

STAINLESS STEEL SUBMERSIBLE PUMPS

50 HZ Catalogue





FOR OVER 85 YEARS, WE HAVE TAKEN WATER TO FARMS, HOMES AND FACTORIES ACROSS INDIA AND THE WORLD.

AN 85-YEAR LEGACY

What started with the production of a one-of-its-kind hand blower in 1935 by Shri Laljibhai Gajjar has today grown into one of India's most respectable pumps brand with an international presence with a manufacturing prowess and distribution networks across the world. As the creator of India's first oil-based submersible pumps in 1991 to introducing Stainless Steel Pumps in 2009 to integrated Solar Pumps in this decade, we continue to deliver well-engineered pumps that bring water where it is needed.

Strategic partnership with KOEL since 2017, one of the most admired Indian MNC.

OUR VISION

To be the preferred water solutions Company for the domestic and agricultural sector across the world by virtue of its vision, techno-pioneering spirit, reliable technology and a growth-focused, customer-centric approach.

OUR MISSION

To work relentlessly towards the Company's vision. To reach out to customers across sectors and geographic domains. To build prosperous partnerships across the world. To set new standards in pumping solutions and to respond efficiently to the world's water and energy challenges.

OUR VALUES

La Gajjar Machineries is driven by the spirit of innovation that makes a difference. We genuinely believe that we are more than a manufacturing company. We are a brand that is adding value to water, the lifeline of the world. This drives us to create reliable, innovative and sustainable solutions for the world.

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SUBMERSIBLE PUMPS

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STAINLESS STEEL SUBMERSIBLE PUMPS

50Hz

PRODUCT ADVANTAGES AND SPECIFICATION

The specific feature of SS Submersible Pump is its high ratio of working pressure to delivery. Due to efficient design, these pumps have reduced stages resulting in longer pump life and trouble free operations.

SPECIFICATIONS & ADVANTAGES:

1. Suction, Stage Casing and Discharge Outlets are made of Stainless Steel.
2. Impellers are made of Stainless Steel.
3. Pump shaft is made of SS 431.
4. Bearing Bush for shaft is made of anti friction Rubber to provide wear resistance against sand.
5. Non Return Valve is made of Stainless Steel.
6. Cable Guard and Strainer are made of Stainless Steel.
7. Pump and Motor couplings are according to NEMA Standard.
8. Minimum Water on aspiration is one meter.
9. Maximum level of sand content: 50 gm/m³
10. Application : These pumps are for domestic, agriculture & industrial usage.
11. Operating Range -

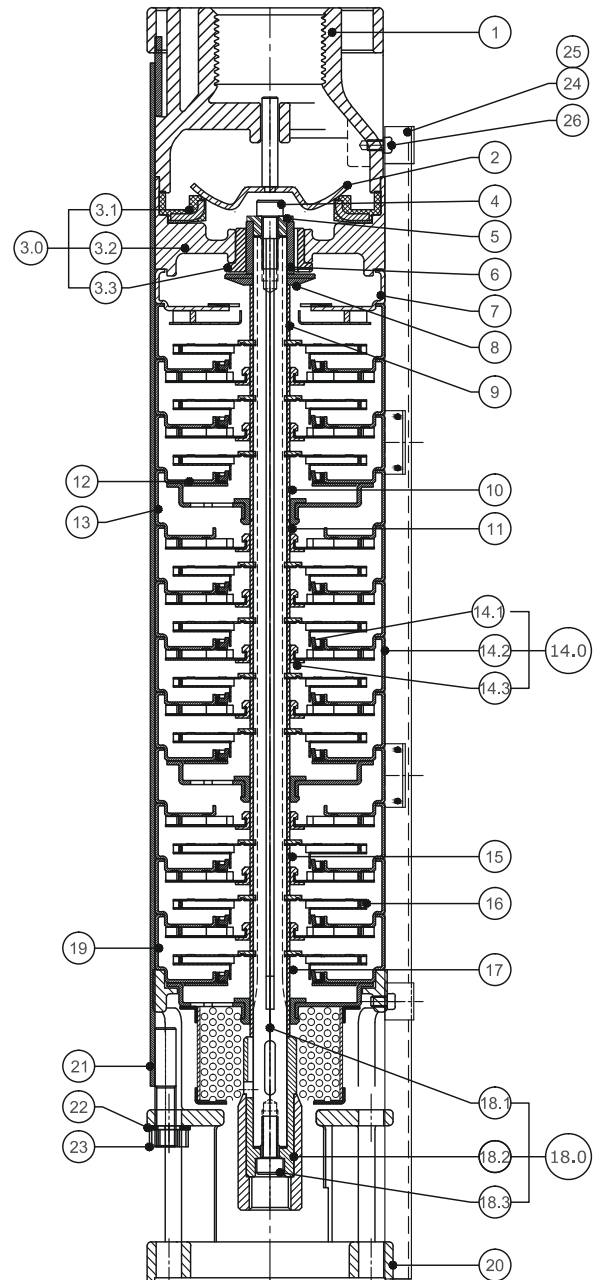
4" - Head range	: 9 mtr to 510 mtr
Flow rate	: 7 lpm to 185 lpm
Immersion	: 1 mtr minimum
6" - Head range	: 4 mtr to 489 mtr
Flow rate	: 70 lpm to 1300 lpm
Immersion	: 1 mtr minimum
8" - Head range	: 7 mtr to 395 mtr
Flow rate	: 335 lpm to 2000 lpm
Immersion	: 1 mtr minimum
10" - Head range	: 3 mtr to 284 mtr
Flow rate	: 1333 lpm to 3467 lpm
Immersion	: 1 mtr minimum

*Performance tolerance can be +/- 7%

4WP 3 SERIES PUMP DESIGN

Material Specification

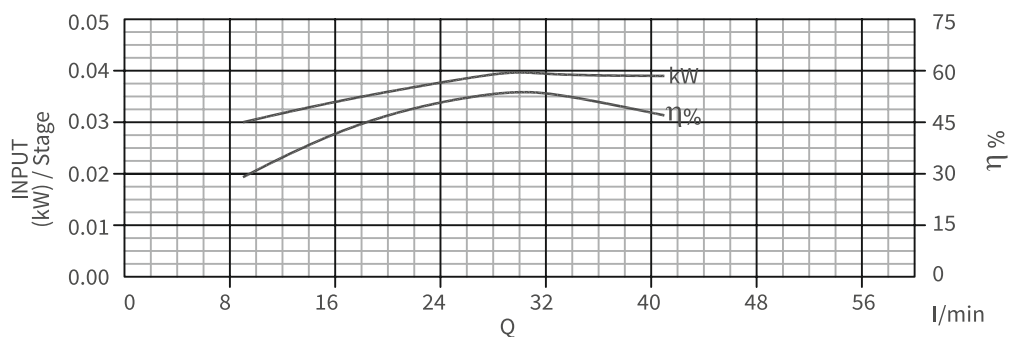
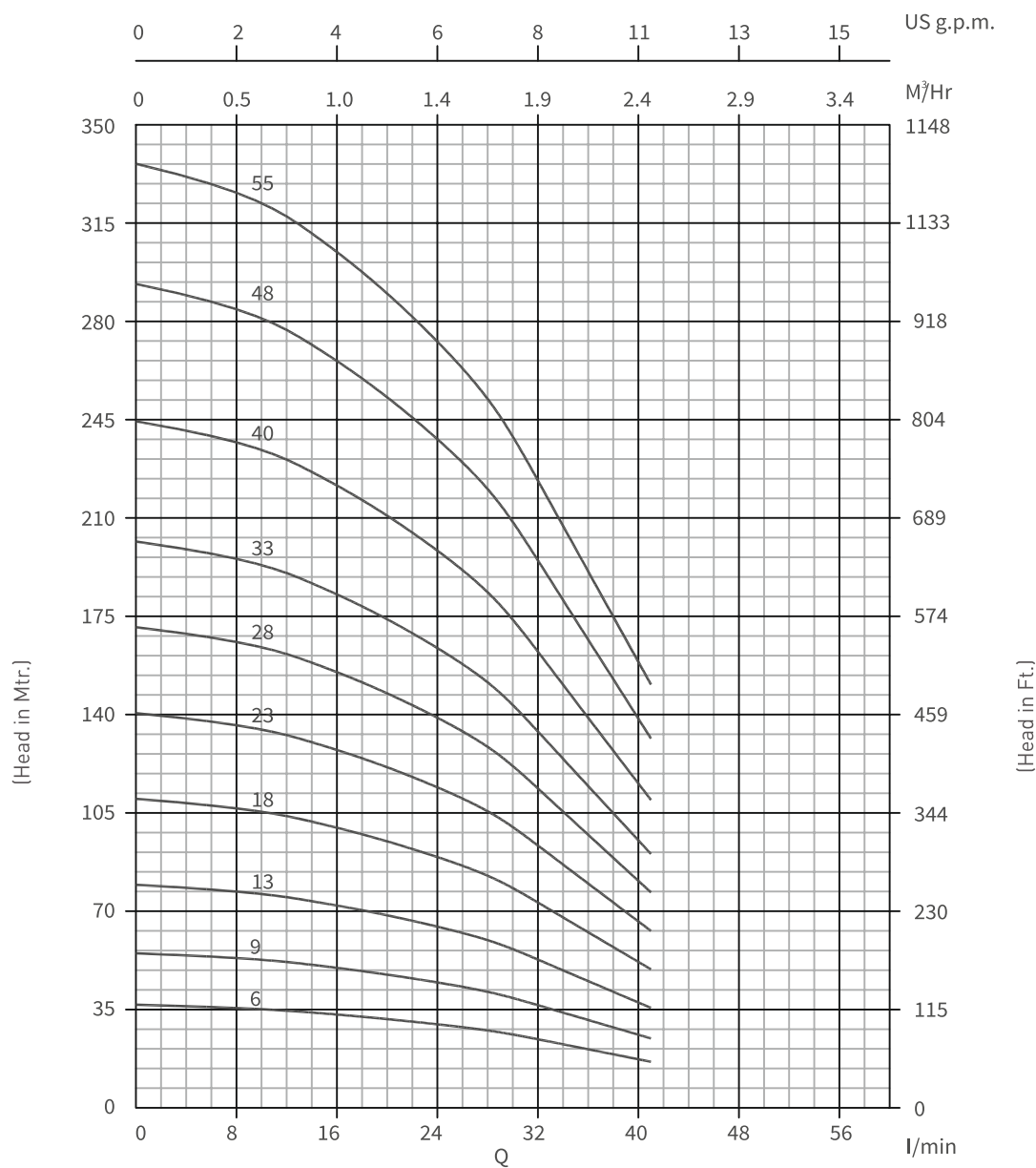
No.	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE CONE	S.S. 304
3.0	TOP BEARING + VALVE SEAT + GM BUSH	SUB ASSLY
3.1	VALVE SEAT	N.B.R. + S.S. 304
3.2	TOP BEARING HOUSING	STEEL CAST 304
3.3	TOP BEARING BUSH	GUN METAL
4	ALLEN BOLT M6X20	S.S. 304
5	TOP BUSH T-TYPE	S.S. 304
6	TOP DIFFUSER SLEEVE	S.S. 304
7	TOP DIFFUSER	S.S. 304
8	THRUST WASHER	S.S. 420
9	TOP SLEEVE	S.S. 304
10	MIDDLE BEARING SLEEVE_L-24	S.S. 304
11	MIDDLE BEARING SLEEVE_L-16	S.S. 304
12	MIDDLE BEARING ASSLY WITH BUSH	SUB ASSLY
13	DIFFUSER WITH BUSH	SUB ASSLY
14.0	DIFFUSER WITH BUSH & NECKRING ASSLY	SUB ASSLY
14.1	NECKRING	N.B.R. + S.S. 304
14.2	BEARING BUSH	N.B.R.
15	IMPELLER STAGE SLEEVE_L-19	S.S. 304
16	IMPELLER	S.S. 304
17	IMPELLER 1st STAGE SLEEVE_L-30.5	S.S. 304
18.0	SHAFTING WITH COUPLING	SUB ASSLY
18.1	PUMP SHAFT	S.S. 1.4362
18.2	COUPLING	S.S. 304
18.3	ALLEN BOLT M6 x 20	S.S. 304
19	1st DIFFUSER_21 MM	S.S. 304
20	SUCTION	STEEL CAST 304
21	CLAMPING STRIP	S.S. 304
22	WASHER	S.S. 304
23	HEX NUT M8	S.S. 316
24	CABLE GUARD	S.S. 304
25	CLAMP OF CABLE GUARD	S.S. 304
26	SCREW_M4	S.S. 304



NOTE :
PUMPS UPTO 33 STAGE DISCHARGE CHAMBER COMES WITH S.S. FABRICATED AND FROM 34 STAGE & ONWARDS WITH STEEL CAST.

4WP 3, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



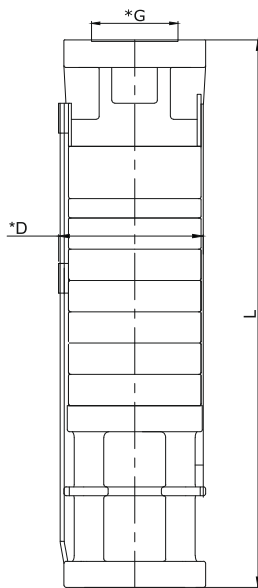
4WP 3, 50Hz ISO 9906 Annexure A

PERFORMANCE CHART

Model Name		Stage	Rating		l/min m ³ /h	Discharge							
Single Phase	Three Phase		kW	HP		0	9	14	20	27	30	33	41
						0	0.54	0.84	1.20	1.62	1.80	1.98	2.46

4WP 3-06	4WP 3-06	6	0.37	0.50	HEAD IN Mtrs.	37	36	34	32	28	26	23	16
4WP 3-09	4WP 3-09	8	0.37	0.50		55	53	51	48	42	39	35	25
4WP 3-13	4WP 3-13	13	0.55	0.75		79	77	74	69	61	57	51	36
4WP 3-18	4WP 3-18	18	0.75	1.00		110	107	102	95	85	78	70	49
4WP 3-23	4WP 3-23	23	1.10	1.50		141	137	130	122	109	100	90	63
4WP 3-28	4WP 3-28	28	1.50	2.00		171	166	159	148	132	122	109	77
4WP 3-33	4WP 3-33	33	1.50	2.00		202	196	187	175	156	144	129	90
4WP 3-40	4WP 3-40	40	2.20	3.00		244	238	227	212	189	174	156	110
4WP 3-48	4WP 3-48	48	2.20	3.00		293	285	272	254	227	209	188	132
	4WP 3-55	55	3.00	4.00		336	327	312	291	260	240	215	151

Dimensions & Weights



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
4WP 3-06	98	282	3.2	3.5
4WP 3-09	98	345	4.2	4.7
4WP 3-13	98	429	5.4	6.1
4WP 3-18	98	534	7.2	8.1
4WP 3-23	98	660	8.9	10.1
4WP 3-28	98	765	10.6	12.0
4WP 3-33	98	870	12.2	13.9
4WP 3-40	98	1094	13.0	14.8
4WP 3-48	98	1283	14.6	16.5
4WP 3-55	98	1430	16.2	18.4

