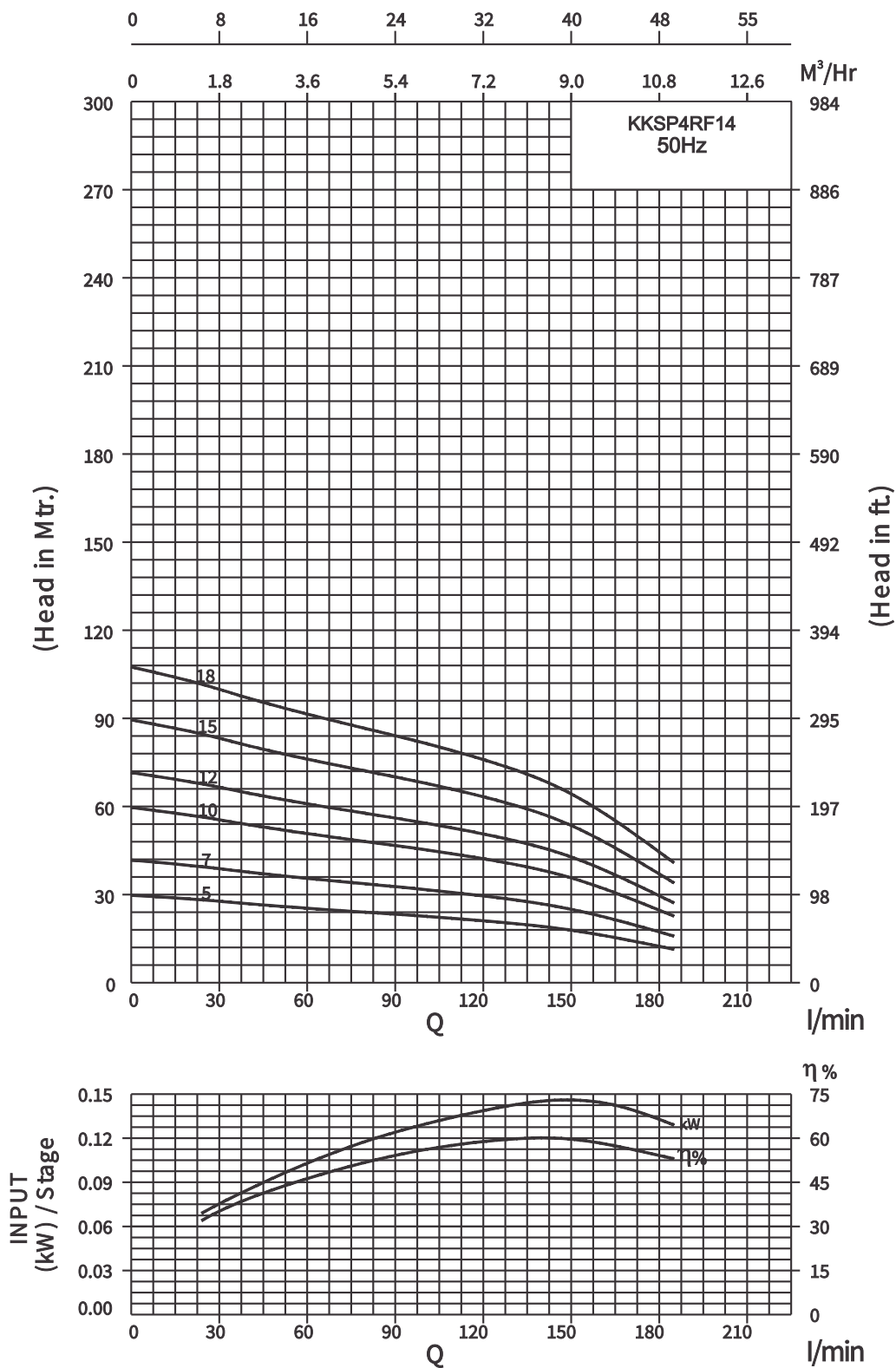
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Performance Curve

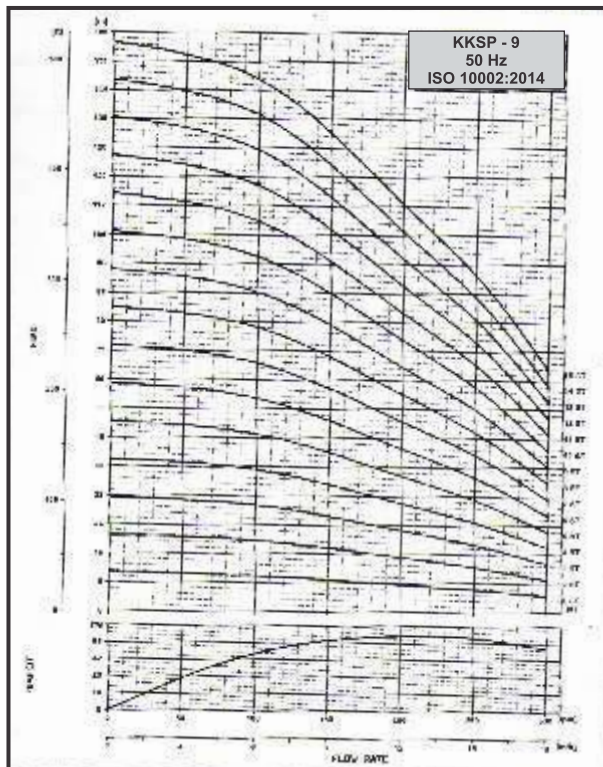
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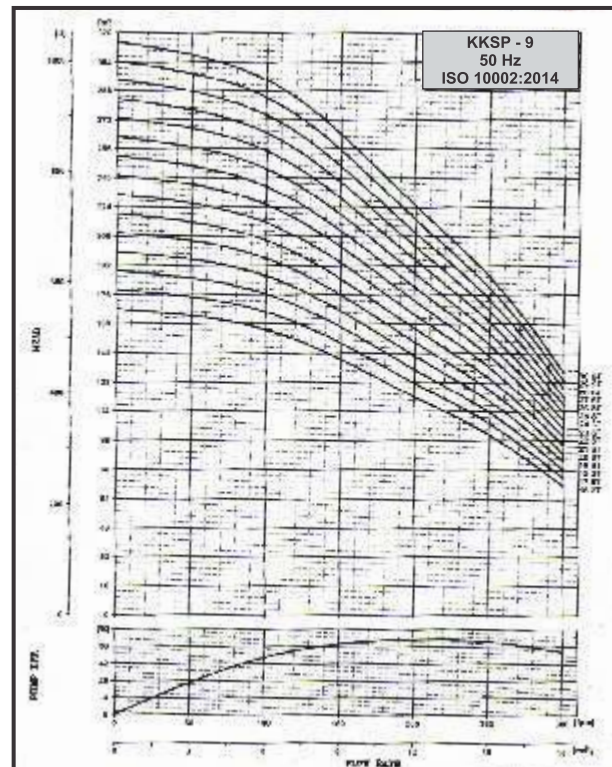


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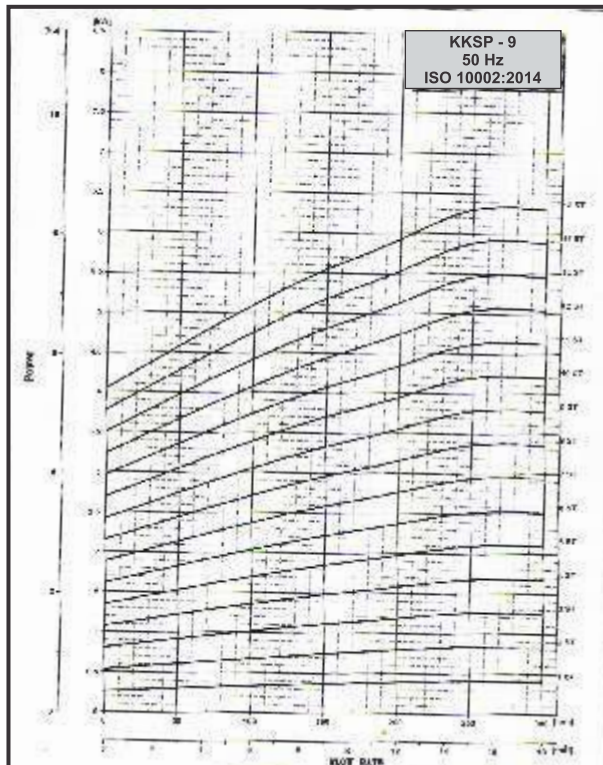
Performance Curve



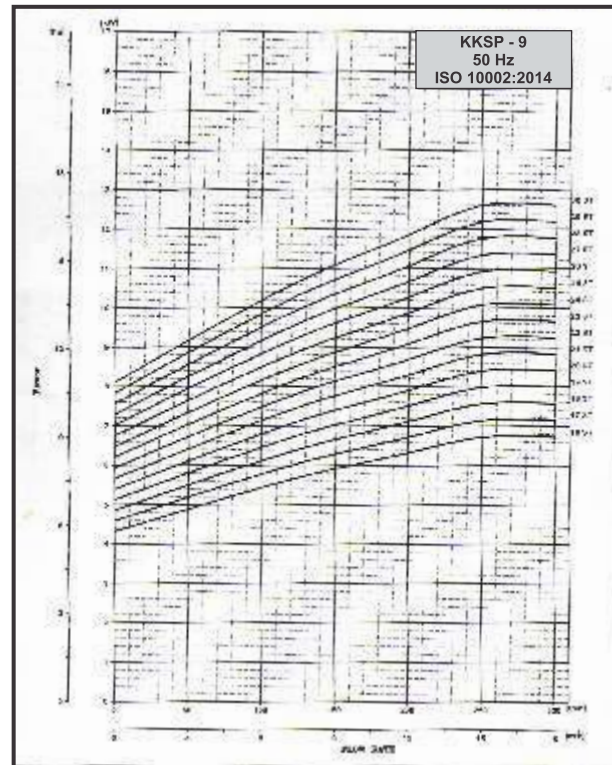
Performance Curve



Power Curve

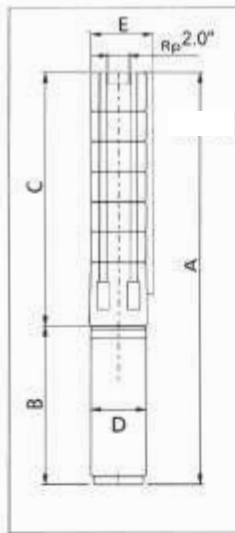


Power Curve





Dimensions, Weights and Performance Table



Model - Stage		Discharges (Q)					Dimensions in (mm)Rp				Pump Net Weight In Kgs
	m³ / hrs Ltr / Min.	6 100	8 133	10 167	12 200	14 233	2.0" Thread Connection				
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-9 - 1	0.55 / 0.75	12	10	8	7	6	318	670	95	131	8
KKSP-9 - 2	1.1 / 1.5	22	20	17	14	13	378	760	95	131	10
KKSP-9 - 3	1.5 / 2.0	32	30	28	21	19	439	800	95	131	11
KKSP-9 - 4	2.2 / 3.0	39	38	36	28	25	499	952	95	131	12
KKSP-9 - 5	2.2 / 3.0	49	46	42	35	32	560	1013	95	131	13
KKSP-9 - 6	3.0 / 4.0	58	54	50	48	38	620	1112	95	131	15
KKSP-9 - 7	3.0 / 4.0	69	66	58	55	44	681	1173	95	131	16
KKSP-9 - 8	3.7 / 5.0	78	76	70	60	51	741	1313	95	131	17
KKSP-9 - 9	4.0 / 5.5	84	83	78	68	57	802	1374	95	131	18
KKSP-9 - 10	4.0 / 5.5	98	94	86	76	63	879	1434	95	131	19
KKSP-9 - 11	5.5 / 7.5	105	102	96	84	70	940	1462	145	145	21
KKSP-9 - 12	5.5 / 7.5	118	114	102	90	76	1000	1522	145	145	22
KKSP-9 - 13	5.5 / 7.5	127	120	110	98	82	1061	1614	145	145	23
KKSP-9 - 14	7.5 / 10.0	137	134	120	106	89	1121	1690	145	145	24
KKSP-9 - 15	7.5 / 10.0	147	144	126	115	95	1182	1751	145	145	26
KKSP-9 - 16	7.5 / 10.0	157	151	134	121	101	1242	1811	145	145	27
KKSP-9 - 17	7.5 / 10.0	167	158	140	129	108	1303	1902	145	145	28
KKSP-9 - 18	7.5 / 10.0	177	166	148	136	114	1363	1962	145	145	29
KKSP-9 - 19	9.2 / 12.5	186	172	158	144	120	1424	2029	145	145	31
KKSP-9 - 20	9.2 / 12.5	196	180	166	151	127	1484	2083	145	145	32
KKSP-9 - 21	9.2 / 12.5	206	195	178	159	133	1545	2175	145	145	33
KKSP-9 - 22	9.2 / 12.5	216	202	185	167	139	1605	2235	145	145	34
KKSP-9 - 23	11.0 / 15.0	224	210	190	174	146	1666	2296	145	145	35
KKSP-9 - 24	11.0 / 15.0	234	220	200	182	152	1726	2356	145	145	37
KKSP-9 - 25	11.0 / 15.0	244	230	208	189	158	1787	2448	145	145	38
KKSP-9 - 26	11.0 / 15.0	255	239	216	197	165	1847	2508	145	145	39
KKSP-9 - 27	13.0 / 17.5	263	246	225	204	171	1908	2567	145	145	40
KKSP-9 - 28	13.0 / 17.5	273	256	233	212	177	1968	2627	145	145	42
KKSP-9 - 29	13.0 / 17.5	285	265	242	220	184	2029	2722	145	145	43
KKSP-9 - 30	13.0 / 17.5	295	273	250	227	190	2089	2783	145	145	44
KKSP-9 - 31	13.0 / 17.5	305	282	258	235	196	2150	2823	145	145	45
KKSP-9 - 32	15.0 / 20.0	315	290	267	242	203	2210	2903	145	145	47
KKSP-9 - 33	15.0 / 20.0	325	300	276	250	209	2271	2964	145	145	48
KKSP-9 - 34	15.0 / 20.0	335	310	284	257	215	2331	3080	145	145	49
KKSP-9 - 35	15.0 / 20.0	343	320	292	265	222	2392	3140	145	145	50
KKSP-9 - 36	15.0 / 20.0	352	330	300	273	228	2452	3200	145	145	51
KKSP-9 - 37	18.5 / 25.0	362	340	309	280	234	2513	3262	145	145	53
KKSP-9 - 38	18.5 / 25.0	372	348	318	288	241	2573	3322	145	145	54
KKSP-9 - 39	18.5 / 25.0	381	357	325	295	247	2633	3383	145	145	55
KKSP-9 - 40	18.5 / 25.0	391	366	332	303	253	2693	3443	145	145	56
KKSP-9 - 41	18.5 / 25.0	400	372	342	310	260	2753	3530	145	145	60
KKSP-9 - 42	18.5 / 25.0	410	382	350	318	266	2813	3621	145	145	63
KKSP-9 - 43	18.5 / 25.0	320	392	360	326	272	2873	3681	145	145	66
KKSP-9 - 44	18.5 / 25.0	430	401	368	333	279	2933	3741	145	145	70