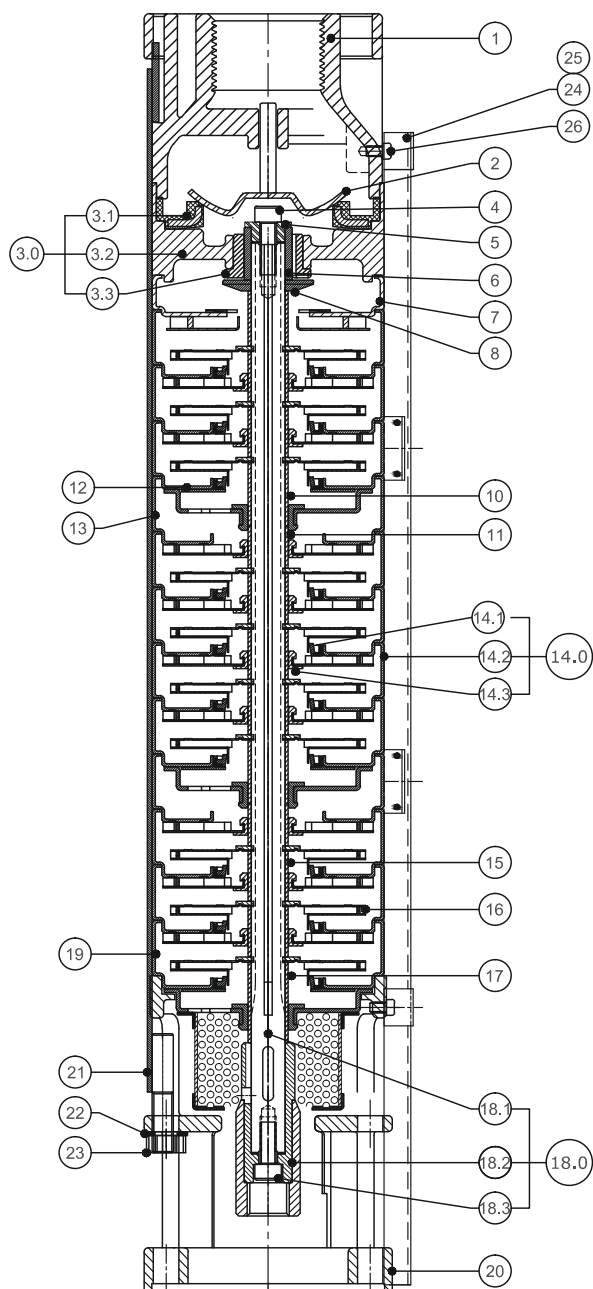
* G : Available Outlet Size 1.25" BSP

* D : With Cable Guard

4WP 4 SERIES PUMP DESIGN

Material Specification

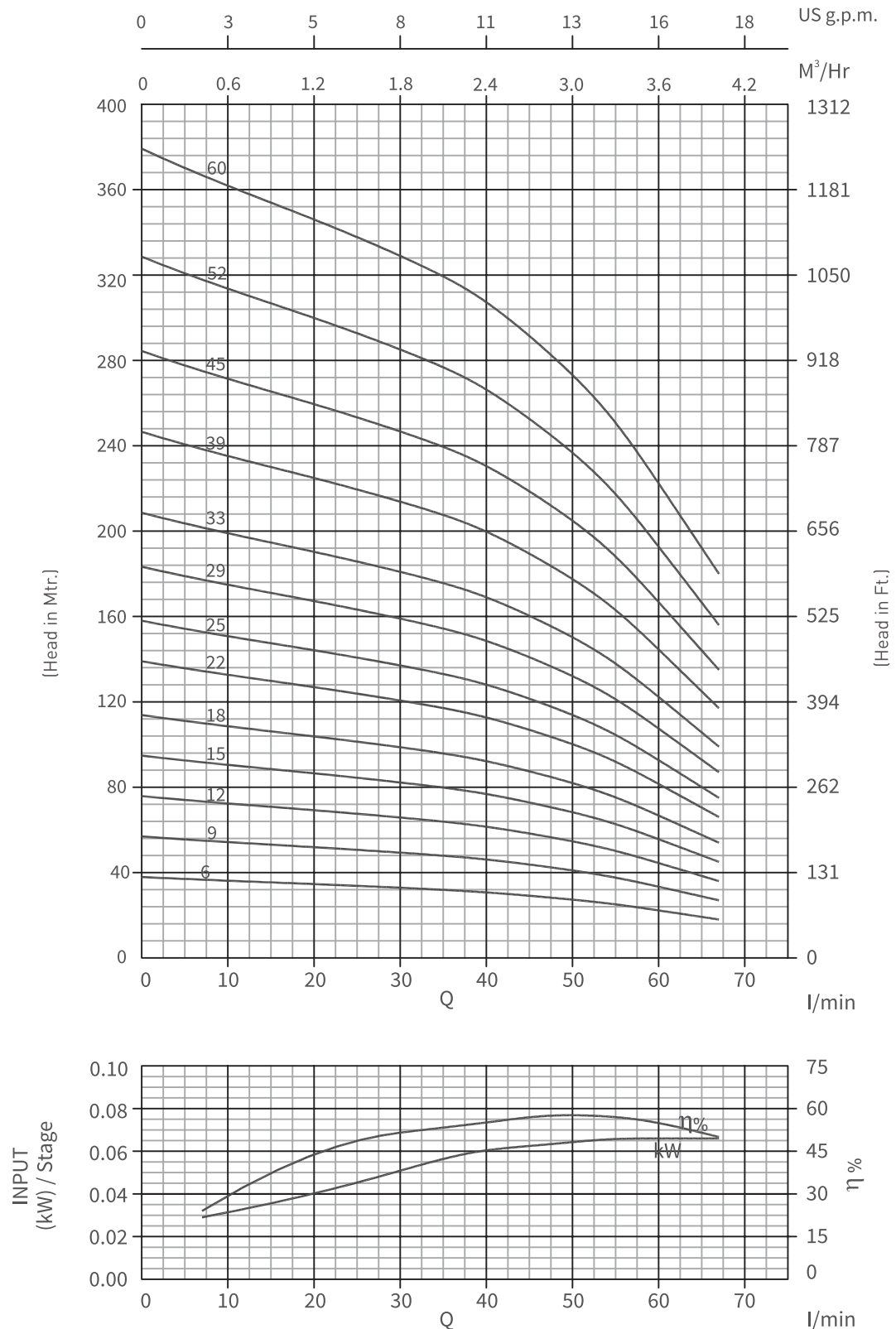
No.	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE CONE	S.S. 304
3.0	TOP BEARING + VALVE SEAT + GM BUSH	SUB ASSLY
3.1	VALVE SEAT	N.B.R. + S.S. 304
3.2	TOP BEARING HOUSING	STEEL CAST 304
3.3	TOP BEARING BUSH	GUN METAL
4	ALLEN BOLT M6X20	S.S. 304
5	TOP BUSH T-TYPE	S.S. 304
6	TOP DIFFUSER SLEEVE	S.S. 304
7	TOP DIFFUSER	S.S. 304
8	THRUST WASHER	S.S. 420
9	TOP SLEEVE	S.S. 304
10	MIDDLE BEARING SLEEVE_L-24	S.S. 304
11	MIDDLE BEARING SLEEVE_L-16	S.S. 304
12	MIDDLE BEARING ASSLY WITH BUSH	SUB ASSLY
13	DIFFUSER WITH BUSH	SUB ASSLY
14.0	DIFFUSER WITH BUSH & NECKRING ASSLY	SUB ASSLY
14.1	NECKRING	N.B.R. + S.S. 304
14.2	BEARING BUSH	N.B.R.
15	IMPELLER STAGE SLEEVE_L-19	S.S. 304
16	IMPELLER	S.S. 304
17	IMPELLER 1st STAGE SLEEVE_L-30.5	S.S. 304
18.0	SHAFTING WITH COUPLING	SUB ASSLY
18.1	PUMP SHAFT	S.S. 1.4362
18.2	COUPLING	S.S. 304
18.3	ALLEN BOLT M6 x 20	S.S. 304
19	1st DIFFUSER_21 MM	S.S. 304
20	SUCTION	STEEL CAST 304
21	CLAMPING STRIP	S.S. 304
22	WASHER	S.S. 304
23	HEX NUT M8	S.S. 316
24	CABLE GUARD	S.S. 304
25	CLAMP OF CABLE GUARD	S.S. 304
26	SCREW_M4	S.S. 304



NOTE :
PUMPS UP TO 33 STAGE DISCHARGE CHAMBER WITH S.S.
FABRICATED AND FROM 34 STAGE & ONWARDS WITH STEEL CAST.

4WP 4 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES

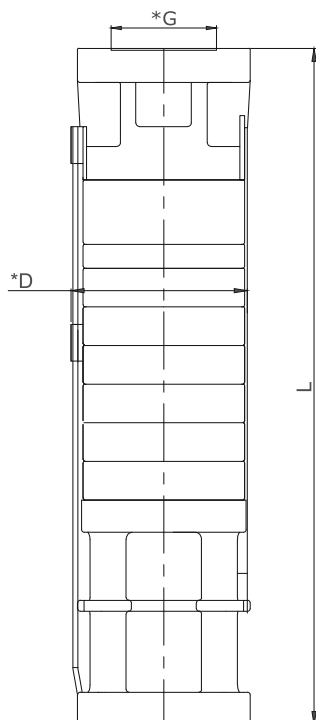


PERFORMANCE CHART

Model Name		Stage	Rating		l/min m ³ /h	Discharge									
Single Phase	Three Phase		kW	HP		0	7	20	34	40	47	54	60	67	
						0	0.42	1.20	2.04	2.40	2.82	3.24	3.60	4.02	

4WP 4-06	4WP 4-06	06	0.37	0.50	HEAD IN Mtrs.	38	37	35	32	31	28	26	22	18	
4WP 4-09	4WP 4-09	09	0.55	0.75		57	55	52	48	46	43	39	33	17	
4WP 4-12	4WP 4-12	12	0.75	1.00		76	73	69	64	62	57	52	45	36	
4WP 4-15	4WP 4-15	15	1.10	1.50		95	92	87	81	77	71	64	56	45	
4WP 4-18	4WP 4-18	18	1.10	1.50		114	110	104	97	93	86	77	67	54	
4WP 4-22	4WP 4-22	22	1.50	2.00		139	134	127	118	113	104	95	82	66	
4WP 4-25	4WP 4-25	25	1.50	2.00		158	152	144	134	128	119	108	93	75	
4WP 4-29	4WP 4-29	29	2.20	3.00		183	177	168	156	149	138	125	108	87	
4WP 4-33	4WP 4-33	33	2.20	3.00		209	201	191	177	170	157	142	122	99	
	4WP 4-39	39	3.00	4.00		246	238	225	209	200	185	168	145	117	
	4WP 4-45	45	3.00	4.00		284	274	260	242	231	214	194	167	135	
	4WP 4-52	52	4.00	5.50		329	317	301	279	267	247	224	193	156	
	4WP 4-60	60	4.00	5.50		379	366	347	322	308	285	258	223	180	

Dimensions & Weights



Model Name	Specification			
	D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
4WP 4-06	98	282	3.4	3.7
4WP 4-09	98	345	4.4	4.9
4WP 4-12	98	408	5.4	6.0
4WP 4-15	98	471	6.4	7.2
4WP 4-18	98	534	7.4	8.3
4WP 4-22	98	639	8.7	9.8
4WP 4-25	98	702	9.7	11.0
4WP 4-29	98	786	10.9	12.4
4WP 4-33	98	870	12.2	13.9
4WP 4-39	98	1073	12.7	14.5
4WP 4-45	98	1220	14.0	16.0
4WP 4-52	98	1367	15.5	17.8
4WP 4-60	98	1535	17.3	20.0