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Performance Curve - KKMP 12

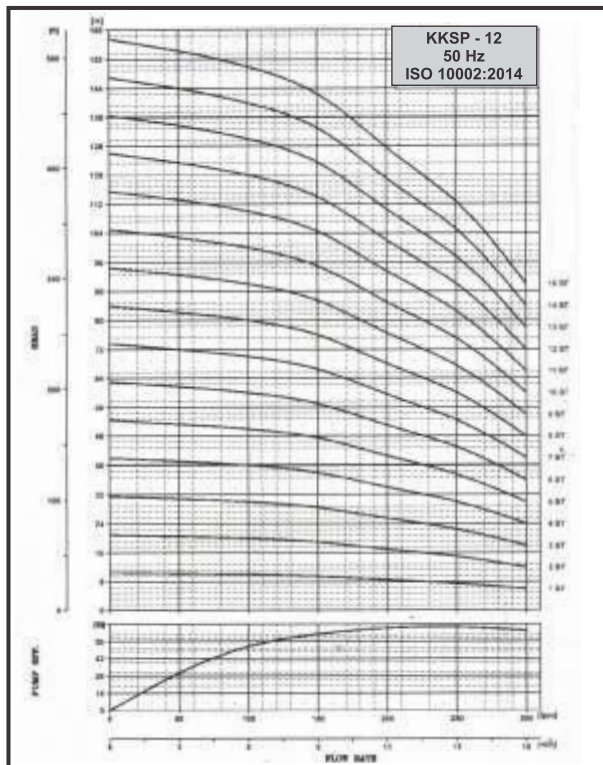
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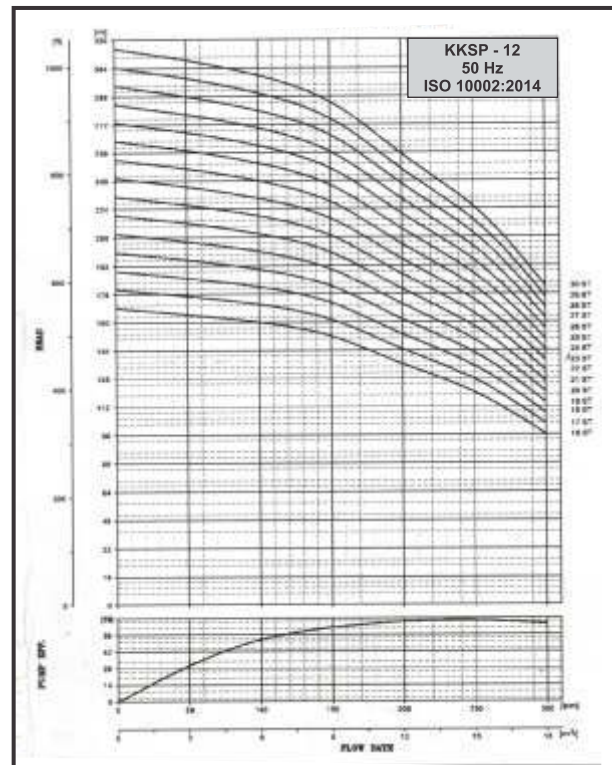


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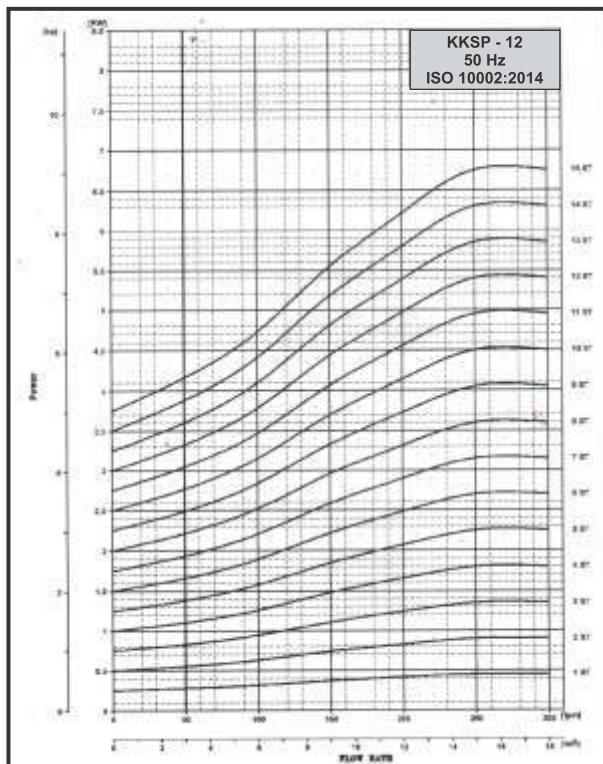
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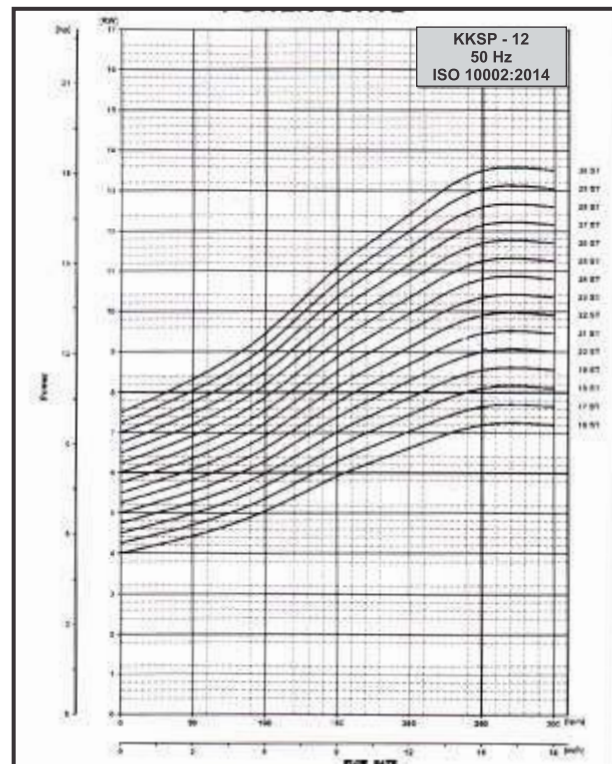
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Power Curve



Power Curve



Technical Data - KKMP 12

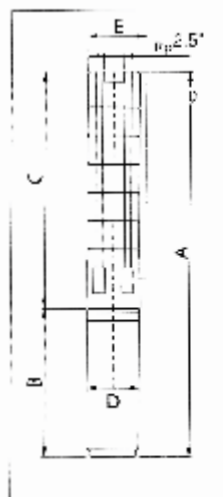
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Dimension, Weight & Performance Table



Model - Stage	m ³ / hrs Ltr / Min.	Discharges (Q)					Dimensions in (mm)				Pump Net Weight In Kgs
		8	10	12	14	16	Rp 3" Thread Connection				
		133	167	200	233	267					
	Motor kw / HP	Total Head In Meters					C	A	D*	E**	
KKSP-12 - 1	0.55 / 0.75	10	10	9	8	6	318	670	95	131	8
KKSP-12 - 2	1.1 / 1.5	19	18	17	15	13	378	760	95	131	10
KKSP-12 - 3	1.5 / 2.0	29	27	26	23	19	439	800	95	131	11
KKSP-12 - 4	2.2 / 3.0	38	36	34	30	26	499	952	95	131	12
KKSP-12 - 5	2.2 / 3.0	48	45	43	38	33	560	1013	95	131	13
KKSP-12 - 5	3.0 / 4.0	57	54	51	45	39	620	1112	95	131	15
KKSP-12 - 7	3.0 / 4.0	67	63	60	53	46	681	1173	95	131	16
KKSP-12 - 8	3.7 / 5.0	76	72	69	60	52	741	1313	95	131	17
KKSP-12 - 9	4.0 / 5.5	86	81	77	68	58	802	1374	95	131	18
KKSP-12 - 10	4.0 / 5.5	95	90	85	75	65	879	1434	95	131	19
KKSP-12 - 11	5.5 / 7.5	105	99	94	83	72	940	1462	145	145	21
KKSP-12 - 12	5.5 / 7.5	114	108	102	90	78	1000	1522	145	145	22
KKSP-12 - 13	5.5 / 7.5	124	117	111	98	85	1061	1614	145	145	23
KKSP-12 - 14	7.5 / 10.0	133	126	119	105	92	1121	1690	145	145	24
KKSP-12 - 15	7.5 / 10.0	143	135	128	113	98	1182	1751	145	145	26
KKSP-12 - 16	7.5 / 10.0	152	144	136	120	104	1242	1811	145	145	27
KKSP-12 - 17	7.5 / 10.0	152	153	145	128	111	1303	1902	145	145	28
KKSP-12 - 18	9.2 / 12.5	171	162	153	135	118	1363	1962	145	145	29
KKSP-12 - 19	9.2 / 12.5	181	171	162	143	124	1424	2029	145	145	31
KKSP-12 - 20	9.2 / 12.5	190	180	170	150	131	1484	2083	145	145	32
KKSP-12 - 21	9.2 / 12.5	200	189	179	158	136	1545	2175	145	145	33
KKSP-12 - 22	11.0 / 15.0	209	198	187	165	142	1505	2235	145	145	34
KKSP-12 - 23	11.0 / 15.0	219	207	196	173	150	1666	2296	145	145	35
KKSP-12 - 24	11.0 / 15.0	228	216	204	180	158	1726	2356	145	145	37
KKSP-12 - 25	11.0 / 15.0	238	225	213	188	163	1787	2448	145	145	38
KKSP-12 - 26	13.0 / 17.5	247	234	221	195	170	1847	2506	145	145	39
KKSP-12 - 27	13.0 / 17.5	257	243	230	203	177	1908	2567	145	145	40
KKSP-12 - 28	13.0 / 17.5	266	252	238	210	183	1968	2627	145	145	42
KKSP-12 - 29	13.0 / 17.5	276	261	347	216	190	2029	2722	145	145	43
KKSP-12 - 30	15.0 / 20.0	285	270	255	225	196	2089	2782	145	145	44
KKSP-12 - 31	15.0 / 20.0	295	279	264	233	202	2150	2843	145	145	45
KKSP-12 - 32	15.0 / 20.0	304	288	274	240	210	2210	2903	145	145	47
KKSP-12 - 33	15.0 / 20.0	314	297	281	248	217	2271	2964	145	145	48
KKSP-12 - 34	15.0 / 20.0	323	306	289	255	222	2331	3080	145	145	49
KKSP-12 - 35	18.5 / 25.0	333	315	298	263	230	2392	3141	145	145	50
KKSP-12 - 36	18.5 / 25.0	342	324	306	270	235	2452	3201	145	145	51
KKSP-12 - 37	18.5 / 25.0	352	333	315	278	242	2513	3262	145	145	53
KKSP-12 - 38	18.5 / 25.0	361	342	323	285	248	2573	3322	145	145	54
KKSP-12 - 39	18.5 / 25.0	371	351	332	293	255	2633	3383	145	145	55
KKSP-12 - 40	18.5 / 25.0	380	360	340	300	262	2693	3443	145	145	56
KKSP-12 - 41	18.5 / 25.0	389	369	348	307	268	2753	3503	145	145	60
KKSP-12 - 42	18.5 / 25.0	399	378	357	315	275	2813	3621	145	145	63
KKSP-12 - 43	22.0 / 30.0	418	387	365	322	281	2873	3661	145	145	66
KKSP-12 - 44	22.0 / 30.0	418	396	374	330	288	2933	3721	145	145	70

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Performance Curve - KKMP 17

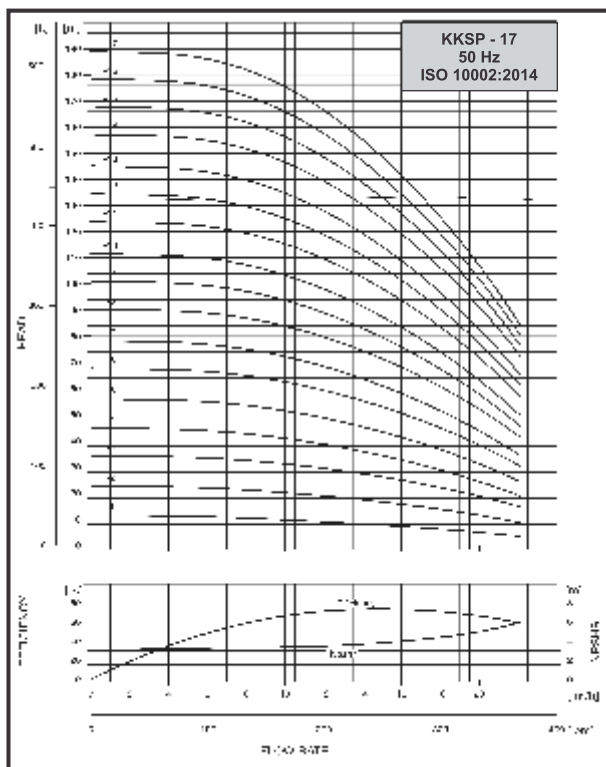
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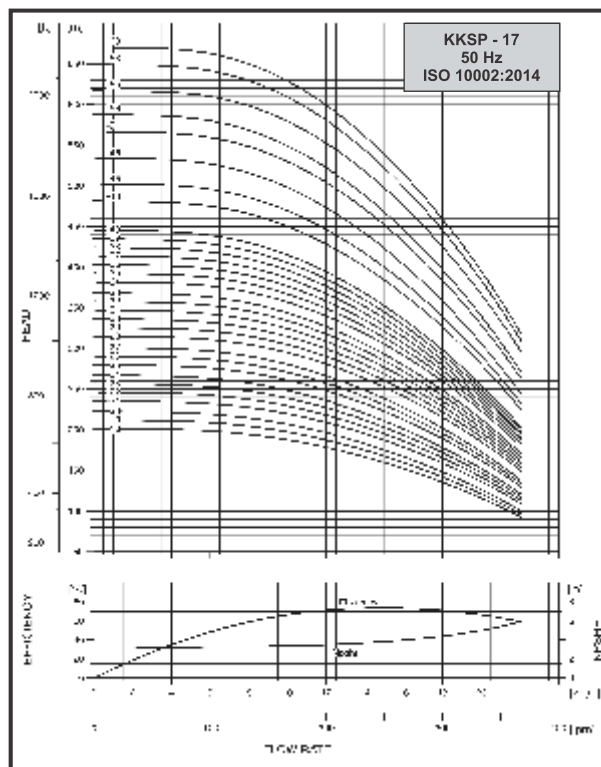