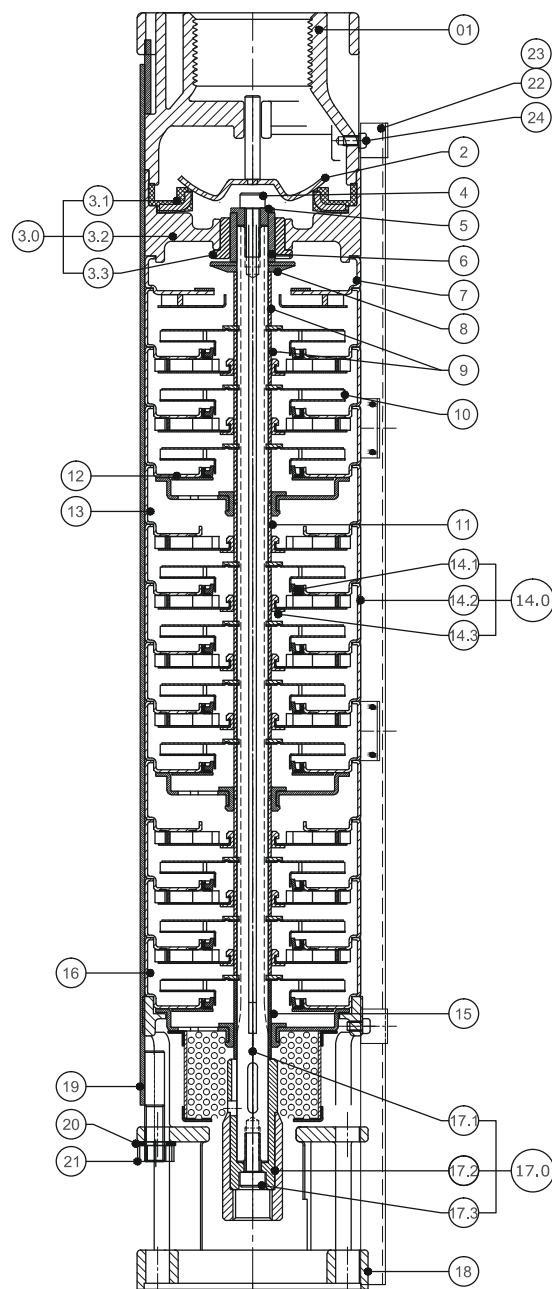
* G : Available Outlet Size 1.25" BSP

* D : With Cable Guard

4WP 6 SERIES PUMP DESIGN

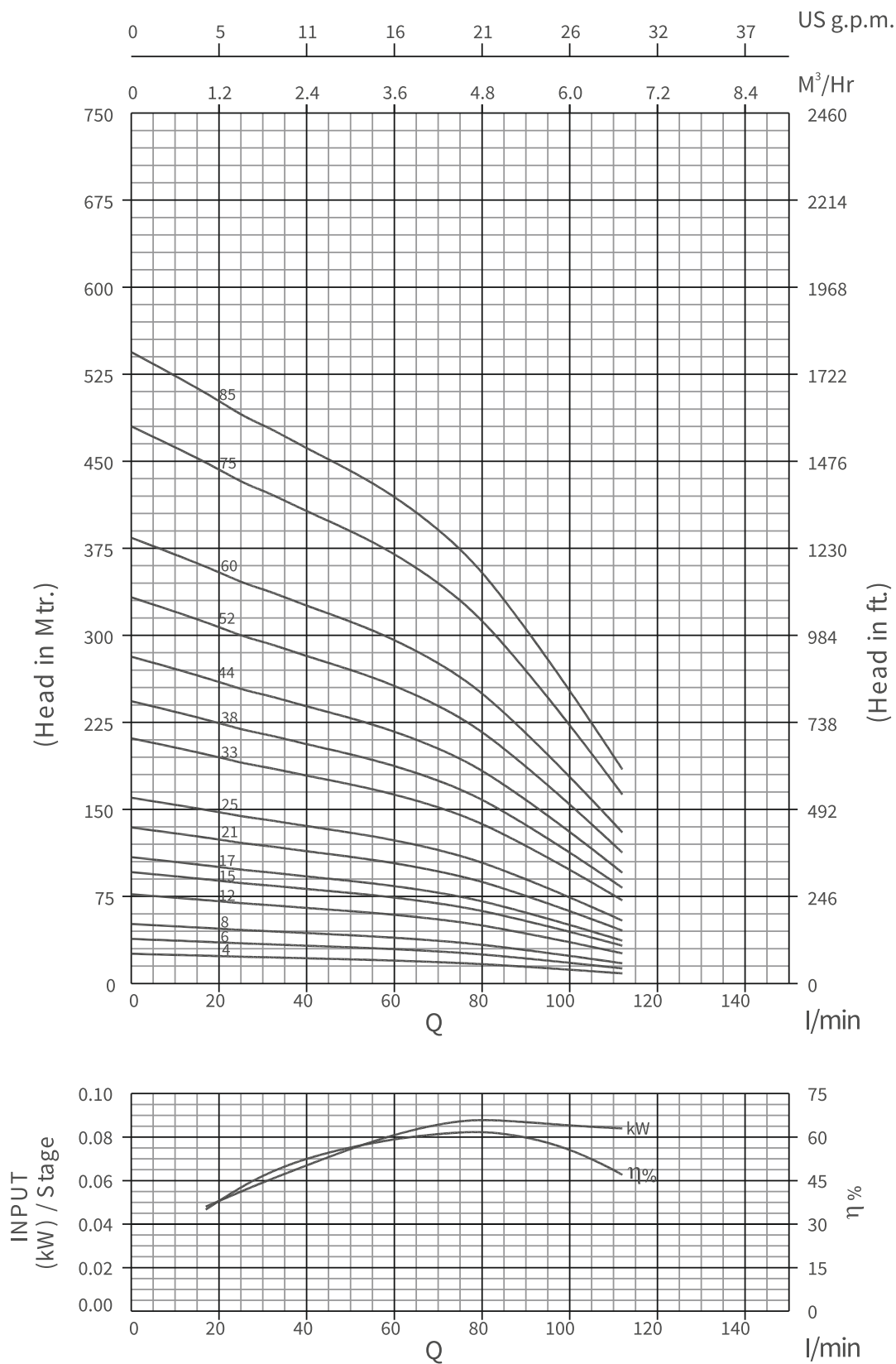
Material Specification

No.	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE CONE	S.S. 304
3.0	TOP BEARING + VALVE SEAT + GM BUSH	SUB ASSLY
3.1	VALVE SEAT	N.B.R. + S.S. 304
3.2	TOP BEARING HOUSING	STEEL CAST 304
3.3	TOP BEARING BUSH	GUN METAL
4	ALLEN BOLT M6X20	S.S. 304
5	TOP BUSH T-TYPE	S.S. 304
6	TOP DIFFUSER SLEEVE	S.S. 304
7	TOP DIFFUSER	S.S. 304
8	THRUST WASHER	S.S. 420
9	TOP & IMPELLER STAGE SLEEVE_L-22	S.S. 304
10	IMPELLER	S.S. 304
11	MIDDLE BEARING SLEEVE_L-24	S.S. 304
12	MIDDLE BEARING ASSLY WITH BUSH	SUB ASSLY
13	DIFFUSER WITH BUSH	SUB ASSLY
14.0	DIFFUSER WITH BUSH & NECKRING ASSLY	SUB ASSLY
14.1	NECKRING	N.B.R. + S.S. 304
14.2	DIFFUSER	S.S. 304
14.3	BEARING BUSH	N.B.R.
15	IMPELLER 1st STAGE SLEEVE_L-32	S.S. 304
16	1st DIFFUSER_24 MM	S.S. 304
17.0	SHAFTING WITH COUPLING	SUB-ASSLY
17.1	PUMP SHAFT	S.S. 1.4362
17.2	COUPLING	S.S. 304
17.3	ALLEN BOLT M6 x 20	S.S. 304
18	SUCTION	STEEL CAST 304
19	CLAMPING STRIP	S.S. 304
20	WASHER	S.S. 304
21	HEX NUT M8	S.S. 316
22	CABLE GUARD	S.S. 304
23	CLAMP OF CABLE GUARD	S.S. 304
24	SCREW_M4	S.S. 304



NOTE :
PUMPS UP TO 33 STAGE DISCHARGE
CHAMBER COMES WITH S.S.
FABROCATED AND FORM 34 STAGE &
ONWARDS WITH STEEL CAST.

PERFORMANCE CURVES



4WP 6, 50Hz ISO 9906 Annexure A

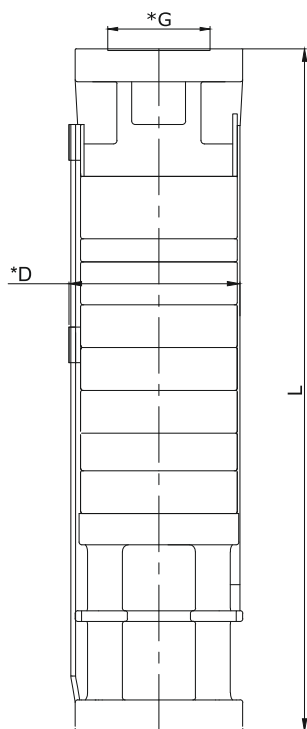
PERFORMANCE CHART



Model Name		Stage	Rating		l/min m ³ /h	Discharge										
Single Phase	Three Phase		kW	HP		0	17	25	31	40	57	74	84	101	112	
						0	1.02	1.50	1.86	2.40	3.42	4.44	5.04	6.06	6.72	

Model Name	Model Name	Stage	kW	HP	HEAD IN Mtrs.	26	24	23	22.5	22	20	18	16	12	9
4WP 6-04	4WP 6-04	4	0.37	0.50		38	36	34.5	34	33	30	27	24	18	13
4WP 6-06	4WP 6-06	6	0.55	0.75		51	48	46	45	43	40	36	32	23	17
4WP 6-08	4WP 6-08	8	0.75	1.00		77	72	69	68	65	61	54	48	35	26
4WP 6-12	4WP 6-12	12	1.10	1.50		96	90	86	85	81	76	67	60	44	33
4WP 6-15	4WP 6-15	15	1.50	2.00		109	102	98	96	92	86	76	67	50	37
4WP 6-17	4WP 6-17	17	1.50	2.00		134	126	121	119	114	106	94	83	61	46
4WP 6-21	4WP 6-21	21	2.20	3.00		160	150	144	141	136	126	112	99	73	54
4WP 6-25	4WP 6-25	25	2.20	3.00		211	198	190	186	179	167	148	131	96	72
	4WP 6-33	33	3.00	4.00		243	228	218	215	206	192	170	151	111	82
	4WP 6-38	38	4.00	5.50		282	264	253	249	238	222	197	175	128	95
	4WP 6-44	44	4.00	5.50		333	312	299	294	282	263	233	206	152	113
	4WP 6-52	52	5.50	7.50		384	360	345	339	325	303	269	238	175	130
	4WP 6-60	60	5.50	7.50		480	450	431	424	406	379	336	298	219	163
	4WP 6-75	75	7.50	10.00		544	510	489	480	461	429	381	337	248	184
	4WP 6-85	85	7.50	10.00											

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
4WP 6-04	98	252	3.5	3.7
4WP 6-06	98	300	3.9	4.2
4WP 6-08	98	348	4.2	4.6
4WP 6-12	98	444	6.2	6.8
4WP 6-15	98	516	6.9	7.7
4WP 6-17	98	564	7.3	8.1
4WP 6-21	98	684	8.8	9.9
4WP 6-25	98	780	10.2	11.5
4WP 6-33	98	972	13.1	14.8
4WP 6-38	98	1169	13.9	15.8
4WP 6-44	98	1337	15.0	17.2
4WP 6-52	98	1529	18.0	20.6
4WP 6-60	98	1721	20.0	23.0
4WP 6-52	138	1546	20.2	22.2
4WP 6-60	138	1738	22.7	25.0
4WP 6-75	138	2122	27.7	30.5
4WP 6-85	138	2386	31.0	36.5

* G : Available Outlet Size 1.25" BSP

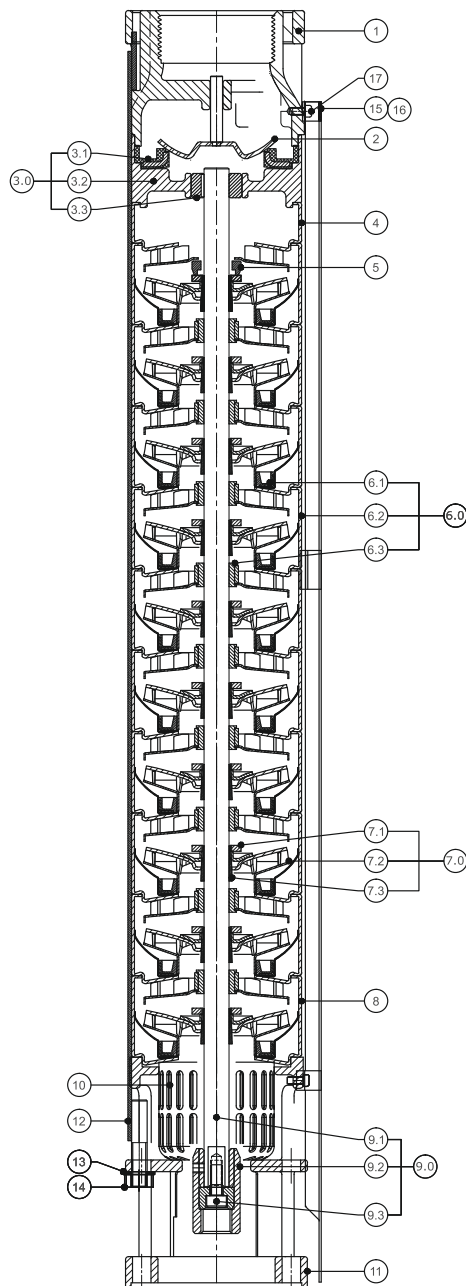
* D : With Cable Guard

4WP 6 - 52, 4WP 6- 60, 4WP 6 -75 & 4WP 6 - 85 Pump
Available in 6" joining.

4WP 9 SERIES PUMP DESIGN

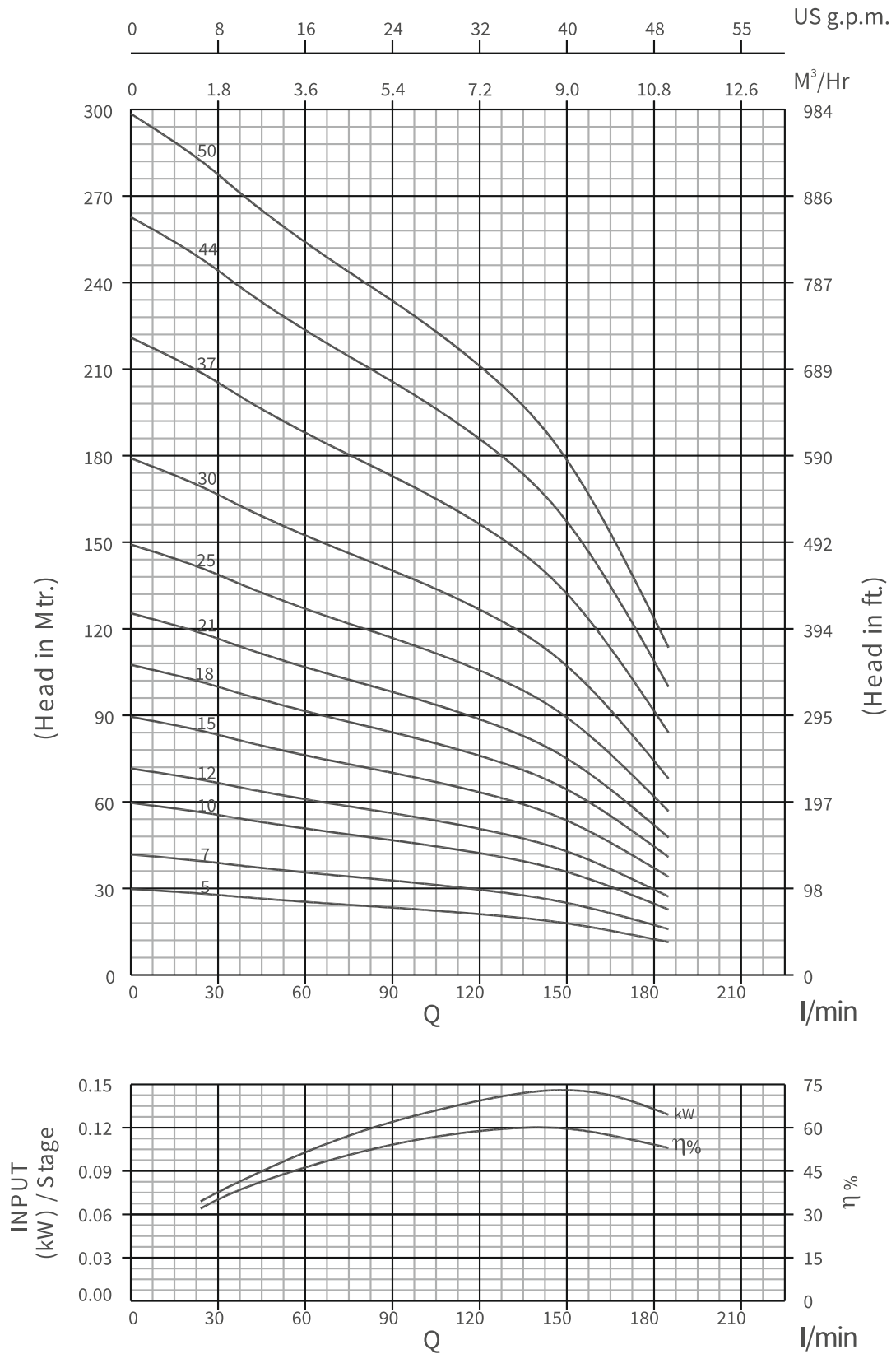
Material Specification

No.	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE CONE	S.S. 304
3.0	TOP BEARING + VALVE SEAT + GM BUSH	SUB ASSLY
3.1	VALVE SEAT	N.B.R.
3.2	TOP BEARING HOUSING	STEEL CAST 304
3.3	TOP GM BUSH	GUN METAL
4	TOP DIFFUSER	S.S. 304
5	SPACING WASHER	PTFE
6.0	DIFFUSER ASSLY	SUB ASSLY
6.1	NECK RING	N.B.R. + S.S. 304
6.2	DIFFUSER	S.S. 304
6.3	BEARING BUSH	N.B.R.
7.0	IMPELLER ASSLY	SUB ASSLY
7.1	COLLET NUT	S.S. 304
7.2	IMPELLER	S.S. 304
7.3	COLLET	S.S. 304
8	DIFFUSER 1st	S.S. 304
9.0	SHAFTING WITH COUPLING	SUB ASSLY
9.1	PUMP SHAFT	S.S. 431
9.2	COUPLING	S.S. 304
9.3	ALLEN BOLT	S.S. 304
10	STRAINER	S.S. 304
11	SUCTION	STEEL CAST 304
12	CLAMPING STRIP	S.S. 304
13	WASHER	S.S. 304
14	HEX NUT	S.S. 316
15	CABLE GUARD	S.S. 304
16	CLAMP OF CABLE GUARD	S.S. 304
17	SCREW_M4	S.S. 304