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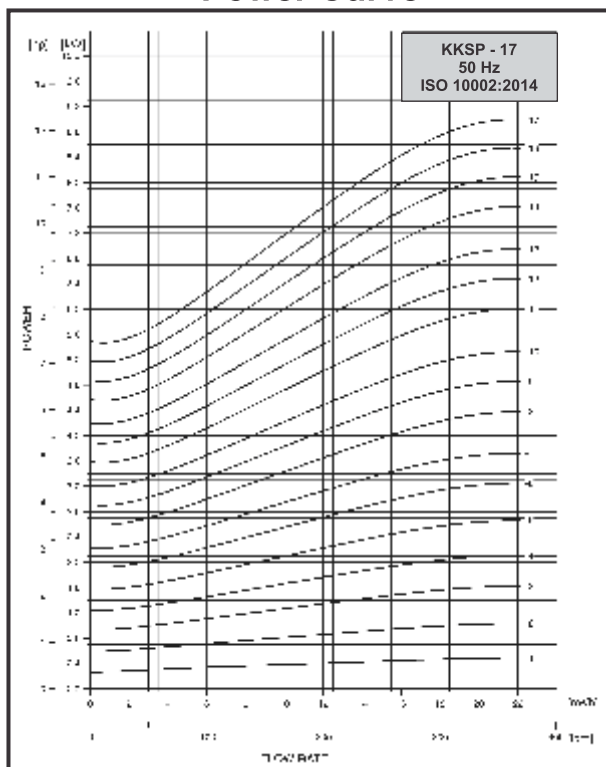
Performance Curve



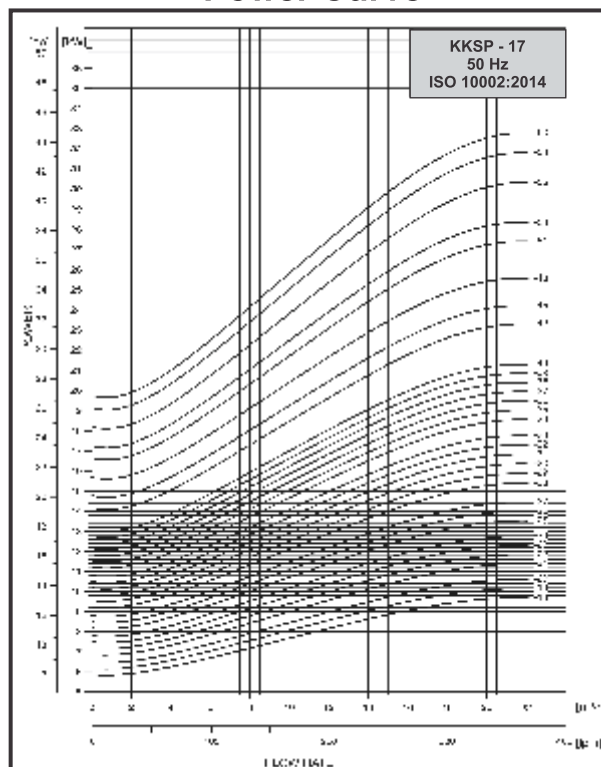
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Power Curve



Power Curve



Technical Data - KKMP 17

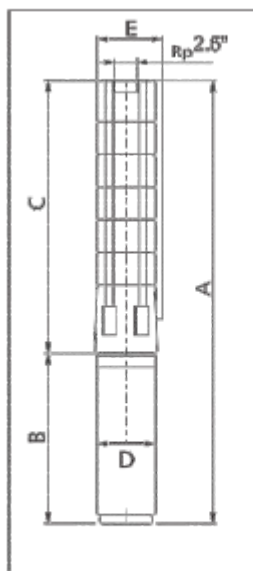
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Dimensions, Weights and Performance Table



KKSP 17 - 43 to KKSP 17-60
pumps are mounted in S.S.
Sleeve.

Model - Stage	Discharges (Q)						Dimensions in (mm)				Pump Net Weight In Kgs	
	m³ / hrs	12	14	16	18	20	Rp 2.5" Thread Connection					
	Ltr / Min.	200	233	267	300	333	C	A	D*	E**		
	Motor kw / HP	Total Head in Meters										
KKSP-17 - 1	0.55 / 0.75	9	8	7	6	5	314	558	95	131	7	
KKSP-17 - 2	1.1 / 1.5	19	17	16	14	12	374	683	95	131	9	
KKSP-17 - 3	2.2 / 3.0	29	27	25	22	19	435	783	95	131	10	
KKSP-17 - 4	2.2 / 3.0	39	36	33	29	24	495	843	95	131	11	
KKSP-17 - 5	3 / 4.0	49	45	41	37	31	556	1052	95	131	12	
KKSP-17 - 6	4 / 5.5	59	55	50	45	38	616	1192	95	131	14	
KKSP-17 - 7	4 / 5.5	68	64	58	52	44	677	1253	95	131	15	
KKSP-17 - 8	5.5 / 7.5	80	74	68	61	52	737	1412	95	131	16	
KKSP-17 - 9	5.5 / 7.5	89	83	76	67	58	798	1473	95	131	17	
KKSP-17 - 10	5.5 / 7.5	98	91	83	74	63	858	1533	95	131	18	
KKSP-17 - 11	7.5 / 10	110	102	94	84	72	919	1696	95	131	20	
KKSP-17 - 12	7.5 / 10	119	111	101	90	77	979	1756	95	131	21	
KKSP-17 - 13	7.5 / 10	128	119	109	97	83	1040	1817	95	131	22	
KKSP-17 - 8	5.5 / 7.5	80	74	68	61	52	737	1280	145	143	16	
KKSP-17 - 9	5.5 / 7.5	89	83	76	67	58	798	1341	145	143	17	
KKSP-17 - 10	5.5 / 7.5	98	91	83	74	63	858	1401	145	143	18	
KKSP-17 - 11	7.5 / 10	110	102	94	84	72	919	1493	145	143	20	
KKSP-17 - 12	7.5 / 10	119	111	101	90	77	979	1553	145	143	21	
KKSP-17 - 13	7.5 / 10	128	119	109	97	83	1040	1614	145	143	22	
KKSP-17 - 14	9.2 / 12.5	139	130	119	106	91	1116	1720	145	143	23	
KKSP-17 - 15	9.2 / 12.5	149	139	127	113	97	1177	1781	145	143	25	
KKSP-17 - 16	9.2 / 12.5	158	147	134	119	102	1237	1841	145	143	26	
KKSP-17 - 17	9.2 / 12.5	166	155	141	126	107	1298	1902	145	143	27	
KKSP-17 - 18	11 / 15	178	167	152	136	116	1358	1993	145	143	28	
KKSP-17 - 19	11 / 15	187	175	160	142	121	1419	2054	145	143	30	
KKSP-17 - 20	11 / 15	196	183	167	148	126	1479	2114	145	143	31	
KKSP-17 - 21	13 / 17.5	209	195	179	159	137	1540	2204	145	143	32	
KKSP-17 - 22	13 / 17.5	218	204	186	166	142	1600	2264	145	143	33	
KKSP-17 - 23	13 / 17.5	227	212	193	172	147	1661	2325	145	143	34	
KKSP-17 - 24	13 / 17.5	236	220	201	178	152	1721	2385	145	143	36	
KKSP-17 - 25	15 / 20	248	232	212	189	162	1782	2480	145	143	37	
KKSP-17 - 26	15 / 20	257	240	220	196	168	1842	2540	145	143	38	
KKSP-17 - 27	15 / 20	266	249	227	202	173	1903	2601	145	143	39	
KKSP-17 - 28	18.5 / 25	281	263	241	215	186	1963	2717	145	143	41	
KKSP-17 - 29	18.5 / 25	290	272	249	222	191	2024	2778	145	143	42	
KKSP-17 - 30	18.5 / 25	299	280	257	229	197	2084	2838	145	143	43	
KKSP-17 - 31	18.5 / 25	309	289	264	236	202	2145	2899	145	143	44	
KKSP-17 - 32	18.5 / 25	318	297	272	242	208	2205	2959	145	143	46	
KKSP-17 - 33	18.5 / 25	327	305	279	249	213	2266	3020	145	143	47	
KKSP-17 - 34	22 / 30	340	318	291	260	223	2326	3138	145	143	48	
KKSP-17 - 35	22 / 30	349	326	299	266	229	2387	3199	145	143	49	
KKSP-17 - 36	22 / 30	358	335	306	273	234	2447	3259	145	143	50	
KKSP-17 - 37	22 / 30	367	343	314	279	240	2508	3320	145	143	52	
KKSP-17 - 38	22 / 30	376	351	321	286	245	2568	3381	145	143	53	
KKSP-17 - 39	22 / 30	385	360	328	292	250	2629	3441	145	143	54	
KKSP-17 - 40	22 / 30	394	368	336	298	255	2689	3501	145	143	55	
KKSP-17 - 43	26 / 35	428	400	366	326	280	3118	3992	145	143	92	
KKSP-17 - 45	26 / 35	446	417	381	339	291	3239	4113	145	143	98	
KKSP-17 - 48	26 / 35	473	441	403	358	306	3420	4294	145	143	106	
KKSP-17 - 51	30 / 40	502	468	428	380	325	3602	4546	145	143	104	
KKSP-17 - 53	30 / 40	522	486	445	395	338	3723	4667	145	143	109	
KKSP-17 - 55	30 / 40	542	505	462	410	351	3844	4788	145	143	118	
KKSP-17 - 51	30 / 40	502	468	428	380	325	3602	4742	145	143	104	
KKSP-17 - 53	30 / 40	522	486	445	395	338	3723	4863	145	143	109	
KKSP-17 - 55	30 / 40	542	505	462	410	351	3844	4984	188	188	118	
KKSP-17 - 58	37 / 50	571	533	487	433	370	4025	5165	188	188	127	
KKSP-17 - 60	37 / 50	591	551	504	447	382	4146	5286	188	188	132	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Performance Curve - KKMP 30

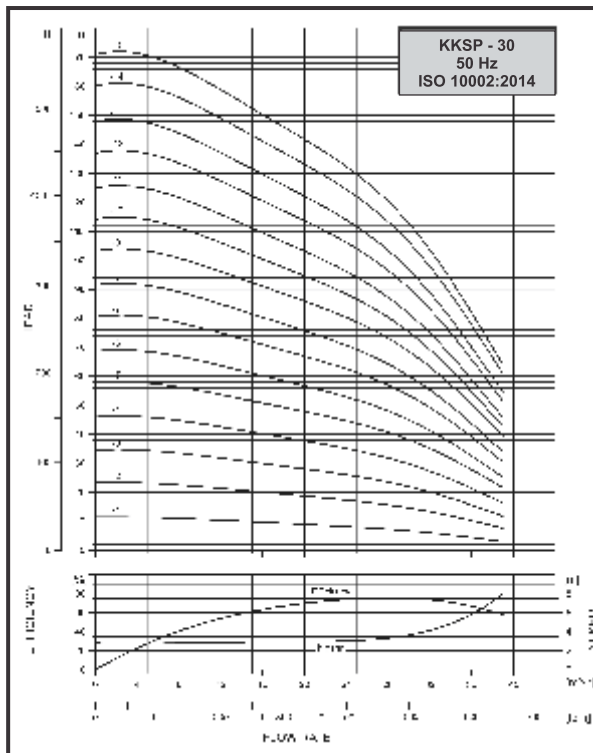
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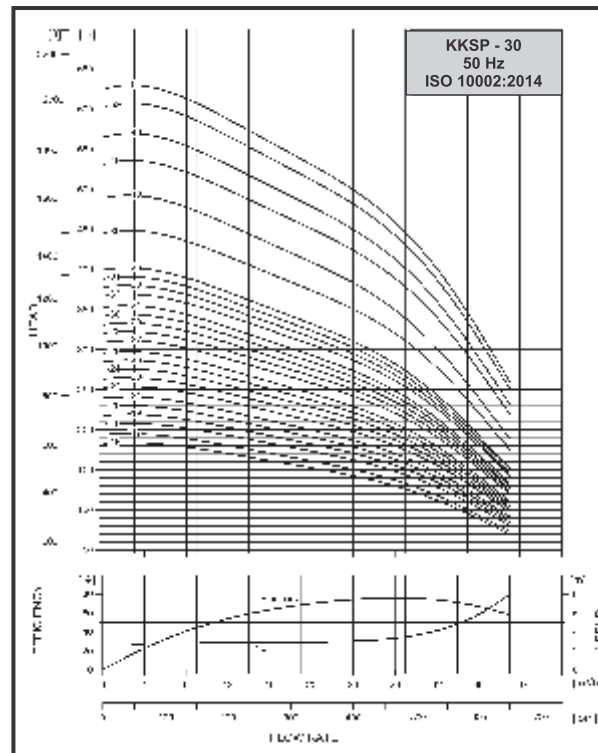


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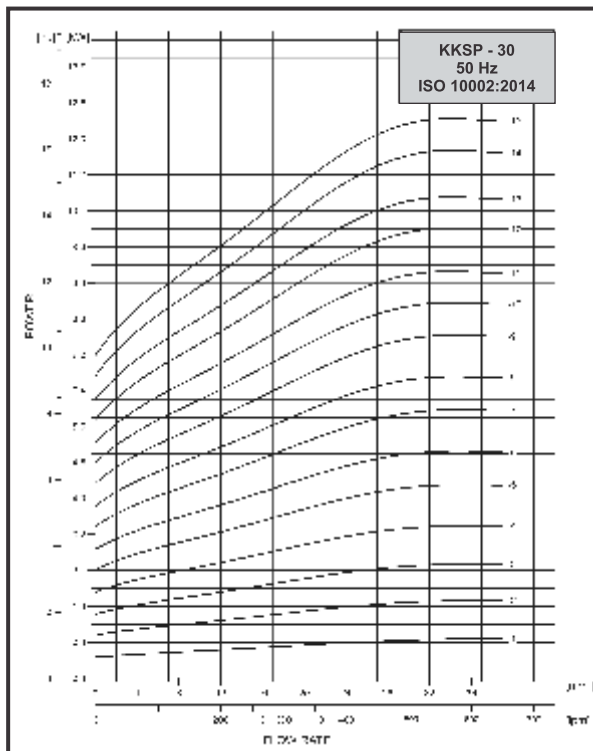
Performance Curve



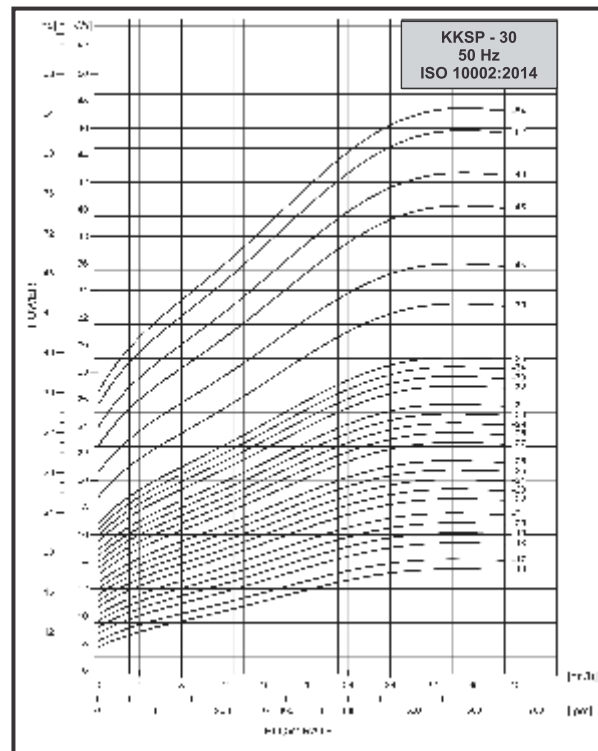
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Power Curve



Technical Data - KKMP 30

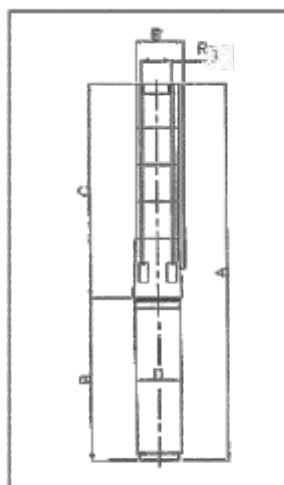
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Dimensions, Weights and Performance Table



KKSP 30 - 39 to KKSP 30-54
mounted in S.S. Pipe Sleeve.

Model - Stage	Discharges (Q)						Dimensions in (mm)				Pump Net Weight In Kgs
	m³ / hrs	20	24	28	32	39	Rp 3" Thread Connection				
	Ltr / Min.	333	400	467	533	650					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-30 1	1.1 / 1.5	9	8	7	6	3	349	658	95	131	8
KKSP-30 2	2.2 / 3	19	17	16	13	8	445	902	95	131	10
KKSP-30 3	3 / 4.0	28	26	24	20	12	541	1037	95	131	12
KKSP-30 4	4 / 5.5	38	35	32	27	16	637	1213	95	131	14
KKSP-30 5	5.5 / 7.5	48	45	41	35	22	733	1409	95	131	16
KKSP-30 6	5.5 / 7.5	57	53	48	41	25	829	1505	95	131	18
KKSP-30 7	7.5 / 10	67	63	57	49	31	925	1702	95	131	20
KKSP-30 8	7.5 / 10	76	71	64	55	34	1021	1798	95	131	22
KKSP-30 5	5.5 / 7.5	48	45	41	35	22	749	1292	145	145	16
KKSP-30 6	5.5 / 7.5	57	53	48	41	25	845	1388	145	145	18
KKSP-30 7	7.5 / 10	67	63	57	49	31	941	1515	145	145	20
KKSP-30 8	7.5 / 10	76	71	64	55	34	1037	1611	145	145	22
KKSP-30 9	9.2 / 12.5	86	80	73	63	39	1133	1737	145	145	24
KKSP-30 10	9.2 / 12.5	95	88	80	69	43	1229	1833	145	145	25
KKSP-30 11	9.2 / 12.5	103	96	87	75	46	1325	1929	145	145	27
KKSP-30 12	11 / 15	114	106	97	83	51	1421	2056	145	145	29
KKSP-30 13	11 / 15	122	114	103	89	55	1517	2152	145	145	31
KKSP-30 14	13 / 17.5	133	125	113	98	61	1613	2277	145	145	33
KKSP-30 15	13 / 17.5	142	132	120	104	64	1709	2373	145	145	35
KKSP-30 16	15 / 20	153	143	130	112	70	1805	2503	145	145	37
KKSP-30 17	15 / 20	161	151	137	118	74	1901	2599	145	145	39
KKSP-30 18	18.5 / 25	173	163	148	129	82	1997	2751	145	145	41
KKSP-30 19	18.5 / 25	182	171	156	135	85	2093	2847	145	145	42
KKSP-30 20	18.5 / 25	191	179	163	141	89	2189	2943	145	145	44
KKSP-30 21	18.5 / 25	200	187	170	147	92	2285	3039	145	145	46
KKSP-30 22	22 / 30	211	198	180	156	99	2381	3193	145	145	48
KKSP-30 23	22 / 30	220	206	188	162	102	2477	3289	145	145	50
KKSP-30 24	22 / 30	228	214	195	168	105	2573	3385	145	145	52
KKSP-30 25	22 / 30	237	221	201	174	108	2669	3481	145	145	54
KKSP-30 26	22 / 30	245	229	208	179	111	2765	3577	145	145	56
KKSP-30 27	26 / 35	259	242	221	191	121	2861	3735	145	145	58
KKSP-30 28	26 / 35	267	250	228	197	124	2957	3831	145	145	59
KKSP-30 29	26 / 35	276	258	235	203	127	3053	3927	145	145	61
KKSP-30 30	26 / 35	284	266	242	209	130	3149	4023	145	145	63
KKSP-30 31	30 / 40	293	274	249	215	133	3245	4189	145	145	65
KKSP-30 32	30 / 40	306	287	262	227	143	3341	4285	145	145	67
KKSP-30 33	30 / 40	315	295	269	232	146	3437	4381	145	145	69
KKSP-30 34	30 / 40	324	303	276	238	149	3533	4477	145	145	71
KKSP-30 35	30 / 40	332	310	283	244	152	3629	4573	145	145	73
KKSP-30 31	30 / 40	293	274	249	215	133	3245	4385	188	188	65
KKSP-30 32	30 / 40	306	287	262	227	143	3341	4481	188	188	67
KKSP-30 33	30 / 40	315	295	269	232	146	3437	4577	188	188	69
KKSP-30 34	30 / 40	324	303	276	238	149	3533	4673	188	188	71
KKSP-30 35	30 / 40	332	310	283	244	152	3629	4769	188	188	73
KKSP-30 39	37 / 50	374	351	320	278	176	4260	5400	188	188	99
KKSP-30 43	37 / 50	409	383	350	303	190	4644	5784	188	188	112
KKSP-30 46	45 / 60	451	424	389	341	220	4881	6111	188	188	122
KKSP-30 49	45 / 60	478	450	413	361	233	5169	6399	188	188	132
KKSP-30 52	55 / 75	-	-	-	-	-	5457	6797	188	188	142
KKSP-30 54	55 / 75	-	-	-	-	-	5649	6989	188	188	148

* Motor type / size may change as per requirement.

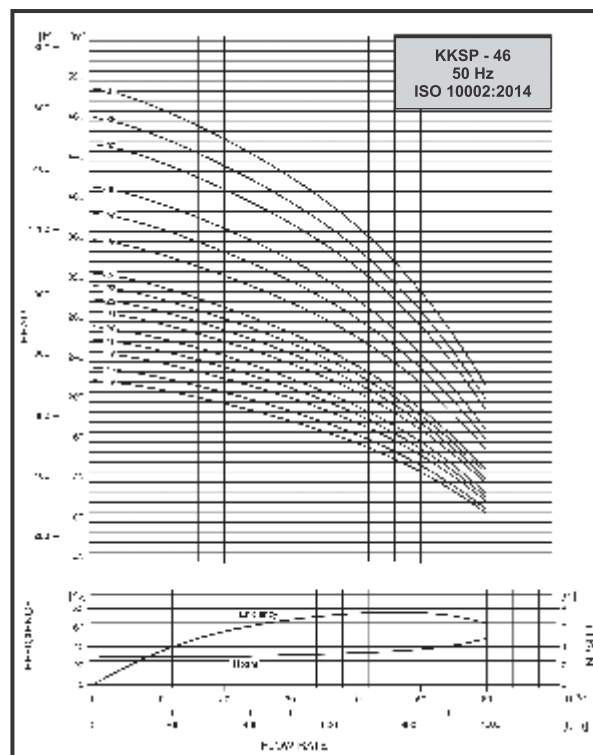
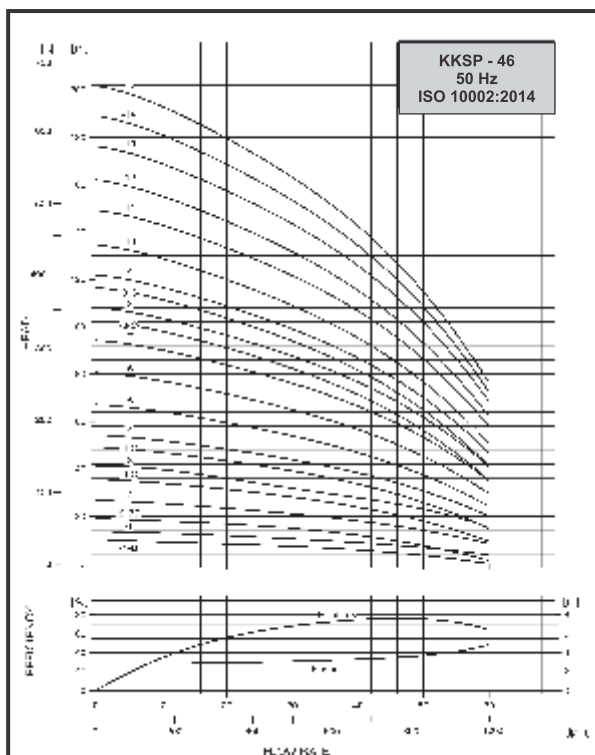
** Maximum diameter of pump with two cable guard.

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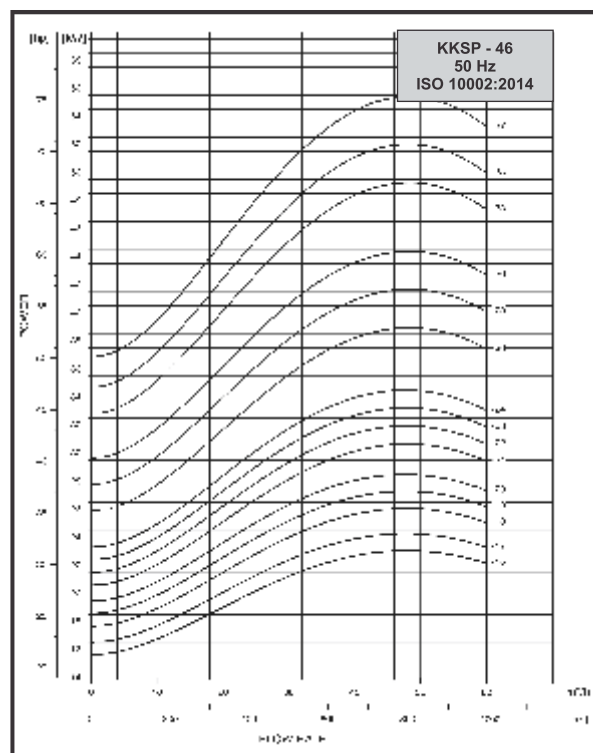
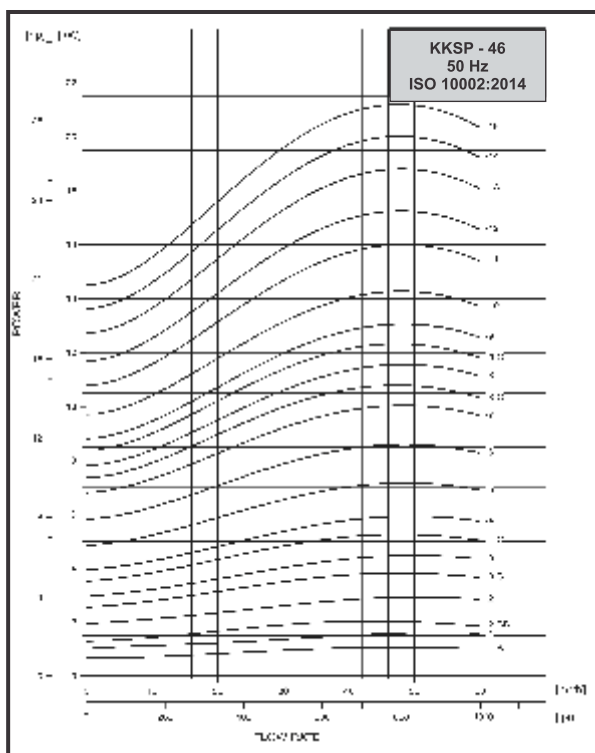


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Performance Curve



Power Curve



Technical Data - KKMP 46

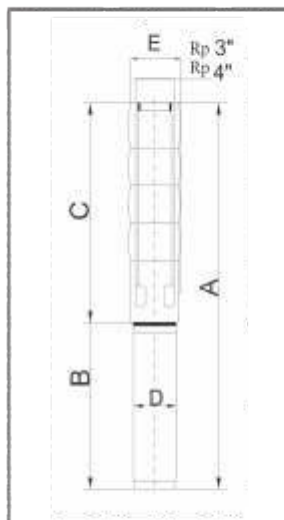
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Dimensions, Weights and Performance Table



KKSP 46 - 26 to KKSP 46 - 37
mounted in S.S. Pipe Sleeve.