4WP 9, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES

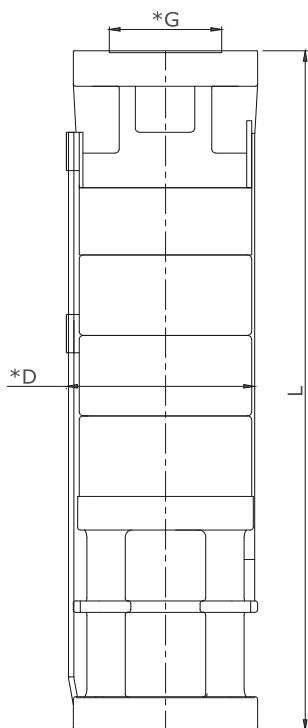


PERFORMANCE CHART

Model Name		Rating			Discharge									
Single Phase	Three Phase	Stage	kW	HP	l/min	0	24	34	67	101	134	151	168	185
					m ³ /h	0	1.44	2.0	4.0	6.0	8.0	9.0	10.0	11.1

4WP 9-05	4WP 9-05	5	0.75	1.00	HEAD IN Mtrs.	30	28	27	25	23	20	18	15	11
4WP 9-07	4WP 9-07	7	1.10	1.50		42	40	38	35	32	28	25	21	16
4WP 9-10	4WP 9-10	10	1.50	2.00		60	57	55	50	45	40	36	30	23
4WP 9-12	4WP 9-12	12	2.20	3.00		72	68	66	60	54	48	43	36	27
4WP 9-15	4WP 9-15	15	2.20	3.00		90	85	82	75	68	60	54	45	34
	4WP 9-18	18	3.00	4.00		107	102	98	89	82	72	64	53	41
	4WP 9-21	21	4.00	5.50		125	119	115	104	95	84	75	62	48
	4WP 9-25	25	4.00	5.50		149	142	136	124	114	100	89	74	57
	4WP 9-30	30	5.50	7.50		179	170	164	149	136	120	107	89	68
	4WP 9-37	37	5.50	7.50		221	210	202	184	168	148	132	110	84
	4WP 9-44	44	7.50	10.00		263	249	240	219	200	176	157	131	100
	4WP 9-50	50	7.50	10.00		298	284	273	248	227	200	178	148	114

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (incl. pkg.) Kg.
4WP 9-05	98	451	6.60	7.3
4WP 9-07	98	535	7.50	8.3
4WP 9-10	98	661	8.80	9.7
4WP 9-12	98	745	9.70	10.7
4WP 9-15	98	871	11.00	12.1
4WP 9-18	98	997	12.30	13.5
4WP 9-21	98	1123	13.60	15.0
4WP 9-25	98	1291	15.40	16.9
4WP 9-30	98	1501	17.60	19.4
4WP 9-37	98	1795	20.70	22.8
4WP 9-44	98	2089	24.30	26.7
4WP 9-50	98	2341	27.10	29.8
4WP 9-30	138	1518	19.60	21.6
4WP 9-37	138	1812	22.90	25.2
4WP 9-44	138	2106	25.80	28.4
4WP 9-50	138	2358	29.60	32.6
4WP 9-58	138	2694	31.40	34.5

* G : Available Outlet Size 1.25" BSP

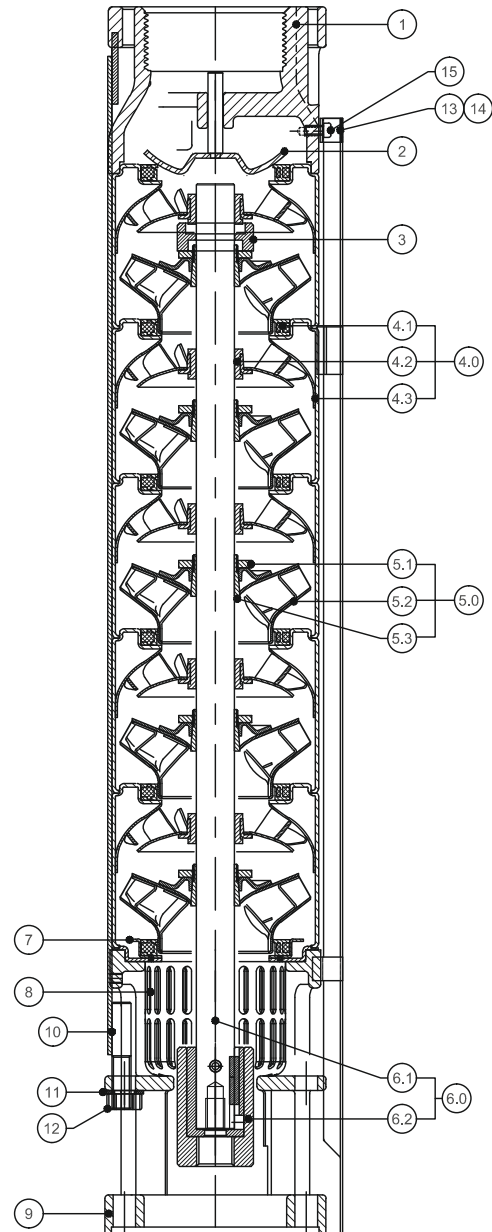
* D : With Cable Guard

4WP 9 - 30, 4WP 9 - 37, 4WP 9 - 44 & 4WP 9 - 50 Pump &
4WP 9 - 50 Pump are also available in 6" joining.

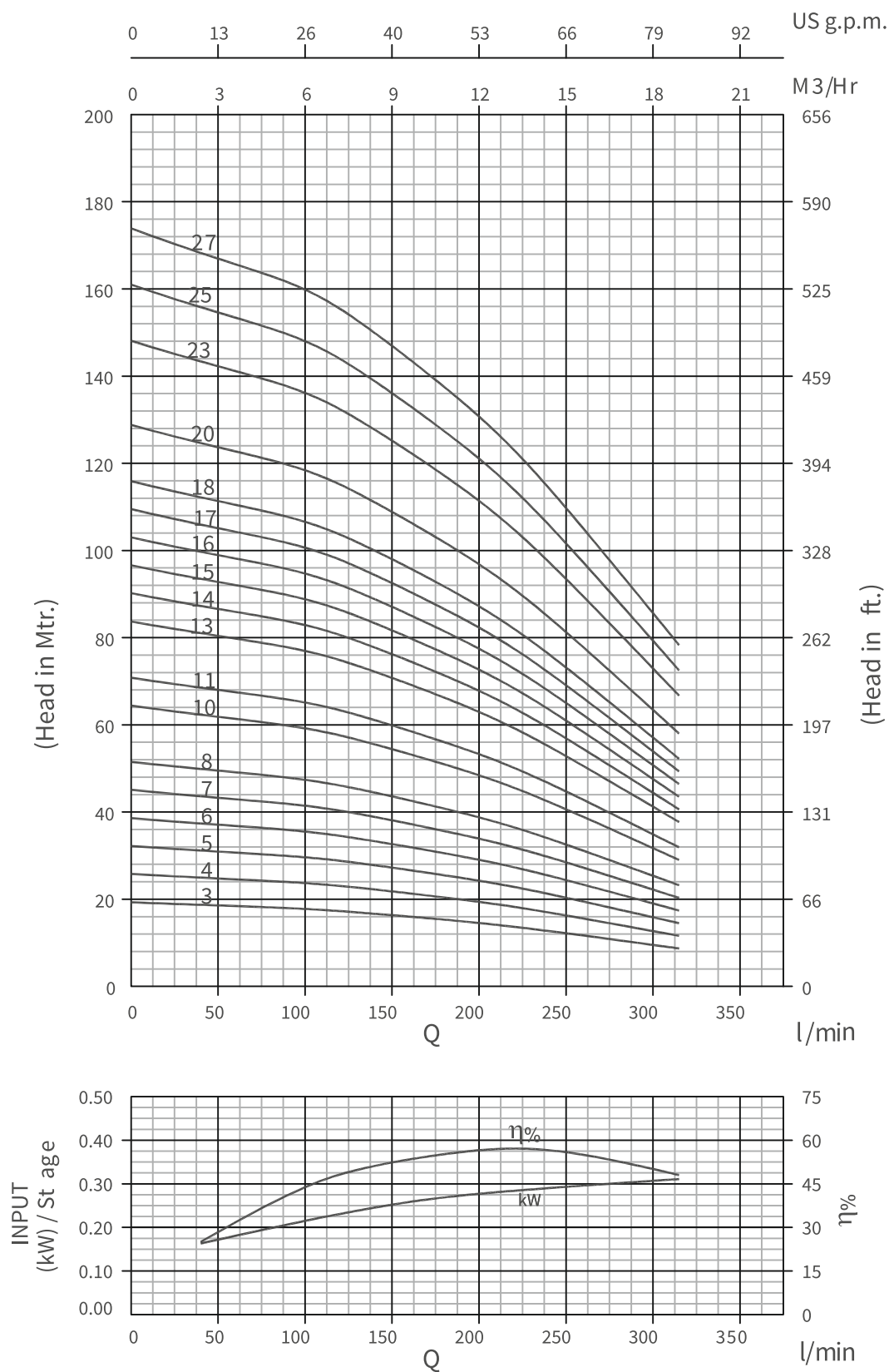
4WP 14 SERIES PUMP DESIGN

Material Specification

No.	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE CONE	S.S. 304
3	SPACING WASER	PTFE
4.0	DIFFUSER ASSLY	SUB ASSLY
4.1	NECKRING	N.B.R. + NYLON
4.2	BEARING BUSH	N.B.R
4.3	DIFFUSER	S.S. 304
5.0	IMPELLER	S.S. 304
5.1	NOT OF COLLET	S.S. 304
5.2	IMPELLER	S.S. 304
5.3	COLLET	S.S. 304
6.0	PUMP SHAFT & COUPLING	SUB ASSLY
6.1	PUMP SHAFT	S.S. 1.4362
6.2	COUPLING	S.S. 304
7	S.S.CONNECTOR	S.S. 304
8	STRAINER	S.S. 304
9	SUCTION	STEEL CAST 304
10	CLAMPING STRIP	S.S. 304
11	WASHER	S.S. 304
12	HEX NUT	S.S. 316
13	CABLE GUARD	S.S. 304
14	CLAMP OF CABLE GUARD	S.S. 304
15	SCREW_M4	S.S. 304



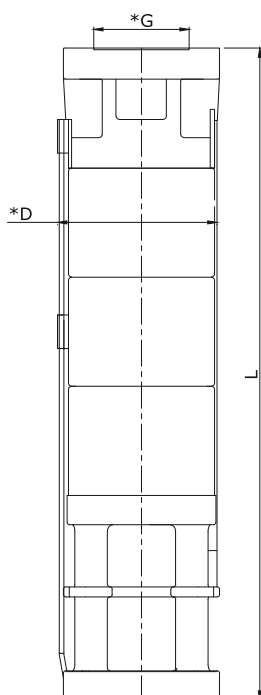
PERFORMANCE CURVES



Model Name		Stage	Rating		l/min m ³ /h	Discharge							
Single Phase	Three Phase		kW	HP		0	40	95	130	170	215	260	315
						0	2.4	5.7	7.8	10.2	12.9	15.6	18.9

4WP 14-03	4WP 14-03	03	1.10	1.50	HEAD IN Mtrs.	19	18.5	18	17	16	14	12	9
4WP 14-04	4WP 14-04	04	1.10	1.50		26	25	24	23	21	19	16	12
4WP 14-05	4WP 14-05	05	1.50	2.00		32	31	30	28	26	23	20	14
4WP 14-06	4WP 14-06	06	1.50	2.00		39	37	36	34	31	28	23	17
4WP 14-07	4WP 14-07	07	2.20	3.00		45	44	42	40	37	33	27	20
4WP 14-08	4WP 14-08	08	2.20	3.00		52	50	48	45	42	37	31	23
	4WP 14-10	10	3.00	4.00		64	62	60	57	52	47	39	29
	4WP 14-11	11	3.00	4.00		71	68	66	62	57	51	43	32
	4WP 14-13	13	3.00	4.00		84	81	78	74	68	61	51	38
	4WP 14-14	14	4.00	5.50		90	87	84	79	73	65	55	41
	4WP 14-15	15	4.00	5.50		97	93	90	85	78	70	58	44
	4WP 14-16	16	4.00	5.50		103	100	96	91	84	75	62	46
	4WP 14-17	17	4.00	5.50		109	106	102	96	89	79	66	49
	4WP 14-18	18	5.50	7.50		116	112	108	102	94	84	70	52
	4WP 14-20	20	5.50	7.50		129	124	120	113	104	93	78	58
	4WP 14-23	23	5.50	7.50		148	143	138	130	120	107	90	67
	4WP 14-25	25	7.50	10.00		161	156	150	142	130	117	98	72
	4WP 14-27	27	7.50	10.00		174	168	162	153	141	126	105	78

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (incl.pkg.) Kg.
4WP 14-03	98	387	4.70	5.4
4WP 14-04	98	452	5.40	6.2
4WP 14-05	98	517	6.10	7.0
4WP 14-06	98	582	6.9	7.9
4WP 14-07	98	647	7.7	8.9
4WP 14-08	98	712	8.4	9.7
4WP 14-10	98	842	9.9	11.4
4WP 14-11	98	907	10.6	12.2
4WP 14-13	98	1037	12.1	13.9
4WP 14-14	98	1102	12.9	14.8
4WP 14-15	98	1167	13.6	15.6
4WP 14-16	98	1232	14.4	16.6
4WP 14-17	98	1297	15.1	17.4
4WP 14-18	98	1362	16.6	19.1
4WP 14-20	98	1492	18.1	20.8
4WP 14-23	98	1687	20.4	23.5
4WP 14-25	98	1817	21.9	25.2
4WP 14-27	98	1947	23.4	26.9

* G : Available Outlet Size 2.0" BSP*

* D : With Cable Guard

4WP 14-18, 4WP 14-25, 4WP 14-27 pump are also available in 6" joining.