Model - Stage	Discharges (Q)						Dimensions in (mm)				Pump Net Weight In Kgs
	m³ / hrs	35	40	45	50	55	Rp 4" Thread Connection				
	Ltr / Min.	583	667	750	833	917					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-46- 1-B	1.1 / 1.5	-	-	-	-	-	370	679	95	145	6
KKSP-46- 1	2.2 / 3.0	-	-	-	-	-	370	718	95	145	6
KKSP-46- 2-8B	2.2 / 3.0	14	12	10	8	5	483	831	95	145	8
KKSP-46- 2	3 / 4.0	20	18	16	14	11	483	979	95	145	8
KKSP-46- 3-C	4 / 5.5	26	24	21	18	14	596	1170	95	145	11
KKSP-46- 3	5.5 / 7.5	30	28	26	23	20	596	1271	95	145	11
KKSP-46- 4-C	5.5 / 7.5	37	34	30	26	21	709	1366	95	145	13
KKSP-46- 4	7.5 / 10	41	38	35	31	26	709	1486	95	145	13
KKSP-46- 3	5.5 / 7.5	30	28	26	23	20	612	1156	145	152	12
KKSP-46- 4-C	5.5 / 7.5	37	34	30	26	21	709	1253	145	152	14
KKSP-46- 4	7.5 / 10	41	38	35	31	26	725	1299	145	152	14
KKSP-46- 5	7.5 / 10	51	47	43	37	31	838	1412	145	152	16
KKSP-46- 6	9.2 / 12.5	61	57	51	45	38	951	1555	145	152	18
KKSP-46- 7	11 / 15	72	66	60	53	45	1064	1698	145	152	20
KKSP-46- 8-C	11 / 15	77	71	64	56	46	1177	1811	145	152	22
KKSP-46- 8	13 / 17.5	83	77	70	62	52	1177	1841	145	152	22
KKSP-46- 9-C	13 / 17.5	88	82	74	65	54	1290	1954	145	152	24
KKSP-46- 9	15 / 20	93	87	79	70	59	1290	1988	145	152	24
KKSP-46- 10	15 / 20	103	95	87	77	65	1403	2101	145	152	27
KKSP-46- 11	18.5 / 25	115	107	97	86	73	1516	2270	145	152	29
KKSP-46- 12	18.5 / 25	124	115	105	93	79	1629	2383	145	152	31
KKSP-46- 13	22 / 30	135	126	115	102	86	1855	2667	145	152	34
KKSP-46- 14	22 / 30	144	134	122	108	92	1855	2667	145	152	35
KKSP-46- 15	22 / 30	154	143	130	115	97	1968	2780	145	152	38
KKSP-46- 16	26 / 35	166	155	141	125	106	2081	2955	145	152	41
KKSP-46- 17	26 / 35	175	163	149	132	112	2194	3068	145	152	43
KKSP-46- 18	30 / 40	188	175	160	142	121	2307	3251	145	152	45
KKSP-46- 19	30 / 40	197	183	167	148	126	2420	3364	145	152	47
KKSP-46- 20	30 / 40	206	192	175	155	132	2613	3557	145	152	50
KKSP-46- 18	30 / 40	188	175	160	142	121	2307	3447	145	152	47
KKSP-46- 19	30 / 40	197	183	167	148	126	2420	3560	145	152	49
KKSP-46- 20	30 / 40	206	192	175	155	132	2613	3753	145	152	52
KKSP-46- 21	37 / 50	221	206	188	167	143	2726	3866	188	188	54
KKSP-46- 22	37 / 50	230	215	196	174	148	2839	3979	188	188	56
KKSP-46- 23	37 / 50	240	223	204	181	154	2952	4092	188	188	57
KKSP-46- 24	37 / 50	249	232	212	188	160	3065	4205	188	188	59
KKSP-46- 26	45 / 60	279	261	239	214	183	3403	4633	188	188	90
KKSP-46- 28	45 / 60	299	280	256	229	196	3629	4859	188	188	99
KKSP-46- 30	45 / 60	319	298	273	244	208	3855	5085	188	188	108
KKSP-46- 33	55 / 75	354	331	303	271	232	4194	538	188	188	122
KKSP-46- 35	55 / 75	-	-	-	-	-	4420	5760	188	188	132
KKSP-46- 37	55 / 75	-	-	-	-	-	4646	5986	188	188	140

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Performance Curve - OMP 60

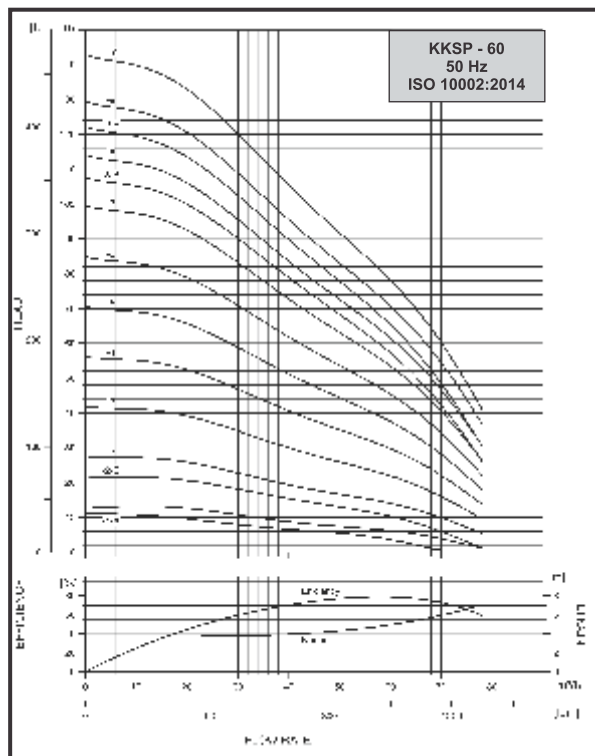
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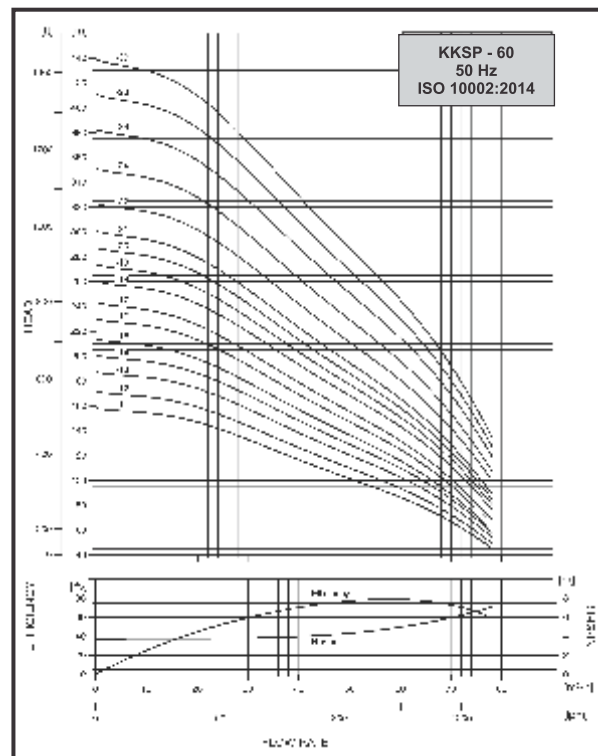


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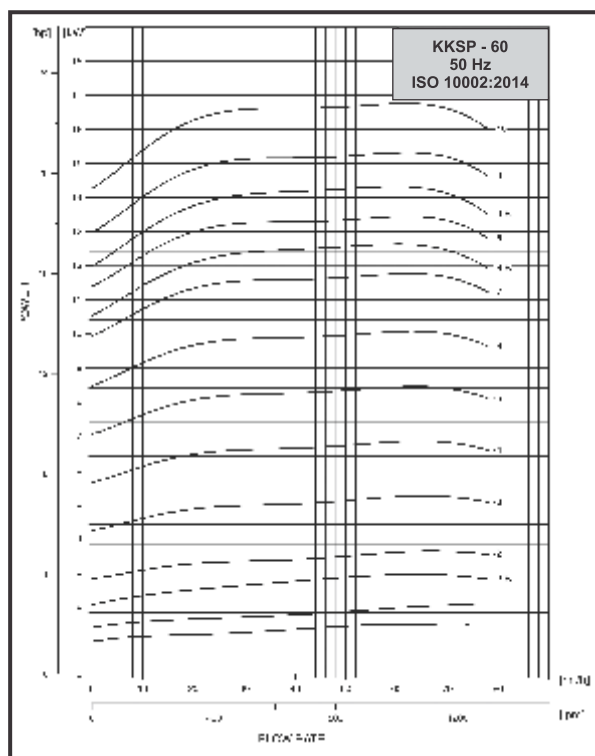
Performance Curve



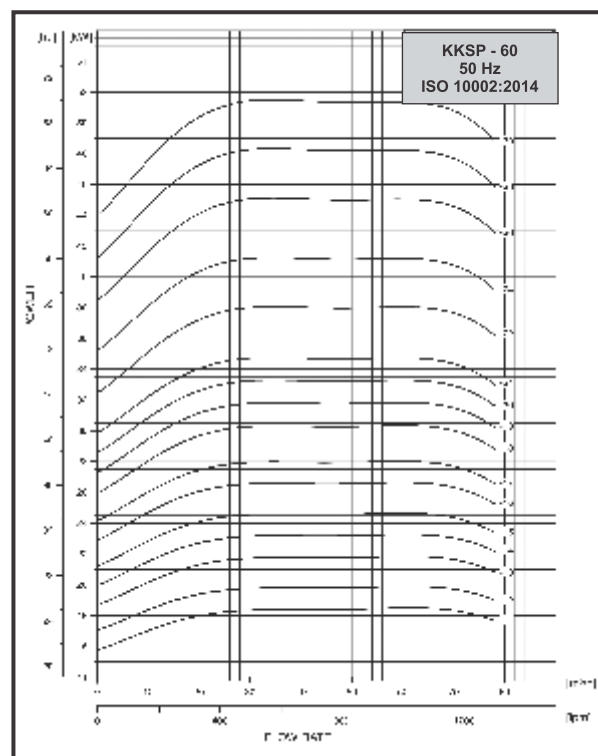
Performance Curve



Power Curve



Power Curve



Technical Data - KKMP 60

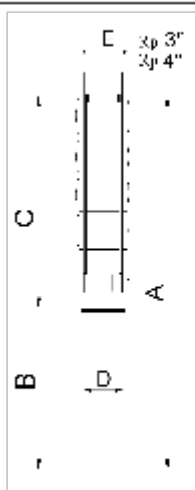
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Dimensions, Weights and Performance Table



Model - Stage		Discharges (Q)					Dimensions in (mm)				Pump Net Weight In Kgs
	m³ / hrs	40	50	60	70	78	Rp 4" Thread Connection				
	ltr / Min.	667	833	1000	1167	1300					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-60 1-A	1.5 / 2	-	-	-	-	-	370	865	95	145	6
KKSP-60 1	2.2 / 3	-	-	-	-	-	370	946	95	145	6
KKSP-60 2-B	3.0 / 4	15	13	10	6	1	483	977	95	145	8
KKSP-60 2	4 / 5.5	19	17	14	10	5	483	1059	95	145	8
KKSP-60 3	5.5 / 7.5	30	26	22	16	10	596	1271	95	145	10
KKSP-60 4	7.5 / 10	41	35	30	22	14	709	1486	95	145	12
KKSP-60 3	5.5 / 7.5	30	26	22	16	10	596	1139	145	152	11
KKSP-60 4	7.5 / 10	41	35	30	22	14	709	1283	145	152	13
KKSP-60 5	9.2 / 12.5	51	44	38	28	18	838	1447	145	152	15
KKSP-60 6	11 / 15	62	54	45	34	22	951	1586	145	152	17
KKSP-60 7	13 / 17.5	73	63	53	40	26	1064	1728	145	152	20
KKSP-60 8-B	13 / 17.5	79	68	57	42	26	1177	1841	145	152	22
KKSP-60 8	15 / 20	84	73	61	47	31	1177	1875	145	152	22
KKSP-60 9-B	15 / 20	90	78	65	48	30	1290	1988	145	152	24
KKSP-60 9	18.5 / 25	95	83	71	54	37	1290	2044	145	152	24
KKSP-60 10	18.5 / 25	105	92	78	60	41	1403	2157	145	152	27
KKSP-60 11	22 / 30	116	101	86	67	45	1516	2328	145	152	29
KKSP-60 12	22 / 30	126	110	94	72	50	1629	2441	145	152	31
KKSP-60 13	26 / 30	138	120	103	79	54	1742	2616	145	152	33
KKSP-60 14	26 / 30	148	129	110	85	58	1855	2729	145	152	35
KKSP-60 15	26 / 30	157	136	116	89	60	1968	2842	145	152	38
KKSP-60 16	30 / 40	169	147	125	96	65	2081	3025	145	152	40
KKSP-60 17	30 / 40	179	155	132	101	69	2194	3138	145	152	42
KKSP-60 16	30 / 40	169	147	125	96	65	2081	3025	188	188	42
KKSP-60 17	30 / 40	179	155	132	101	69	2194	3138	188	188	44
KKSP-60 18	37 / 50	193	168	143	111	77	2387	3527	188	188	46
KKSP-60 19	37 / 50	203	177	151	117	81	2500	3640	188	188	48
KKSP-60 20	37 / 50	213	186	158	123	85	2613	3753	188	188	50
KKSP-60 21	37 / 50	223	194	166	129	89	2726	3866	188	188	52
KKSP-60 22	45 / 60	242	211	181	142	100	2788	4018	188	188	54
KKSP-60 24	45 / 60	-	-	-	-	-	3177	4407	188	188	58
KKSP-60 26	55 / 75	-	-	-	-	-	3403	4743	188	188	67
KKSP-60 28	55 / 75	-	-	-	-	-	3629	4969	188	188	67
KKSP-60 30	55 / 75	-	-	-	-	-	3855	5195	188	188	71

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Performance Curve - KKMP 77

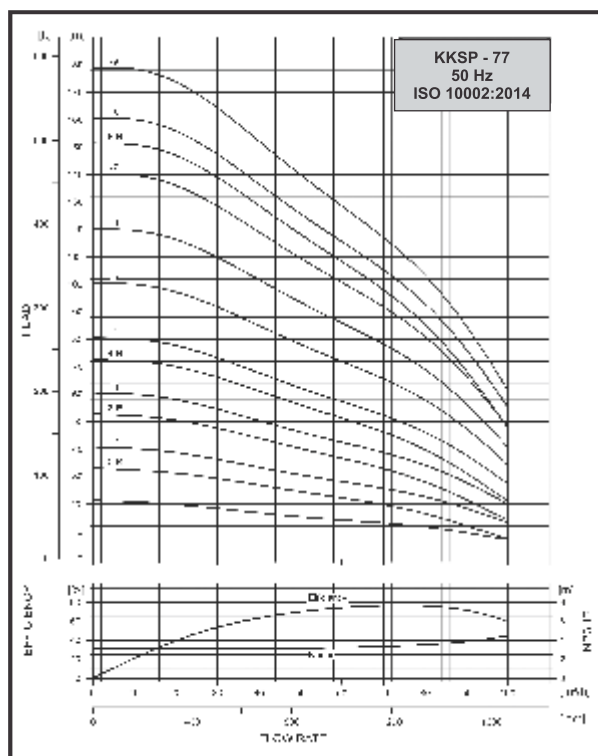
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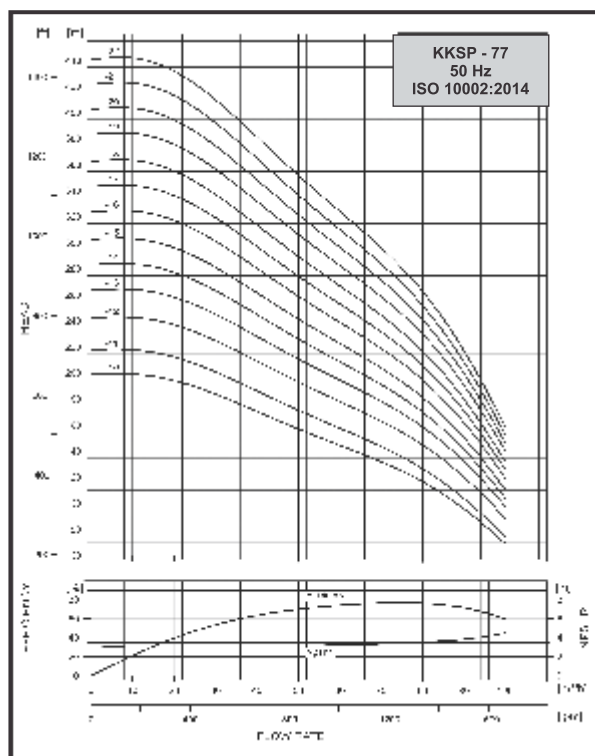


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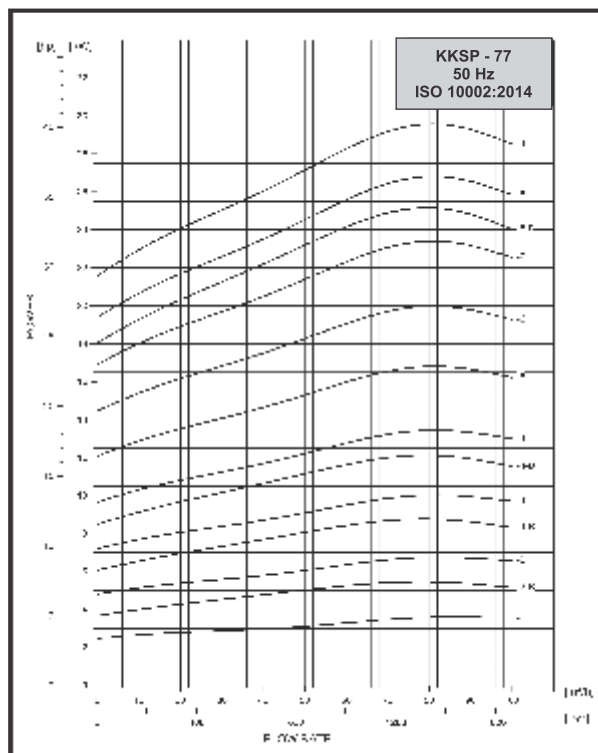
Performance Curve



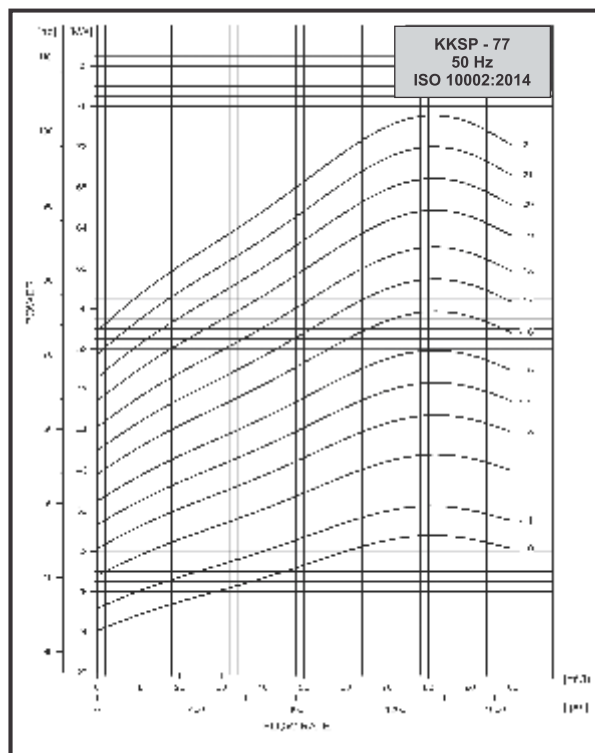
Performance Curve



Power Curve

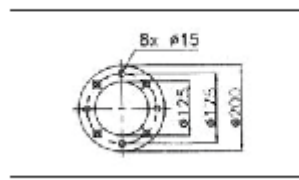
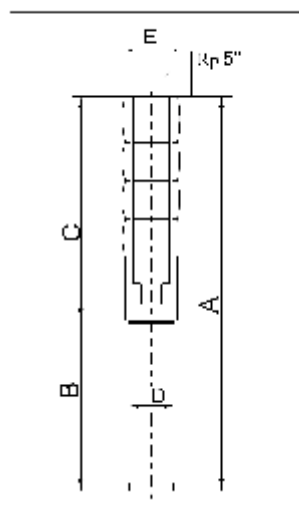


Power Curve





Dimensions, Weights and Performance Table



Model - Stage		Discharges (Q)					Dimensions in (mm)				Pump Net Weight In Kgs
	m ³ / hrs	50	60	70	80	90	Rp 5" Thread Connection				
	ltr / Min.	833	1000	1167	1333	1500					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-77-1	5.5 / 7.5	15	14	13	12	10	618	1161	145	186	21
KKSP-77-2-B	5.5 / 7.5	25	22	20	16	12	746	1289	145	186	24
KKSP-77-2	7.5 / 10	31	28	26	23	18	746	1320	145	186	24
KKSP-77-3-B	9.2 / 12.5	40	37	33	28	22	874	1478	145	186	28
KKSP-77-3	11 / 15	46	42	39	34	28	874	1508	145	186	28
KKSP-77-4-B	13 / 17.5	56	51	46	40	31	1003	1667	145	186	31
KKSP-77-4	15 / 20	62	57	52	46	38	1003	1701	145	186	31
KKSP-77-5	18.5 / 25	78	72	66	58	47	1131	1885	145	186	35
KKSP-77-6	22 / 30	94	86	78	69	56	1259	2071	145	186	38
KKSP-77-7	26 / 35	110	101	92	81	66	1387	2261	145	186	42
KKSP-77-8-B	26 / 35	118	108	98	85	68	1515	2389	145	186	46
KKSP-77-8	30 / 40	126	116	105	93	76	1515	2459	145	186	46
KKSP-77-9	30 / 40	140	129	117	103	85	1643	2587	145	186	49
KKSP-77-8	30 / 40	176	116	105	93	76	1515	2655	188	186	46
KKSP-77-9	30 / 40	140	129	117	103	85	1643	2783	188	186	49
KKSP-77-10	37 / 50	157	145	132	117	96	1771	2911	188	186	53
KKSP-77-11	37 / 50	172	158	144	127	104	1914	3054	188	186	57
KKSP-77-12	45 / 60	193	178	163	145	120	2043	3273	188	186	60
KKSP-77-13	55 / 75	211	195	178	159	132	2172	3512	188	186	64
KKSP-77-14	55 / 75	226	209	191	170	141	2300	3640	188	186	68
KKSP-77-15	55 / 75	242	223	204	181	150	2429	3769	188	186	71
KKSP-77-16	63 / 85	259	239	219	195	162	2557	4047	188	186	75
KKSP-77-17	63 / 85	274	253	232	206	171	2685	4175	188	186	78
KKSP-77-18	63 / 85	290	267	244	217	180	2814	4304	188	186	82
KKSP-77-19	75 / 100	307	283	259	230	191	3236	4796	188	186	85
KKSP-77-20	75 / 100	322	297	271	241	200	3364	4924	188	186	89
KKSP-77-21	75 / 100	-	-	-	-	-	3492	5052	188	186	93
KKSP-77-22	93 / 125	-	-	-	-	-	3620	5360	188	186	96

* Motor type / size may change as per requirement.

** Maximum diameter of pump with twin cable guard.

Performance Curve - KKMP 95

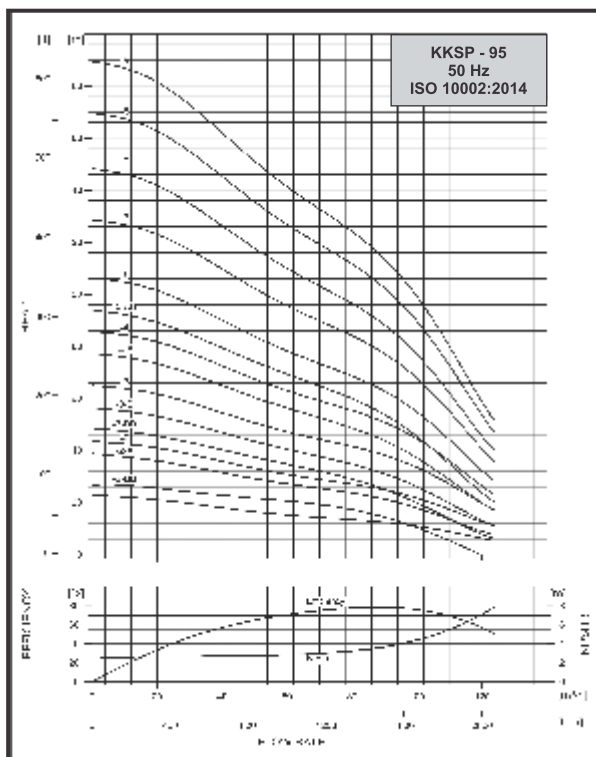
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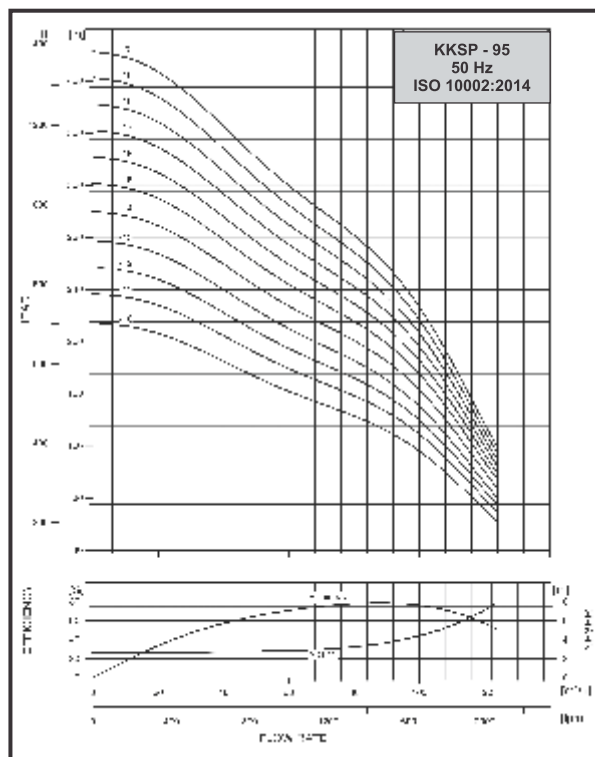