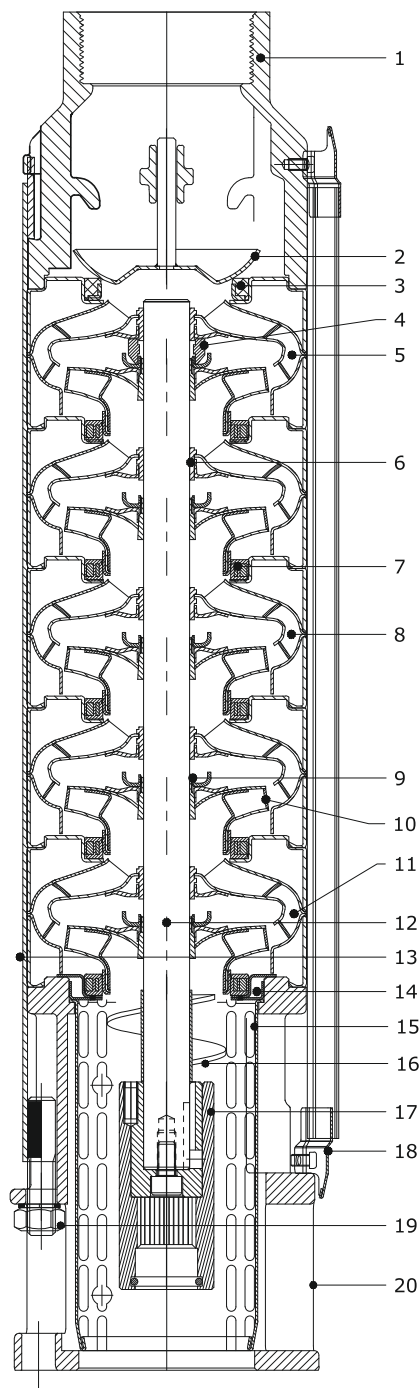
6WP 15 SERIES PUMP DESIGN

Material Specification

NO	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE	S.S.304
3	VALVE SEAT	N.B.R. + S.S.304
4	SPACING WASHER	25% CFT
5	INTERMEDIATE CHAMBER TOP	S.S.304
6	BEARING BUSH	N.B.R.
7	NECKRING	N.B.R. + NYLON
8	INTERMEDIATE CHAMBER	S.S.304
9	COLLET & COLLET NUT	S.S.304
10	IMPELLER	S.S.304
11	INTERMEDIATE CHAMBER 1St	S.S.304
12	PUMP SHAFT (UP TO 26 STAGES)	S.S.431
	PUMP SHAFT (27 STAGE & ABOVE)	S.S.1.4362
13	CLAMPING STRIP	S.S.304
14	SUCTION CONNECTOR	S.S.304
15	STRAINER	S.S.304
16	PRIMING SCREW	S.S.304
17	NEMA COUPLING	S.S.304
18	CABLE GUARD	S.S.304
19	HEX NUT	S.S.316
20	SUCTION	STEEL CAST 304

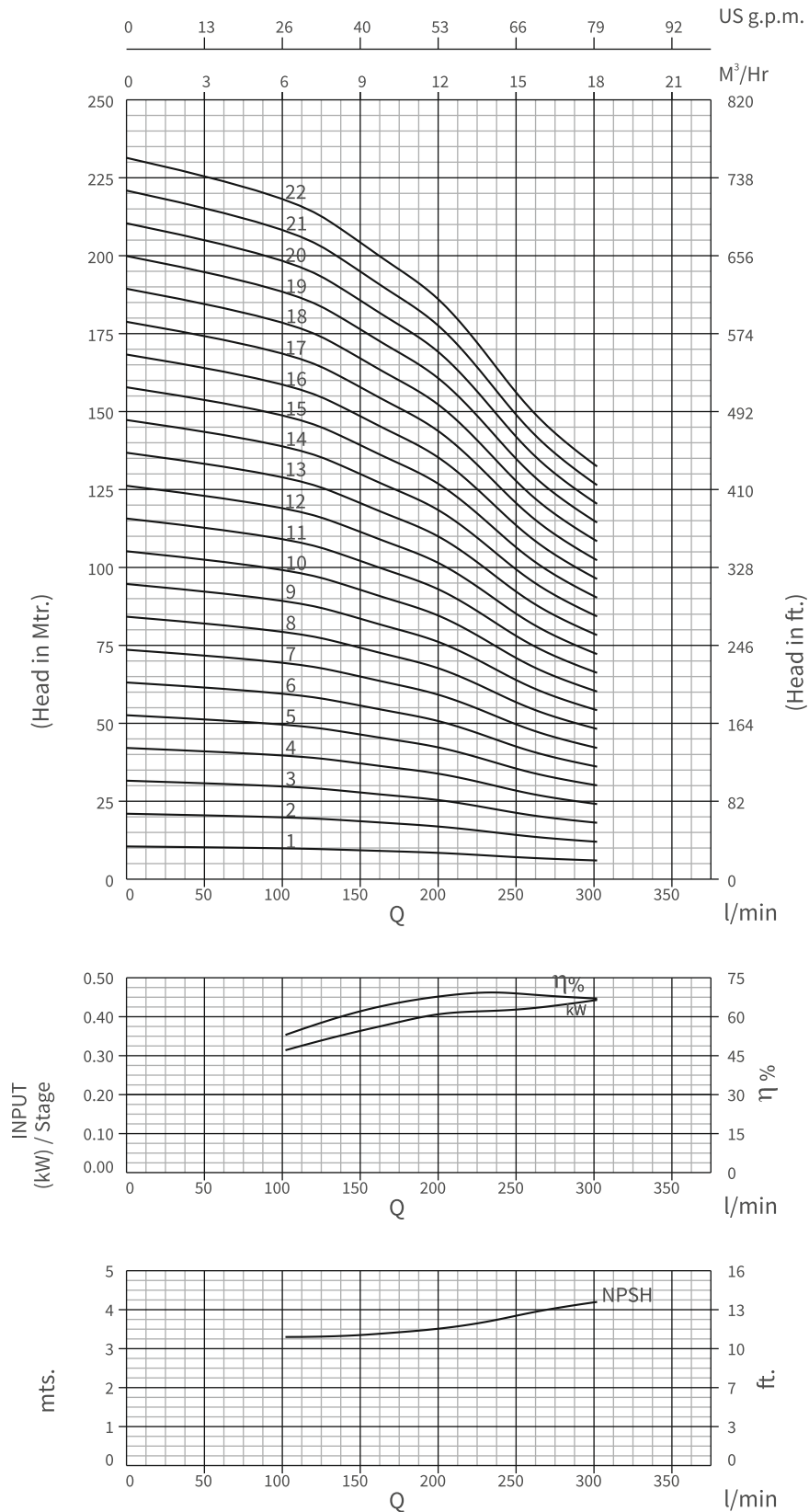
Note :

PUMPS UP TO 20 STAGE DISCHARGE CHAMBER COMES WITH S.S. FABRICATED AND FROM 21 STAGE & ONWARDS WITH STEEL CAST.

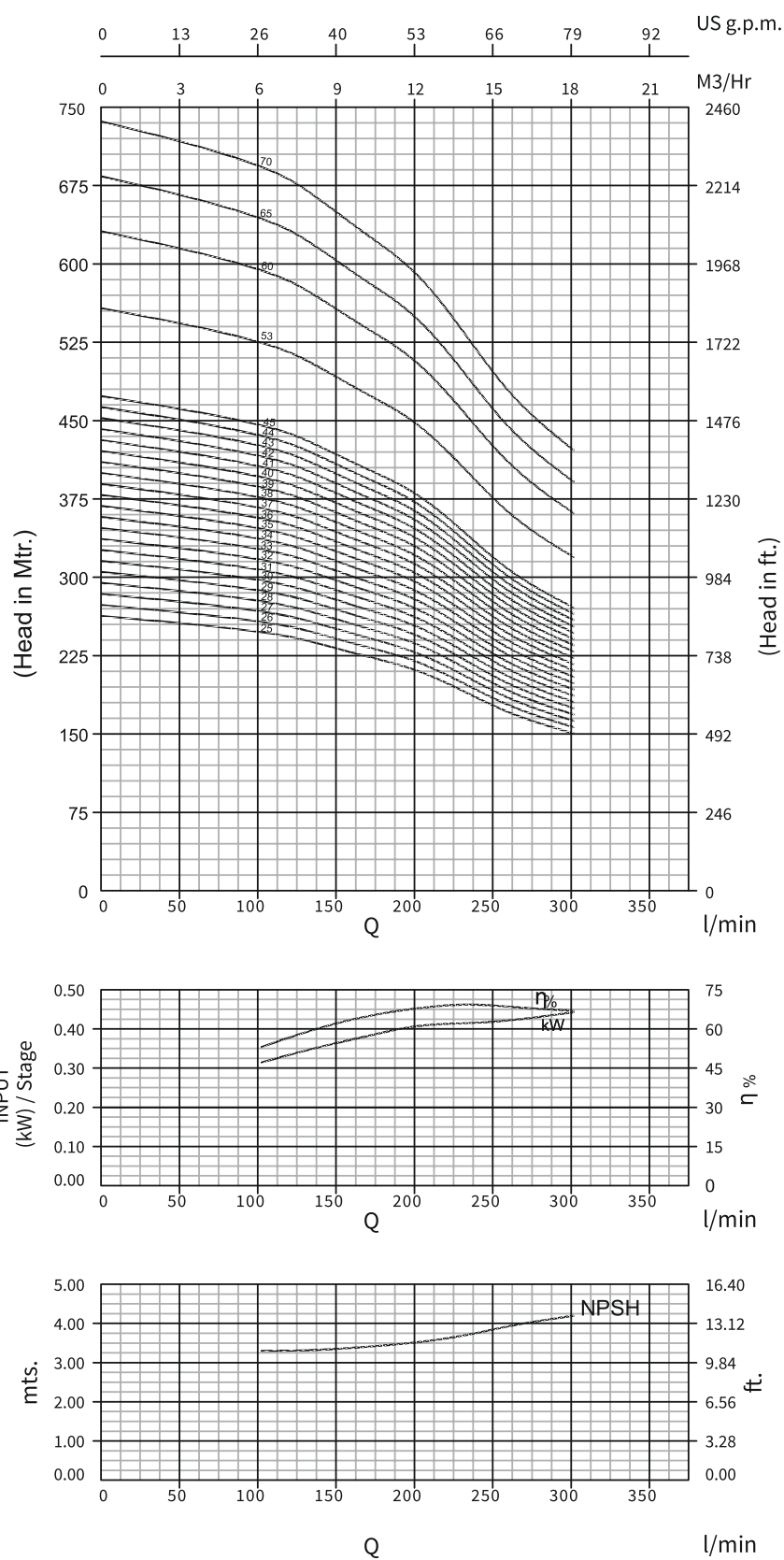


6WP 15, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



PERFORMANCE CURVES



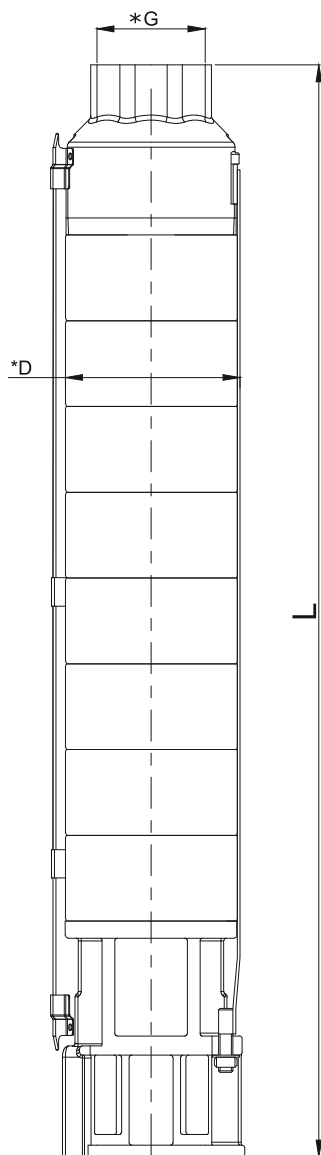
MODEL NAME		RATING			DISCHARGE							
THREE PHASE	STAGE	kW	HP	l/min m ³ /h	0	102	135	168	201	235	266	302
					0	6.1	8.1	10.0	12.0	14.1	15.9	18.1

6WP 15-01	1	0.55	0.75	HEAD IN Mtrs.	10.5	10	9.5	9	8.5	7.5	7	6
6WP 15-02	2	1.10	1.50		21	20	19	18	17	15	13	12
6WP 15-03	3	1.50	2.00		32	30	29	27	26	23	20	18
6WP 15-04	4	2.20	3.00		42	40	38	36	34	30	26	24
6WP 15-05	5	2.20	3.00		53	50	48	45	43	38	33	30
6WP 15-06	6	3.00	4.00		63	60	57	54	51	45	40	36
6WP 15-07	7	3.00	4.00		74	70	67	63	60	53	46	42
6WP 15-08	8	4.00	5.50		84	80	76	72	68	60	53	48
6WP 15-09	9	4.00	5.50		95	90	86	81	77	68	59	54
6WP 15-10	10	5.50	7.50		105	100	95	90	85	75	66	60
6WP 15-11	11	5.50	7.50		116	110	105	99	94	83	73	66
6WP 15-12	12	5.50	7.50		126	120	114	108	102	90	79	72
6WP 15-13	13	7.50	10.00		137	130	124	117	111	98	86	78
6WP 15-14	14	7.50	10.00		147	140	134	126	119	106	92	84
6WP 15-15	15	7.50	10.00		158	150	143	135	128	113	99	90
6WP 15-16	16	7.50	10.00		168	160	153	144	136	121	106	96
6WP 15-17	17	9.30	12.50		179	170	162	153	145	128	112	102
6WP 15-18	18	9.30	12.50		189	180	172	162	153	136	119	108
6WP 15-19	19	9.30	12.50		200	190	181	171	162	143	125	114
6WP 15-20	20	9.30	12.50		210	200	191	180	170	151	132	120
6WP 15-21	21	11.00	15.00		221	210	200	189	179	158	139	126
6WP 15-22	22	11.00	15.00		231	220	210	198	187	166	145	132
6WP 15-23	23	11.00	15.00		242	230	219	207	196	173	152	138
6WP 15-24	24	11.00	15.00		252	240	229	216	204	181	158	144
6WP 15-25	25	13.00	17.50		263	250	238	224	213	188	165	150
6WP 15-26	26	13.00	17.50		274	260	248	233	222	196	172	157
6WP 15-27	27	13.00	17.50		284	270	258	242	230	204	178	163
6WP 15-28	28	13.00	17.50		295	280	267	251	239	211	185	169
6WP 15-29	29	15.00	20.00		305	290	277	260	247	219	191	175
6WP 15-30	30	15.00	20.00		316	300	286	269	256	226	198	181
6WP 15-31	31	15.00	20.00		326	310	296	278	264	234	205	187
6WP 15-32	32	15.00	20.00		337	320	305	287	273	241	211	193
6WP 15-33	33	15.00	20.00		347	330	315	296	281	249	218	199
6WP 15-34	34	18.50	25.00		358	340	324	305	290	256	224	205
6WP 15-35	35	18.50	25.00		368	350	334	314	298	264	231	211
6WP 15-36	36	18.50	25.00		379	360	343	323	307	271	238	217
6WP 15-37	37	18.50	25.00		389	370	353	332	315	279	244	223
6WP 15-38	38	18.50	25.00		400	380	363	341	324	287	251	229
6WP 15-39	39	18.50	25.00		410	390	372	350	332	294	257	235
6WP 15-40	40	18.50	25.00		421	400	382	359	341	302	264	241
6WP 15-41	41	22.00	30.00		431	410	391	368	349	309	271	247
6WP 15-42	42	22.00	30.00		442	420	401	377	358	317	277	253
6WP 15-43	43	22.00	30.00		452	430	410	386	366	324	284	259
6WP 15-44	44	22.00	30.00		463	440	420	395	375	332	290	265
6WP 15-45	45	22.00	30.00		473	450	429	404	383	339	297	271
6WP 15-53	53	26.00	35.00		558	530	506	476	452	400	350	319
6WP 15-60	60	30.00	40.00		631	600	572	539	511	452	396	361
6WP 15-65	65	34.00	45.00		681	650	620	584	554	490	429	391
6WP 15-70	70	37.00	50.00		736	700	668	629	596	528	462	421