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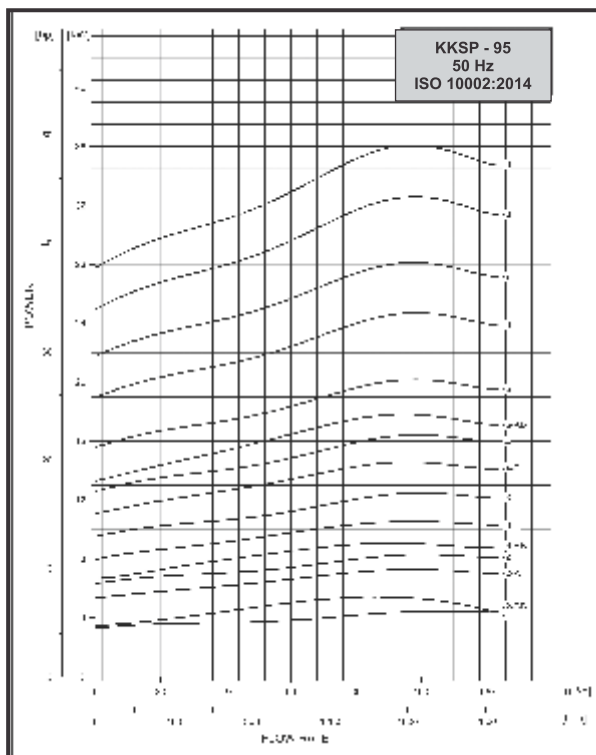
Performance Curve



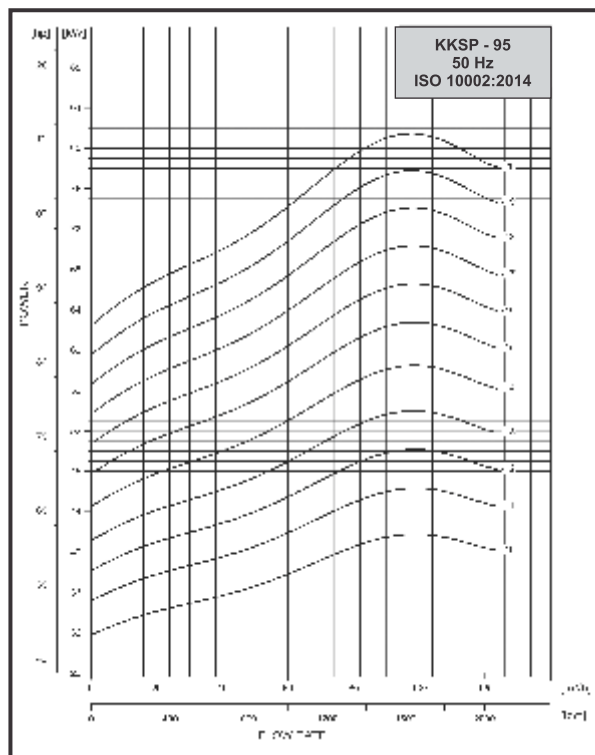
Performance Curve



Power Curve



Power Curve



Technical Data - KKMP 95

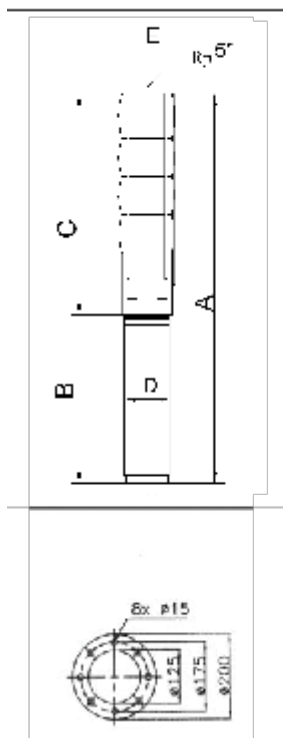
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Dimensions, Weights and Performance Table



Model - Stage	Discharges (Q)						Dimensions in (mm)				Pump Net Weight In Kgs
	m ³ / hrs	80	90	100	110	120	Rp 5" Thread Connection				
	Ltr / Min.	1333	1500	1667	1833	2000					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-95-1	5.5 / 7.5	13	12	11	9	6	618	1161	145	186	21
KKSP-95-2BB	5.5 / 7.5	17	14	10	6	2	746	1289	145	186	24
KKSP-95-2-A	7.5 / 10	24	21	18	14	9	746	1320	145	186	24
KKSP-95-2	9.2 / 12.5	27	25	22	17	13	746	1350	145	186	24
KKSP-95-3BB	9.2 / 12.5	29	25	20	16	8	874	1478	145	186	28
KKSP-95-3-B	11 / 15	35	31	26	20	13	874	1508	145	186	28
KKSP-95-3	13 / 17.5	42	38	33	27	20	874	1538	145	186	28
KKSP-95-4-B	15 / 20	49	44	37	29	20	1003	1701	145	186	31
KKSP-95-4	18.5 / 25	55	51	44	36	26	1003	1757	145	186	31
KKSP-95-5A3	18.5 / 25	60	54	45	35	24	1131	1885	145	186	35
KKSP-95-5	22 / 30	69	63	55	44	32	1131	1943	145	186	35
KKSP-95-6	26 / 35	84	77	68	55	41	1259	2133	145	186	38
KKSP-95-7	30 / 40	96	88	77	62	46	1387	2331	145	186	42
KKSP-95-7	30 / 40	96	88	77	62	46	1387	2327	188	186	42
KKSP-95-8	37 / 50	112	102	90	73	54	1515	2655	188	186	46
KKSP-95-9	45 / 60	124	114	99	80	59	1642	2872	188	186	49
KKSP-95-10	45 / 60	143	132	116	95	71	1785	3015	188	186	53
KKSP-95-11	55 / 75	158	146	129	106	79	1914	3254	188	186	56
KKSP-95-12	55 / 75	172	158	140	115	86	2043	3383	188	186	60
KKSP-95-13	55 / 75	185	170	150	123	92	2172	3512	188	186	63
KKSP-95-14	63 / 85	201	185	163	134	100	2300	3770	188	186	67
KKSP-95-15	75 / 100	215	198	175	144	107	2429	3989	188	186	71
KKSP-95-16	75 / 100	229	211	186	152	114	2557	4117	188	186	74
KKSP-95-17	75 / 100	242	223	196	160	120	2685	4245	188	186	78
KKSP-95-18	93 / 125	255	235	206	169	125	3108	4848	188	186	81
KKSP-95-19	93 / 125	269	247	216	177	131	3236	4976	188	186	85
KKSP-95-20	93 / 125	281	258	226	184	137	3364	5104	188	186	88

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

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Figure 1 consists of two graphs showing the performance characteristics of the KKSP-125 compressor. The top graph plots Pressure Ratio (P_2/P_1) on the Y-axis (ranging from 1.0 to 1.8) against Flow Rate (m^3/min) on the X-axis (ranging from 0 to 100). The bottom graph plots Power (kW) on the Y-axis (ranging from 0 to 20) against Flow Rate (m^3/min) on the X-axis (ranging from 0 to 100). Both graphs show efficiency curves for various pressure ratios (1.1 to 1.8) and a constant speed of 50 Hz. A box in the top right corner of the top graph contains the text: KKSP - 125, 50 Hz, ISO 10002:2014.

Technical Data - KKMP 125

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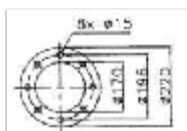
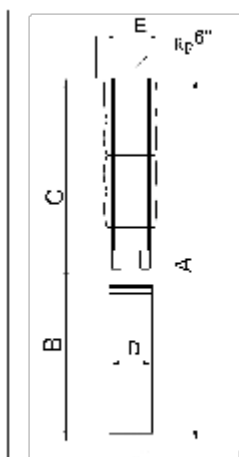
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Dimensions, Weights and Performance Table



Model - Stage		Discharges (Q)					Dimensions in (mm)				Pump Net Weight In Kgs
	m³ / h ^{rs}	110	120	130	140	150	Rp 6" Thread Connection				
	Ltr / Min.	1833	2000	2167	2333	2500					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-125-1-A	7.5 / 10	15	14	12	10	8	651	1225	145	218	27
KKSP-125-1	11 / 15	21	20	19	17	15	651	1286	145	218	27
KKSP-125-2AA	13 / 17.5	29	27	24	20	16	807	1471	145	218	33
KKSP-125-2-A	18.5 / 25	37	34	31	28	23	807	1561	145	218	33
KKSP-125-2	22 / 30	44	42	39	35	32	807	1619	145	218	33
KKSP-125-3AA	22 / 30	50	47	42	36	30	963	1775	145	218	39
KKSP-125-3-A	26 / 35	58	54	50	45	38	963	1837	145	218	39
KKSP-125-3	30 / 40	66	62	58	53	47	963	1907	145	218	39
KKSP-125-4AA	37 / 50	74	69	63	56	48	1119	2259	188	218	45
KKSP-125-4-A	37 / 50	81	76	70	63	55	1119	2259	188	218	45
KKSP-125-4	37 / 50	87	83	77	71	63	1119	2259	188	218	45
KKSP-125-5AA	45 / 60	98	93	85	77	66	1275	2505	188	218	51
KKSP-125-5-A	45 / 60	105	100	93	84	74	1275	2505	188	218	51
KKSP-125-5	55 / 75	114	108	102	93	84	1275	2615	188	218	51
KKSP-125-6AA	55 / 75	121	114	106	95	83	1431	2771	188	218	57
KKSP-125-6-A	55 / 75	128	121	113	103	91	1431	2771	188	218	57
KKSP-125-6	63 / 85	135	130	122	112	100	1431	2901	188	218	57
KKSP-125-7AA	63 / 85	144	136	126	114	100	1587	3057	188	218	63
KKSP-125-7-A	63 / 85	151	143	133	122	107	1587	3057	188	218	63
KKSP-125-7	75 / 100	159	151	142	130	117	1587	3147	188	218	63
KKSP-125-8AA	75 / 100	166	157	146	132	116	1743	3303	188	218	70
KKSP-125-8-A	75 / 100	173	164	153	139	123	1743	3303	188	218	70
KKSP-125-8	75 / 100	180	171	160	147	131	1743	3303	188	218	70
KKSP-125-9AA	93 / 125	187	177	164	149	130	1895	3635	188	218	76
KKSP-125-9-A	93 / 125	194	184	171	156	138	1895	3635	188	218	76
KKSP-125-9	93 / 125	201	191	178	163	146	1895	3635	188	218	76
KKSP-125-10AA	93 / 125	208	196	182	165	144	2055	3795	188	218	82
KKSP-125-10-A	93 / 125	214	203	189	172	152	2055	3795	188	218	82
KKSP-125-10	93 / 125	221	210	196	179	159	2055	3795	188	218	82
KKSP-125-11	110 / 150	-	-	-	-	-	2507	4567	237	227	91
KKSP-125-12	132 / 175	-	-	-	-	-	2714	4584	237	227	97
KKSP-125-13	132 / 175	-	-	-	-	-	2870	4740	237	227	104
KKSP-125-14	147 / 200	-	-	-	-	-	3025	4815	237	227	110
KKSP-125-15	147 / 200	-	-	-	-	-	3181	4971	237	227	116
KKSP-125-16	185 / 250	-	-	-	-	-	3336	5216	237	227	122
KKSP-125-17	185 / 250	-	-	-	-	-	3492	5372	237	227	128

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable glands.

Performance Curve - KKMP 160

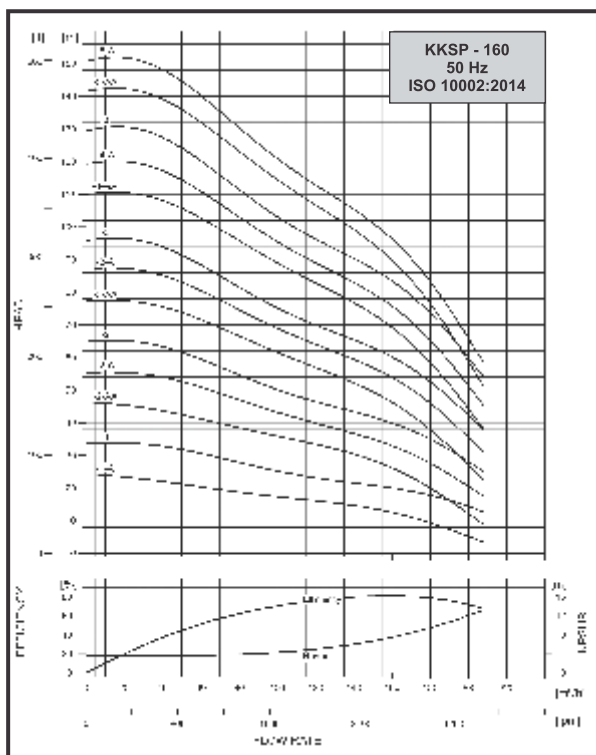
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Performance Curve



Technical Data - KKMP 160

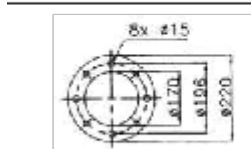
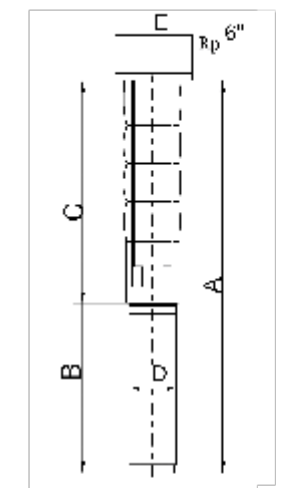
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Dimensions, Weights and Performance Table