6WP 15, 50Hz

ISO 9906 Annexure A

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg	Weight (Incl. pkg) Kg
6WP 15-1	142	331	8	10
6WP 15-2	142	392	9	11
6WP 15-3	142	452	10	12
6WP 15-4	142	513	12	14
6WP 15-5	142	573	13	15
6WP 15-6	142	634	14	16
6WP 15-7	142	694	15	17
6WP 15-8	142	755	17	19
6WP 15-9	142	815	18	20
6WP 15-10	142	894	19	21
6WP 15-11	142	955	20	23
6WP 15-12	142	1015	22	24
6WP 15-13	142	1076	23	25
6WP 15-14	142	1136	24	26
6WP 15-15	142	1197	25	28
6WP 15-16	142	1257	26	29
6WP 15-17	142	1318	28	31
6WP 15-18	142	1378	29	32
6WP 15-19	142	1439	30	33
6WP 15-20	142	1499	31	34
6WP 15-21	142	1560	33	36
6WP 15-22	142	1620	34	37
6WP 15-23	142	1681	35	39
6WP 15-24	142	1741	36	40
6WP 15-25	142	1802	38	41
6WP 15-26	142	1862	39	42
6WP 15-27	142	1923	40	43
6WP 15-28	142	1983	41	45
6WP 15-29	142	2044	42	46
6WP 15-30	142	2104	44	47
6WP 15-31	142	2165	45	49
6WP 15-32	142	2225	46	50
6WP 15-33	142	2286	47	51
6WP 15-34	142	2346	49	53
6WP 15-35	142	2407	50	54
6WP 15-36	142	2467	51	55
6WP 15-37	142	2528	52	56
6WP 15-38	142	2588	53	57
6WP 15-39	142	2649	55	59
6WP 15-40	142	2709	56	60
6WP 15-41	142	2770	57	62
6WP 15-42	142	2830	58	63
6WP 15-43	142	2891	60	64
6WP 15-44	142	2951	61	65

* G : Available Outlet Size 2.0" BSP*

* D : With Cable Guard

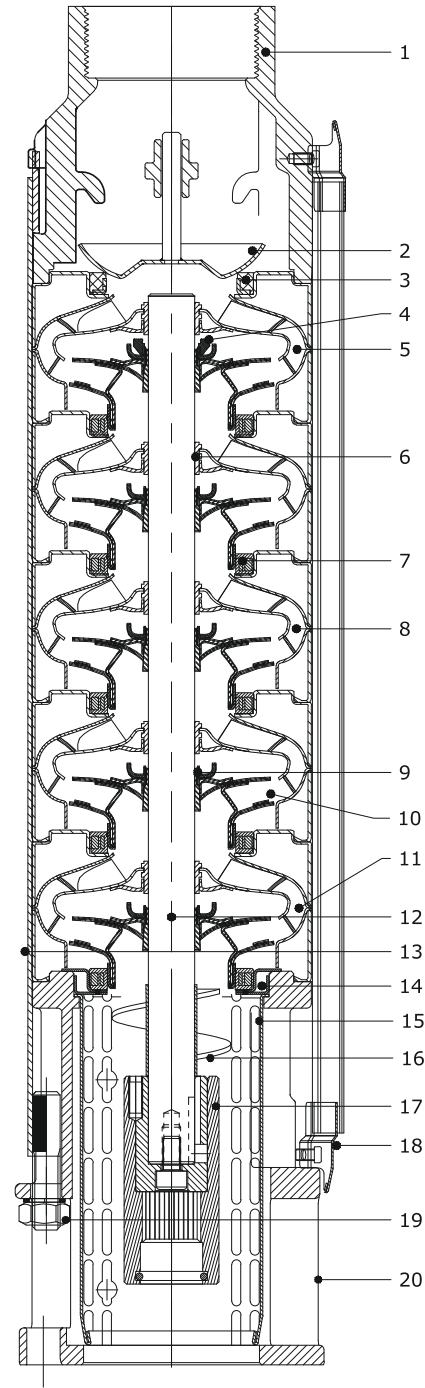
6WP 15-01, 6WP 15-16 Pumps are also available in 4" joining.

6WP 18 SERIES PUMP DESIGN

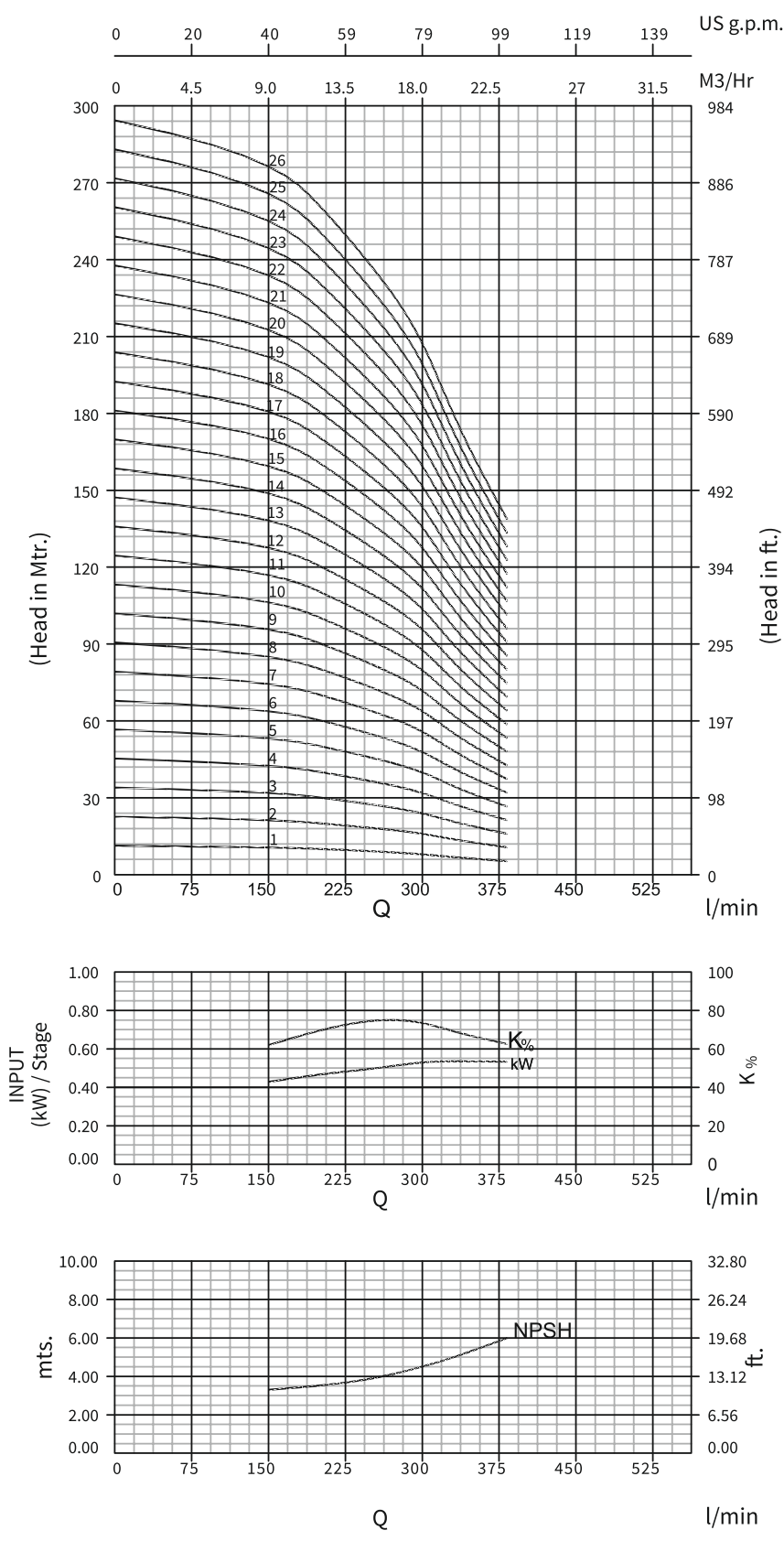
Material Specification

NO	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE	S.S.304
3	VALVE SEAT	N.B.R. + S.S.304
4	SPACING WASHER	25% CFT
5	INTERMEDIATE CHAMBER TOP	S.S.304
6	BEARING BUSH	N.B.R.
7	NECKRING	N.B.R. + NYLON
8	INTERMEDIATE CHAMBER	S.S.304
9	COLLET & COLLET NUT	S.S.304
10	IMPELLER	S.S.304
11	INTERMEDIATE CHAMBER 1st	S.S.304
12	PUMP SHAFT (UP TO 26 STAGES)	S.S.431
	PUMP SHAFT (27 STAGE & ABOVE)	S.S.1.4362
13	CLAMPING STRIP	S.S.304
14	SUCTION CONNECTOR	S.S.304
15	STRAINER	S.S.304
16	PRIMING SCREW	S.S.304
17	NEMA COUPLING	S.S.304
18	CABLE GUARD	S.S.304
19	HEX NUT	S.S.316
20	SUCTION	STEEL CAST 304

Note :
PUMPS UP TO 20 STAGE DISCHARGE
CHAMBER COMES WITH S.S.
FABRICATED AND FROM 21 STAGE &
ONWARDS WITH STEEL CAST.



PERFORMANCE CURVES



6WP 18, 50Hz

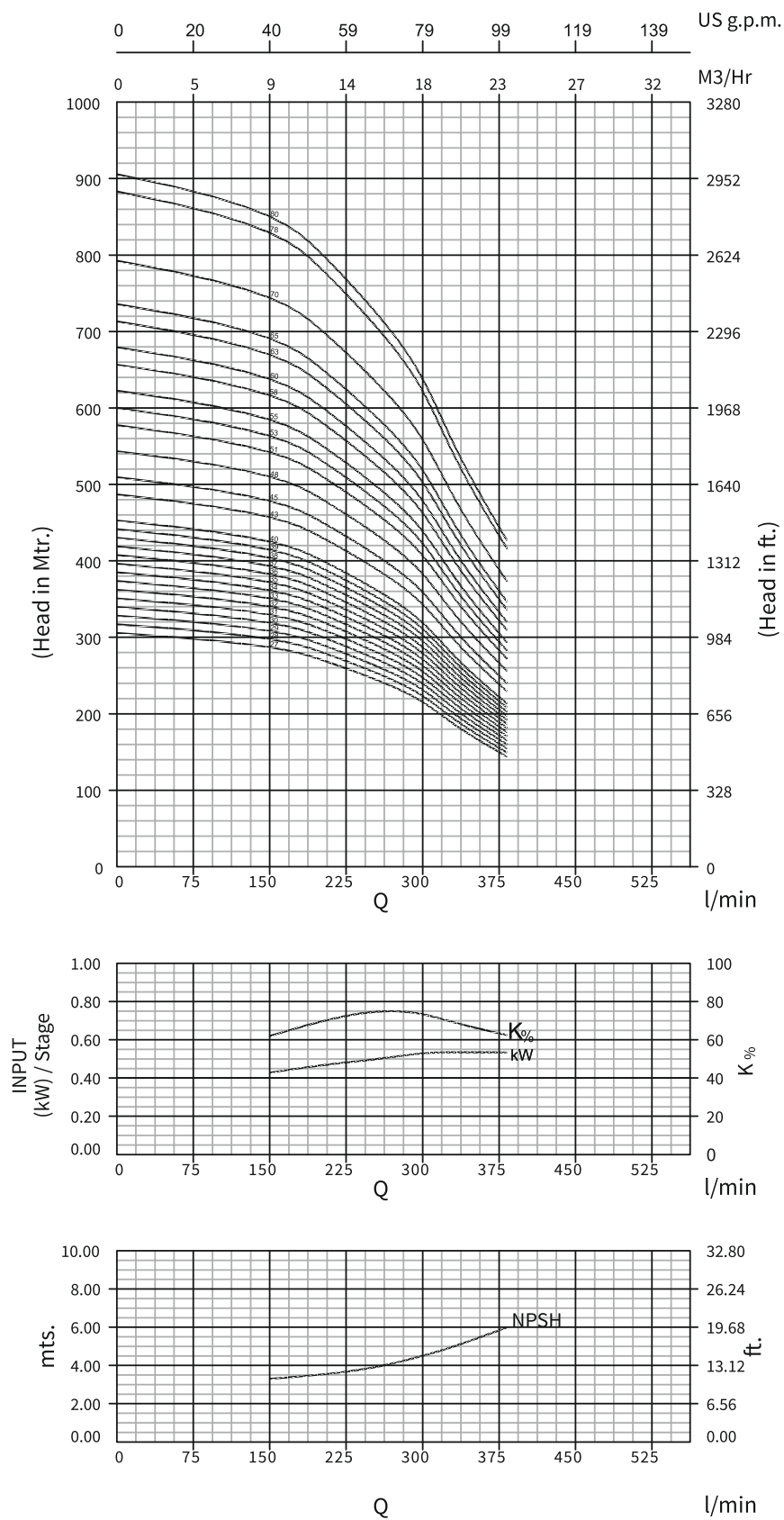
ISO 9906 Annexure A

PERFORMANCE CHART

MODEL NAME		RATING			Discharge						
THREE PHASE	STAGE	kW	HP	l/min	0	150	200	250	300	333	383
				m ³ /h	0	9	12	15	18	20	23

6WP 18-01	1	0.55	0.75	HEAD IN Mtrs.	11.3	11	10	9	8	7	5
6WP 18-02	2	1.10	1.50		23	22	20	18	16	13	11
6WP 18-03	3	2.20	3.00		34	32	30	27	24	20	16
6WP 18-04	4	2.20	3.00		45	43	40	37	33	27	21
6WP 18-05	5	3.00	4.00		57	54	50	46	41	34	27
6WP 18-06	6	4.00	5.50		68	65	60	55	49	40	32
6WP 18-07	7	4.00	5.50		79	76	70	64	57	47	37
6WP 18-08	8	5.50	7.50		91	87	80	73	65	54	43
6WP 18-09	9	5.50	7.50		102	97	91	82	73	60	48
6WP 18-10	10	5.50	7.50		113	108	101	92	81	67	53
6WP 18-11	11	7.50	10.00		125	119	111	101	89	74	59
6WP 18-12	12	7.50	10.00		136	130	121	110	98	80	64
6WP 18-13	13	7.50	10.00		147	141	131	119	106	87	69
6WP 18-14	14	9.30	12.50		158	152	141	128	114	94	75
6WP 18-15	15	9.30	12.50		170	162	151	137	122	100	80
6WP 18-16	16	9.30	12.50		181	173	161	147	130	107	85
6WP 18-17	17	9.30	12.50		192	184	171	156	138	114	91
6WP 18-18	18	11.00	15.00		204	195	181	165	146	121	96
6WP 18-19	19	11.00	15.00		215	206	191	174	154	127	101
6WP 18-20	20	11.00	15.00		226	217	201	183	163	134	107
6WP 18-21	21	13.00	17.50		238	227	211	192	171	141	112
6WP 18-22	22	13.00	17.50		249	238	221	202	179	147	117
6WP 18-23	23	13.00	17.50		260	249	231	211	187	154	123
6WP 18-24	24	13.00	17.50		272	260	241	220	195	161	128
6WP 18-25	25	15.00	20.00		283	271	252	229	203	168	133
6WP 18-26	26	15.00	20.00		294	282	262	238	211	174	174