Model - Stage		Discharges (Q)					Dimensions in (mm)				Pump Net Weight In Kgs
	m ³ / hrs	150	160	170	180	190	Rp 6" Thread Connection				
	Ltr / Min.	2500	2667	2833	3000	3167					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
KKSP-160-1-A	7.5 / 10	14	13	11	9	7	651	1371	143	218	26
KKSP-160-1	13 / 17.5	21	20	19	18	16	651	1315	143	218	26
KKSP-160-2AA	18.5 / 25	29	26	23	20	16	807	1561	143	218	33
KKSP-160-2-A	22 / 30	35	33	31	28	24	807	1619	143	218	33
KKSP-160-2	26 / 35	42	40	38	35	32	807	1681	143	218	33
KKSP-160-3AA	30 / 40	49	46	42	38	33	963	1907	143	218	39
KKSP-160-3-A	30 / 40	57	54	50	46	41	963	1907	143	218	39
KKSP-160-3	37 / 50	63	60	57	53	48	963	1907	143	218	39
KKSP-160-4AA	45 / 60	73	69	64	58	52	1119	2349	188	218	45
KKSP-160-4-A	45 / 60	80	76	71	65	59	1119	2349	188	218	45
KKSP-160-4	55 / 75	87	83	79	74	67	1119	2459	188	218	45
KKSP-160-5AA	55 / 75	95	90	84	76	68	1275	2615	188	218	51
KKSP-160-5-A	55 / 75	101	96	90	83	73	1275	2615	188	218	51
KKSP-160-5	63 / 85	109	96	98	91	83	1275	2615	188	218	51
KKSP-160-6AA	63 / 85	116	110	103	94	84	1431	2771	188	218	57
KKSP-160-6-A	75 / 100	123	118	111	102	92	1431	2991	188	218	57
KKSP-160-6	75 / 100	130	124	117	109	99	1431	2991	188	218	57
KKSP-160-7AA	75 / 100	137	130	122	112	100	1587	3147	188	218	64
KKSP-160-7-A	93 / 125	144	137	128	118	107	1587	3327	188	218	64
KKSP-160-7	93 / 125	150	143	135	125	113	1587	3327	188	218	64
KKSP-160-8AA	93 / 125	157	149	139	127	114	1743	3483	188	218	70
KKSP-160-8-A	93 / 125	163	155	145	134	121	1743	3483	188	218	70
KKSP-160-8	93 / 125	169	161	152	140	127	1743	3483	188	218	70
KKSP-160-9AA	110 / 150	179	170	159	146	131	1899	3589	237	227	80
KKSP-160-9-A	110 / 150	186	177	166	153	138	1899	3589	237	227	80
KKSP-160-9	110 / 150	192	183	172	160	145	1899	3589	237	227	80
KKSP-160-10AA	110 / 150	-	-	-	-	-	2351	404	237	227	86
KKSP-160-10-A	132 / 175	-	-	-	-	-	2403	4273	237	227	86
KKSP-160-10	132 / 175	-	-	-	-	-	2403	4273	237	227	86
KKSP-160-11	132 / 175	-	-	-	-	-	2559	4429	237	227	93
KKSP-160-12	150 / 200	-	-	-	-	-	2714	4784	286	227	99
KKSP-160-13	185 / 250	-	-	-	-	-	2870	5090	286	227	105
KKSP-160-14	185 / 250	-	-	-	-	-	3025	5245	286	227	111
KKSP-160-15	190 / 250	-	-	-	-	-	3259	5639	286	227	118

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

Table of Head Losses in Ordinary Pipes

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Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head in metres per 100 metres of straight pipes

Quantity of Water			PELM/PEH PN 10											
m ³ /h	litres/min.	litres/sec.	PELM				PEH							
			25	32	40	50	63	75	90	110	125	140	160	180
			20.4	26.2	32.6	40.8	51.4	73.6	73.6	90.0	102.2	114.06	130.8	147.2
0.6	10	0.16	0.49	0.30	0.19	0.12								
			1.5	0.56	0.27	0.065								
0.9	15	0.25	0.76	0.46	0.3	0.19	0.12							
			4.0	1.14	0.6	0.16	0.02							
1.2	20	0.33	1.0	0.61	0.39	0.25	0.16							
			5.4	1.7	0.9	0.28	0.1							
1.5	25	0.42	1.3	0.78	0.5	0.32	0.2	0.14						
			10.0	3.5	1.4	0.45	0.17	0.074						
1.8	30	0.50	1.63	0.93	0.6	0.38	0.24	0.17						
			13.0	4.6	1.9	0.67	0.22	0.092						
2.1	35	0.58	1.77	1.08	0.69	0.44	0.28	0.2						
			16.0	6.0	2.0	0.73	0.27	0.12						
2.4	40	0.67	2.05	1.24	0.80	0.51	0.32	0.23	0.16					
			22.0	7.5	3.3	0.95	0.35	0.15	0.052					
3.0	50	0.83	2.54	1.54	0.99	0.63	0.4	0.28	0.2					
			37.0	11.0	4.8	1.23	0.60	0.22	0.09					
3.6	60	1.00	3.06	1.85	1.2	0.76	0.48	0.34	0.24	0.16				
			43.0	15.0	6.5	1.3	0.69	0.35	0.13	0.050				
4.2	70	1.2	3.43	2.08	1.34	0.86	0.54	0.38	0.26	0.18				
			50.0	18.0	8.0	1.63	0.82	0.38	0.17	0.069				
4.8	80	1.33	2.47	1.59	1.02	0.64	0.45	0.31	0.2					
			26.0	10.9	3.03	1.20	0.63	0.22	0.054					
5.4	90	1.50	2.78	1.8	1.15	0.72	0.51	0.35	0.24	0.18				
			30.0	12.0	3.33	1.30	0.67	0.26	0.092	0.05				
6.0	100	1.67	3.1	2.0	1.28	0.8	0.56	0.39	0.26	0.2				
			39.0	16.0	4.6	1.80	0.75	0.40	0.12	0.07				
7.5	125	2.09	3.86	2.49	1.59	1.00	0.70	0.49	0.33	0.25	0.20			
			50.0	24.0	6.6	2.50	1.13	0.53	0.15	0.10	0.055			
9.0	150	2.50		3.00	1.91	1.20	0.84	0.59	0.39	0.30	0.24			
				38.0	8.9	3.5	1.23	0.65	0.24	0.13	0.075			
10.5	175	2.92		3.5	2.23	1.41	0.99	0.69	0.46	0.36	0.28			
				36.0	11.0	4.5	1.80	0.75	0.33	0.19	0.09			
12	200	3.33		3.99	2.55	1.60	1.12	0.78	0.52	0.41	0.32	0.25		
				50.0	12.0	5.5	2.43	1.1	0.40	0.22	0.12	0.065		
14	250	4.17			3.19	2.01	1.41	0.98	0.66	0.51	0.40	0.31	0.25	
					21.0	6.0	3.23	1.60	0.67	0.34	0.16	0.105	0.06	
18	300	5.00			3.62	2.41	1.69	1.18	0.78	0.61	0.48	0.37	0.29	
					25.0	10.5	4.60	1.95	0.77	0.45	0.26	0.15	0.065	
24	400	6.67				3.21	2.25	1.57	1.05	0.81	0.65	0.50	0.39	
						19.0	6.0	3.60	1.20	0.75	0.44	0.25	0.15	
30	500	8.33				4.01	2.81	1.96	1.1	1.02	0.81	0.62	0.49	
						28.0	1.5	6.0	2.0	1.20	0.65	0.35	0.21	
36	600	10.0				4.82	3.38	2.35	1.57	1.22	0.97	0.74	0.59	
						37.0	5.0	6.6	2.63	1.50	0.82	0.46	0.28	
42	750	11.7				5.64	3.95	2.75	1.84	1.43	1.13	0.87	0.69	
						47.0	24.0	8.0	3.60	1.95	1.13	0.63	0.40	
48	800	13.3					4.89	3.13	2.09	1.62	1.29	0.99	0.78	
							26.0	1.0	4.5	2.60	1.70	0.81	0.46	
54	900	15.0					5.07	3.53	2.36	1.83	1.48	1.12	0.88	
							33.0	1.5	5.5	3.20	1.70	0.95	0.58	
60	1000	16.7					5.64	3.93	2.63	2.04	1.62	1.24	0.96	
							70.0	5.0	6.7	3.90	2.2	1.2	0.75	
75	1250	20.0						4.89	3.27	2.54	2.02	1.55	1.22	
								25.0	9.0	5.0	3.0	1.6	0.95	
90	1500	25.0						6.88	3.93	3.05	2.42	1.86	1.47	
								50.0	12.0	5.0	7.0	2.3	1.40	
105	1750	29.2						6.86	4.59	3.66	2.85	2.17	1.72	
								75.0	17.5	7.7	5.7	3.2	1.9	
120	2000	33.3							5.23	4.06	3.23	2.48	1.96	
									22.0	13.0	7.0	4.0	2.4	
150	2500	41.7							6.55	5.08	4.04	3.10	2.45	
									54.0	19.0	10.5	6.0	3.5	
180	3000	50.0							7.86	6.1	4.85	3.72	2.94	
									75.0	27.0	14.0	7.6	4.6	
240	4500	66.7								8.13	6.47	4.96	3.92	
										42.0	24.0	8.0	7.5	
300	6000	83.3									8.08	6.21	4.89	
											33.0	8.0	11.0	

Table of Head Losses in Ordinary Pipes

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Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head in metres per 100 metres of straight pipes

Quantity of Water			Head Losses in Ordinary Water Pipes												
m ³ /h	Litres/min.	Litres/sec.	Nominal Pipe Diameter in Inches and Internal Diameter in (mm)												
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	
			15.75	21.25	27.00	35.75	41.25	52.50	68.00	80.25	92.50	105.0	130.0	155.5	
0.6	10	0.16	0.855	0.470	0.292										
0.9	15	0.25	1.282	0.705	0.438	0.249									
1.2	20	0.33	1.710	0.940	0.584	0.331	0.249								
1.5	25	0.42	2.138	1.174	0.730	0.415	0.312								
1.8	30	0.50	2.565	1.409	0.874	0.498	0.374	0.231							
2.1	35	0.58	2.993	1.644	1.022	0.581	0.436	0.269							
2.4	40	0.67		1.879	1.158	0.664	0.499	0.308							
3.0	50	0.83		2.349	1.460	0.830	0.623	0.385	0.229						
3.6	60	1.00		2.819	1.761	0.994	0.748	0.462	0.275						
4.2	70	1.12			2.043	1.162	0.873	0.539	0.321	0.231					
4.8	80	1.33			2.335	1.328	0.997	0.616	0.367	0.263					
5.4	90	1.50			2.627	1.494	1.122	0.693	0.413	0.269					
6.0	100	1.67			2.919	1.660	1.247	0.770	0.459	0.329	0.248				
7.5	125	2.08			3.649	2.075	1.558	0.962	0.574	0.412	0.310	0.241			
9.0	150	2.50				2.490	1.870	1.154	0.668	0.494	0.372	0.289			
10.5	175	2.92				2.904	2.182	1.347	0.803	0.576	0.434	0.337			
12	200	3.33				3.319	2.493	1.539	0.910	0.659	0.496	0.385	0.261		
15	250	4.17				4.149	3.117	1.924	1.147	0.823	0.620	0.481	0.314		
18	300	5.00					3.740	2.309	1.377	0.988	0.744	0.577	0.377	0.263	
24	400	6.67					4.987	3.078	1.834	1.317	0.992	0.770	0.502	0.351	
30	500	8.33						3.848	2.295	1.647	1.240	0.962	0.628	0.439	
36	600	10.0						4.618	2.753	1.976	1.488	1.165	0.753	0.526	
42	700	11.7						5.384	3.212	2.306	1.736	1.347	0.879	0.614	
48	800	13.3						6.150	3.671	2.635	1.984	1.540	1.005	0.703	
54	900	15.0						6.916	4.130	2.964	2.232	1.732	1.130	0.790	
60	1000	16.7						7.682	4.589	3.294	2.480	1.925	1.256	0.877	
75	1250	20.8						9.753	5.845	4.117	3.100	2.406	1.570	1.097	
90	1500	25.0						11.824	7.101	4.941	3.720	2.887	1.883	1.316	
105	1750	29.2						13.895	8.357	5.767	4.340	3.368	2.163	1.535	
120	2000	33.3						15.966	9.613	6.592	4.959	3.850	2.417	1.754	
150	2500	41.7						19.957	12.164	8.312	6.171	4.812	2.911	2.193	
180	3000	50.0						23.948	14.715	9.923	7.392	5.665	3.404	2.682	
240	4000	66.7						31.939	19.460	13.164	9.843	7.516	4.658	3.509	
300	5000	83.3						39.930	24.205	16.405	12.294	9.369	5.652	4.386	
80°C bends slide valves	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	
4-pieces, non-return valves	4.0	4.0	4.3	5.0	5.7	6.4	7.1	7.8	8.5	9.2	10.0	10.7	11.4	12.1	

This table is calculated in accordance with D. Lang's new formula $\lambda = 0.02$ and for a water temperature of 10°C

The head loss in bends, slide valves, 4-pieces and non-return valves is equivalent to the metres of straight pipe stated in the last two lines of the table. To find the head loss in foot valves multiply the loss in 4-pieces by two.





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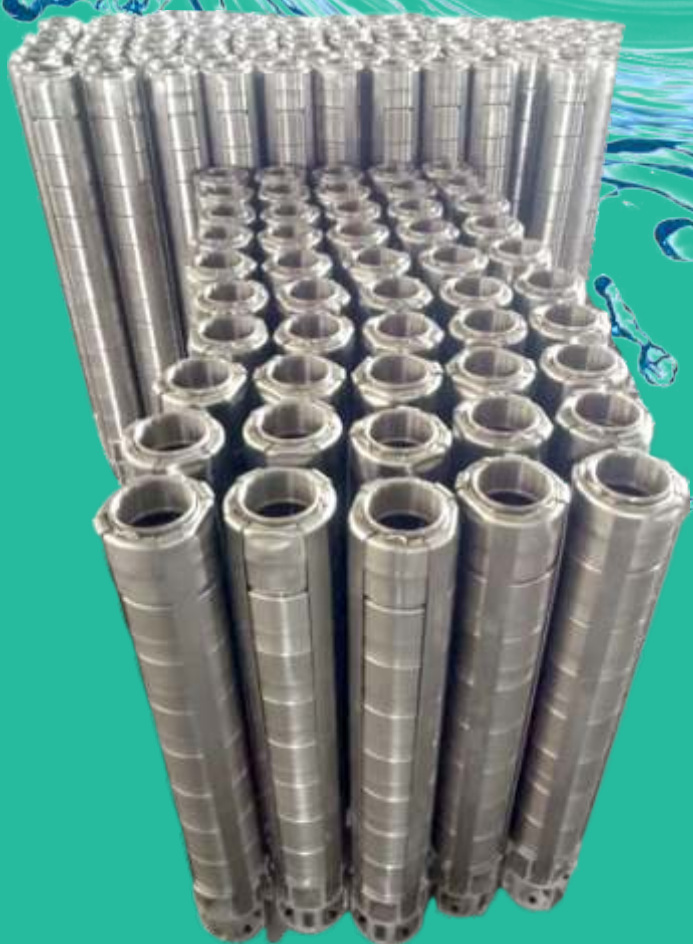
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