PERFORMANCE CURVES



6WP 18, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART

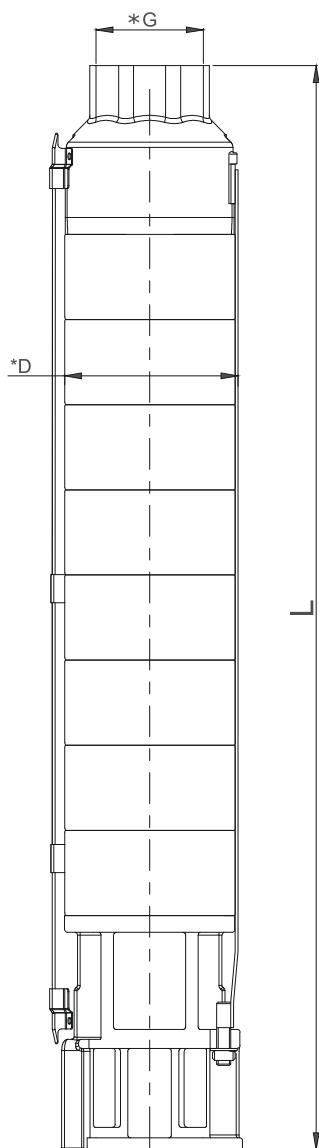
MODEL NAME		RATING			Discharge						
THREE PHASE	STAGE	kW	HP	l/min	0	150	200	250	300	333	383
				m ³ /h	0	9	12	15	18	20	23

6WP 18-25	25	15.00	20.00	HEAD IN Mtrs.	283	271	252	229	203	168	133
6WP 18-26	26	15.00	20.00		294	282	262	238	211	174	139
6WP 18-27	27	15.00	20.00		306	292	272	247	220	181	144
6WP 18-28	28	18.50	25.00		317	303	282	256	228	188	149
6WP 18-29	29	18.50	25.00		328	314	292	266	236	194	155
6WP 18-30	30	18.50	25.00		340	325	302	275	244	201	160
6WP 18-31	31	18.50	25.00		351	336	312	284	252	208	165
6WP 18-32	32	18.50	25.00		362	347	322	293	260	214	171
6WP 18-33	33	18.50	25.00		374	357	332	302	268	221	176
6WP 18-34	34	22.00	30.00		385	368	342	311	276	228	181
6WP 18-35	35	22.00	30.00		396	379	352	321	285	234	187
6WP 18-36	36	22.00	30.00		408	390	362	330	293	241	192
6WP 18-37	37	22.00	30.00		419	401	372	339	301	248	197
6WP 18-38	38	22.00	30.00		430	412	382	348	309	255	203
6WP 18-39	39	22.00	30.00		441	422	392	357	317	261	208
6WP 18-40	40	22.00	30.00		453	433	402	366	325	268	213
6WP 18-43	43	26.00	35.00		487	466	433	394	350	288	229
6WP 18-45	45	26.00	35.00		509	487	453	412	366	302	240
6WP 18-48	48	26.00	35.00		543	520	483	440	390	322	256
6WP 18-51	51	30.00	40.00		577	552	513	467	415	342	272
6WP 18-53	53	30.00	40.00		600	574	533	485	431	355	282
6WP 18-55	55	37.00	50.00		623	596	553	504	447	368	293
6WP 18-58	58	37.00	50.00		657	628	583	531	472	389	309
6WP 18-60	60	37.00	50.00		679	650	604	550	488	402	320
6WP 18-63	63	37.00	55.00		713	682	634	577	512	422	336
6WP 18-65	65	45.00	60.00		736	704	654	595	528	436	346
6WP 18-70	70	45.00	60.00		792	758	704	641	569	469	373
6WP 18-78	78	45.00	60.00		883	845	785	714	634	523	416
6WP 18-80	80	45.00	60.00		906	866	805	733	650	536	426

6WP 18, 50Hz

ISO 9906 Annexure A

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (Incl. pkg.) Kg.
6WP 18-01	142	331	8	10
6WP 18-02	142	392	9	11
6WP 18-03	142	452	11	12
6WP 18-04	142	513	12	13
6WP 18-05	142	573	13	15
6WP 18-06	142	634	14	16
6WP 18-07	142	694	16	18
6WP 18-08	142	755	17	19
6WP 18-09	142	815	18	20
6WP 18-10	142	894	19	21
6WP 18-11	142	955	21	23
6WP 18-12	142	1015	22	24
6WP 18-13	142	1076	23	26
6WP 18-14	142	1136	24	27
6WP 18-15	142	1197	26	28
6WP 18-16	142	1257	27	30
6WP 18-17	142	1318	28	31
6WP 18-18	142	1378	29	32
6WP 18-19	142	1439	31	34
6WP 18-20	142	1499	32	35
6WP 18-21	142	1560	33	37
6WP 18-22	142	1620	34	38
6WP 18-23	142	1681	36	39
6WP 18-24	142	1741	37	40
6WP 18-25	142	1802	38	42
6WP 18-26	142	1862	39	43
6WP 18-27	142	1923	41	44
6WP 18-28	142	1983	42	45
6WP 18-29	142	2044	43	47
6WP 18-30	142	2104	44	48
6WP 18-31	142	2165	46	50
6WP 18-32	142	2225	47	51
6WP 18-33	142	2286	48	52
6WP 18-34	142	2346	49	53
6WP 18-35	142	2407	51	55
6WP 18-36	142	2467	52	56
6WP 18-37	142	2528	53	57
6WP 18-38	142	2588	54	58
6WP 18-39	142	2649	56	60
6WP 18-40	142	2709	57	61
6WP 18-43	142	2891	62	66
6WP 18-45	142	3012	64	68
6WP 18-48	142	3193	67	71
6WP 18-51	142	3375	71	75
6WP 18-53	142	3496	73	77
6WP 18-55	142	3617	75	79
6WP 18-58	142	3798	79	84
6WP 18-60	142	3919	81	86

* G : Available Outlet Size 2.5" BSP & 3.0" BSP

* D : With Cable Guard

6WP 18-01 to 6WP 18 - 13 Pumps are also available in 4" joining.

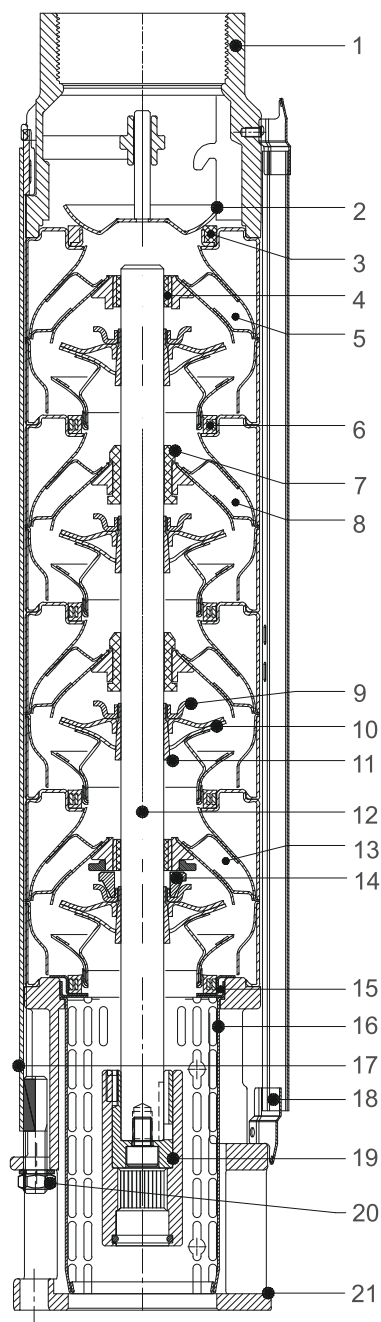
6WP 32 SERIES PUMP DESIGN

Material Specification

NO	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE	S.S.304
3	VALVE SEAT	N.B.R. + S.S.304
4	TOP & FIRST BEARING BUSH	N.B.R. + S.S.304
5	INTERMEDIATE CHAMBER TOP	S.S.304
6	NECKRING	N.B.R. + NYLON
7	BEARING BUSH	N.B.R.
8	INTER MEDIATE CHAMBER	S.S.304
9	COLLET NUT	S.S.304
10	IMPELLER	S.S.304
11	COLLET	S.S.304
12	PUMP SHAFT (UP TO 18 STAGES)	S.S.431
	PUMP SHAFT (19 STAGE & ABOVE)	S.S.1.4362
13	INTER MEDIATE CHAMBER 1st	S.S.304
14	SPACING WASHER	25% CFT
15	CONNECTOR	S.S.304
16	STRAINER	S.S.304
17	CLAMPING STRIP	S.S.304
18	CABLE GUARD	S.S.304
19	NEMA COUPLING	S.S.304
20	HEX NUT	S.S.316
20	SUCTION	STEEL CAST 304

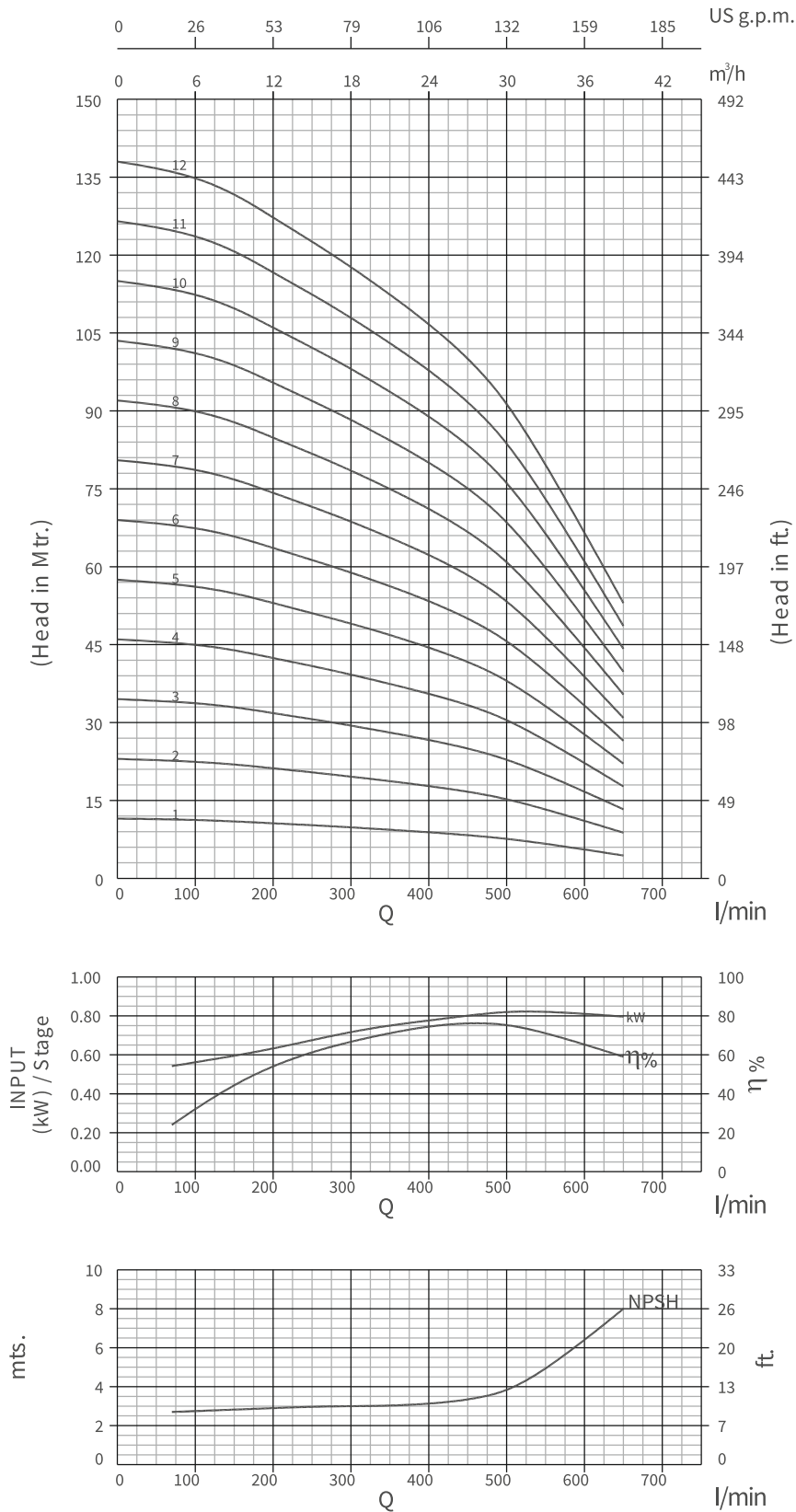
Note :

PUMPS UP TO 20 STAGE DISCHARGE CHAMBER COMES WITH S.S. FABRICATED AND FROM 21 STAGE & ONWARDS WITH STEEL CAST.



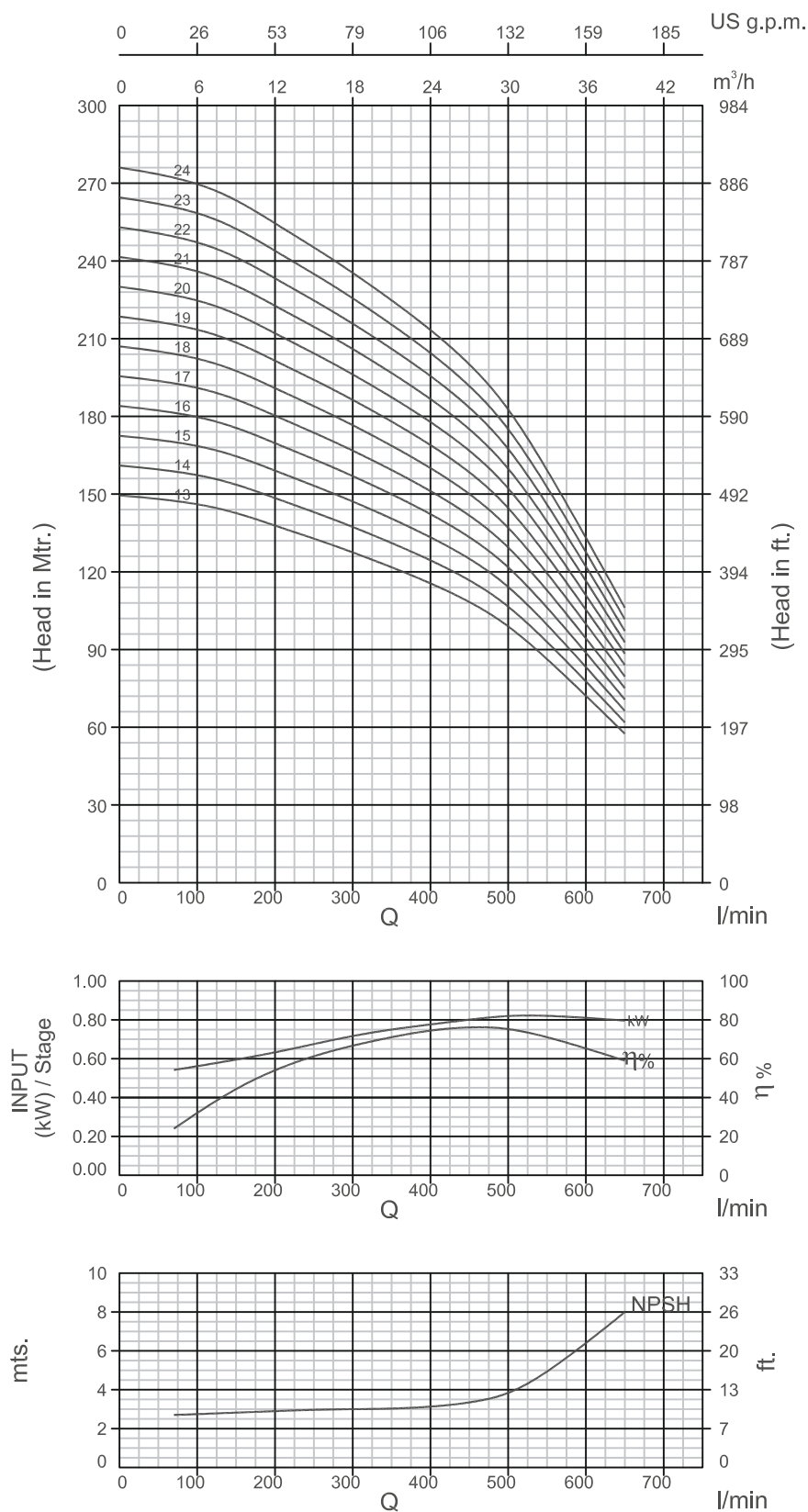
6WP 32, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES

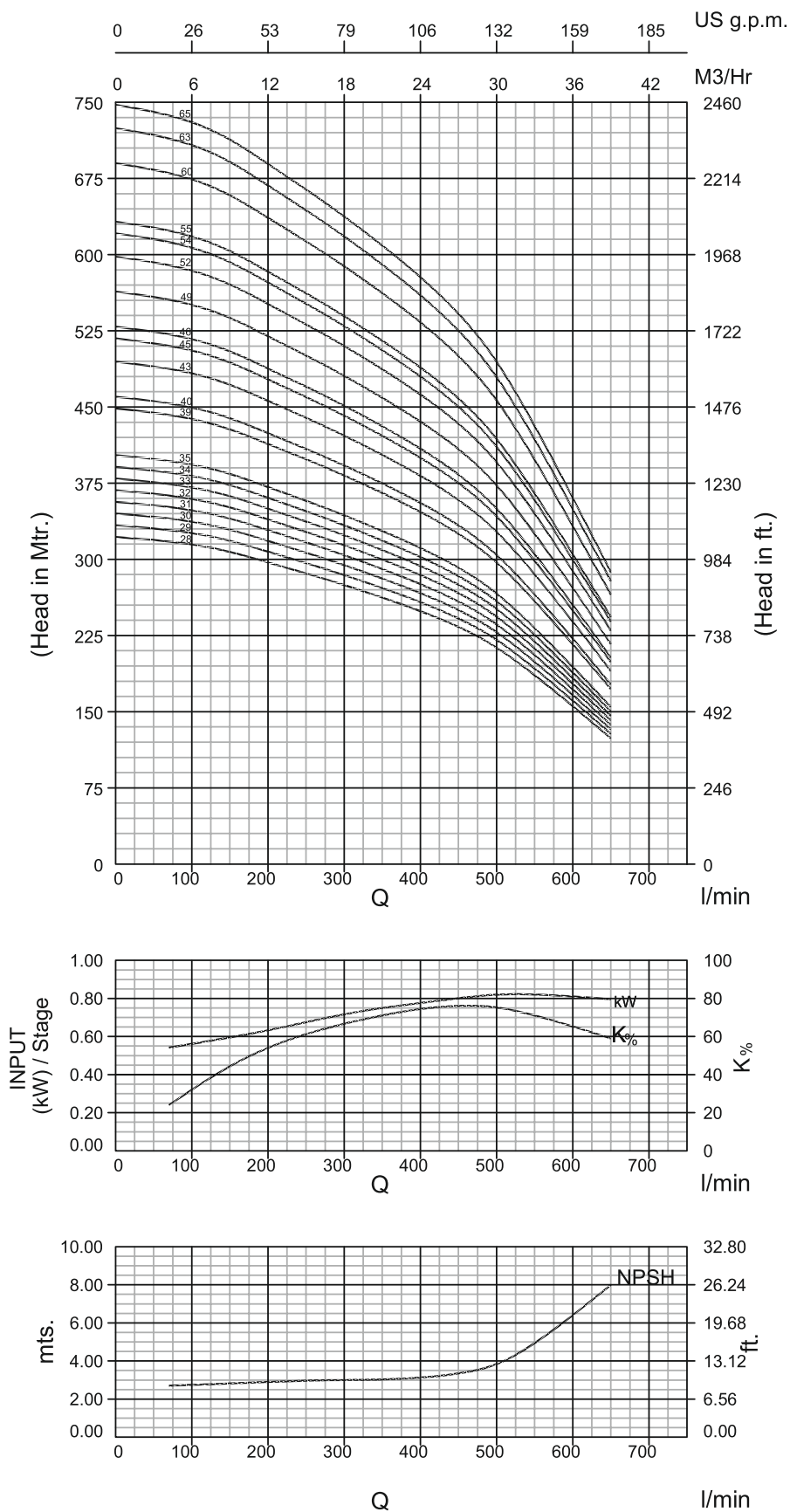


6WP 32, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



PERFORMANCE CURVES



6WP 32, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART



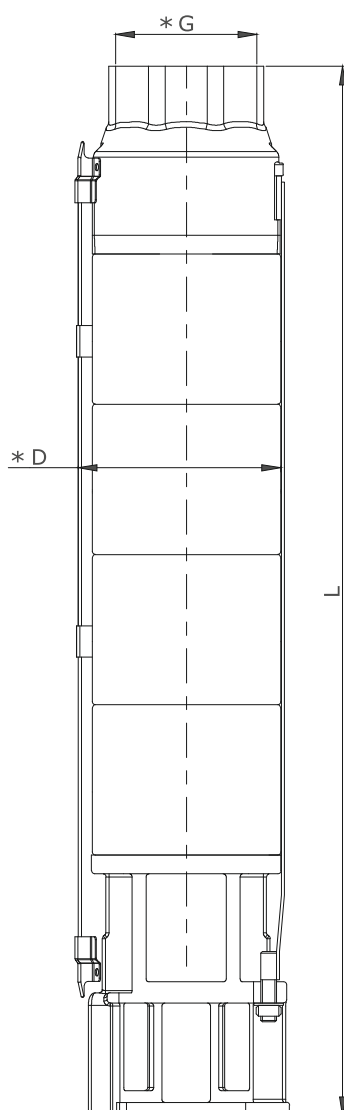
Model Name		Rating			Discharge									
Three Phase	Stage	kW	HP	l/min m³/h	0	70	135	200	270	335	400	470	535	650
					0	4.2	8.1	12.0	16.2	20.1	24.0	28.2	32.1	39.0

6WP 32-01	1	1.10	1.50	HEAD IN Mtrs.	11.5	11.3	11	10.5	10	9.5	9	8	7	4
6WP 32-02	2	2.20	3.00		23	22.5	22	21	20	19	18	16	14	9
6WP 32-03	3	3.00	4.00		34.5	34	33	32	30	29	27	24	21	13
6WP 32-04	4	4.00	5.50		46	45	44	42	40	38	36	33	28	18
6WP 32-05	5	5.50	7.50		58	57	56	53	50	48	45	41	35	22
6WP 32-06	6	5.50	7.50		69	68	67	64	60	57	53	49	42	27
6WP 32-07	7	7.50	10.00		80.5	80	78	74	70	67	62	57	49	31
6WP 32-08	8	7.50	10.00		92	91	89	85	81	76	71	65	56	35
6WP 32-09	9	9.30	12.50		104	102	100	95	91	86	80	73	63	40
6WP 32-10	10	9.30	12.50		115	114	111	106	101	95	89	81	70	44
6WP 32-11	11	9.30	12.50		126	125	122	117	111	105	98	90	78	49
6WP 32-12	12	11.00	15.00		138	136	133	127	121	114	107	98	85	53
6WP 32-13	13	11.00	15.00		150	148	145	138	131	124	116	106	92	57
6WP 32-14	14	13.00	17.50		161	159	156	148	141	133	125	114	99	62
6WP 32-15	15	13.00	17.50		172	171	167	159	151	143	134	122	106	66
6WP 32-16	16	15.00	20.00		184	182	178	170	161	152	143	130	113	71
6WP 32-17	17	15.00	20.00		196	193	189	180	171	162	151	138	120	75
6WP 32-18	18	18.50	25.00		207	205	200	191	181	171	160	147	127	80
6WP 32-19	19	18.50	25.00		218	216	211	201	191	181	169	155	134	84
6WP 32-20	20	18.50	25.00		230	227	222	212	201	190	178	163	141	88
6WP 32-21	21	18.50	25.00		242	239	234	223	211	200	187	171	148	93
6WP 32-22	22	22.00	30.00		253	250	245	233	222	209	196	179	155	97
6WP 32-23	23	22.00	30.00		264	262	256	244	232	219	205	187	162	102
6WP 32-24	24	22.00	30.00		276	273	267	254	242	228	214	195	169	106
6WP 32-25	25	22.00	30.00		288	284	278	265	252	238	223	204	176	110
6WP 32-26	26	22.00	30.00		299	296	289	276	262	247	232	212	183	115
6WP 32-27	27	26.00	35.00		310	307	300	286	272	257	241	220	190	119
6WP 32-28	28	26.00	35.00		322	318	311	297	282	266	249	228	197	124
6WP 32-29	29	26.00	35.00		334	330	322	307	292	276	258	236	204	128
6WP 32-30	30	26.00	35.00		345	341	334	318	302	285	267	244	212	133
6WP 32-31	31	26.00	35.00		356	352	345	329	312	295	276	252	219	137
6WP 32-32	32	30.00	40.00		368	364	356	339	322	304	285	260	226	141
6WP 32-33	33	30.00	40.00		380	375	367	350	332	314	294	269	233	146
6WP 32-34	34	30.00	40.00		391	387	378	360	342	323	303	277	240	150
6WP 32-35	35	30.00	40.00		402	398	389	371	352	333	312	285	247	155
6WP 32-39	39	37.00	50.00		448	443	434	413	393	371	347	317	275	172
6WP 32-43	43	37.00	50.00		494	489	478	456	433	409	383	350	303	190
6WP 32-45	45	37.00	50.00		518	512	500	477	453	428	401	366	317	199
6WP 32-46	46	45.00	60.00		529	523	512	488	463	437	410	374	324	203
6WP 32-49	49	55.00	60.00		564	557	545	519	493	466	437	399	345	217
6WP 32-52	52	55.00	60.00		598	591	578	551	524	495	463	423	367	230
6WP 32-54	54	55.00	75.00		621	614	600	572	544	514	481	440	381	239
6WP 32-55	55	55.00	75.00		632	625	612	583	554	523	490	448	388	243
6WP 32-60	60	60.00	80.00		690	682	667	636	604	571	535	488	423	265
6WP 32-63	63	63.00	85.00		724	716	701	668	634	599	561	513	444	278
6WP 32-65	65	63.00	85.00		748	739	723	689	655	618	579	529	458	287

6WP 32, 50Hz

ISO 9906 Annexure A

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (Incl. pkg.) Kg.
6WP 32-01	142	369	9	10
6WP 32-02	142	465	11	12
6WP 32-03	142	561	13	15
6WP 32-04	142	657	15	17
6WP 32-05	142	753	17	19
6WP 32-06	142	849	19	22
6WP 32-07	142	947	21	24
6WP 32-08	142	1041	23	26
6WP 32-09	142	1137	25	28
6WP 32-10	142	1249	27	31
6WP 32-11	142	1345	29	33
6WP 32-12	142	1441	31	35
6WP 32-13	142	1537	33	37
6WP 32-14	142	1633	35	40
6WP 32-15	142	1729	37	42
6WP 32-16	142	1825	39	44
6WP 32-17	142	1921	41	47
6WP 32-18	142	2017	43	49
6WP 32-19	142	2113	45	51
6WP 32-20	142	2209	47	53
6WP 32-21	142	2305	49	56
6WP 32-22	142	2401	51	58
6WP 32-23	142	2497	53	60
6WP 32-24	142	2593	55	62
6WP 32-25	142	2689	57	65
6WP 32-26	142	2785	59	67
6WP 32-27	142	2881	61	69
6WP 32-28	142	2977	63	72
6WP 32-29	142	3073	65	74
6WP 32-30	142	3169	67	76
6WP 32-31	142	3265	69	78
6WP 32-32	142	3361	71	81
6WP 32-33	142	3457	73	83
6WP 32-34	142	3553	75	85
6WP 32-35	142	3631	77	87
6WP 32-39	142	4033	87	96
6WP 32-43	142	4417	95	106
6WP 32-46	142	4705	99	112
6WP 32-49	142	4993	105	119
6WP 32-52	142	5281	111	126
6WP 32-54	142	5473	115	131
6WP 32-58	142	5857	123	140
6WP 32-60	142	6049	127	144

* G : Available Outlet Size 2.5" BSP & 3.0" BSP

* D : With Cable Guard

6WP 32-01, 6WP 32-08 Pumps are also available in 4" joining.

6WP 32-46, 6WP 32-49, 6WP 32-52, 6WP 32-54, 6WP 58 & 6WP 32-60 Pumps are also available with & without mounted sleeve in 8" joining.

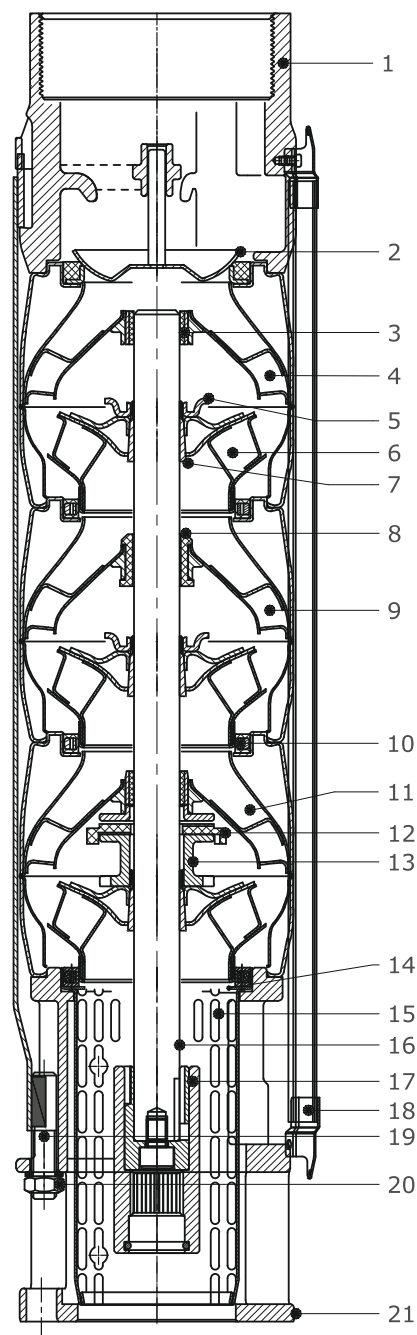
6WP 48 & 6WP 62 SERIES PUMP DESIGN

Material Specification

No	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	VALVE	S.S.304
3	TOP & FIRST BEARING BUSH	N.B.R. + S.S.304
4	INTERMEDIATE CHAMBER TOP	S.S.304
5	COLLET NUT	S.S.304
6	IMPELLER	S.S.304
7	COLLET	S.S.304
8	BEARING BUSH	NBR
9	INTERMEDIATE CHAMBER STAGE	S.S.304
10	NECKRING	N.B.R. + NYLON
11	INTERMEDIATE CHAMBER 1st	S.S.304
12	SPACING WASHER	25% CFT
13	FIRST STAGE NUT	STEEL CAST 304
14	RETAINER	S.S.304
15	STRAINER	S.S.304
16	PUMP SHAFT (UP TO 09 STAGES)	S.S.431
	PUMP SHAFT (10 STAGE & ABOVE)	S.S.1.4362
17	NEMA COUPLING	S.S.304
18	CABLE GUARD	S.S.304
19	CLAMPING STRIP	S.S.304
20	HEX NUT	S.S. 316
21	SUCTION	STEEL CAST 304

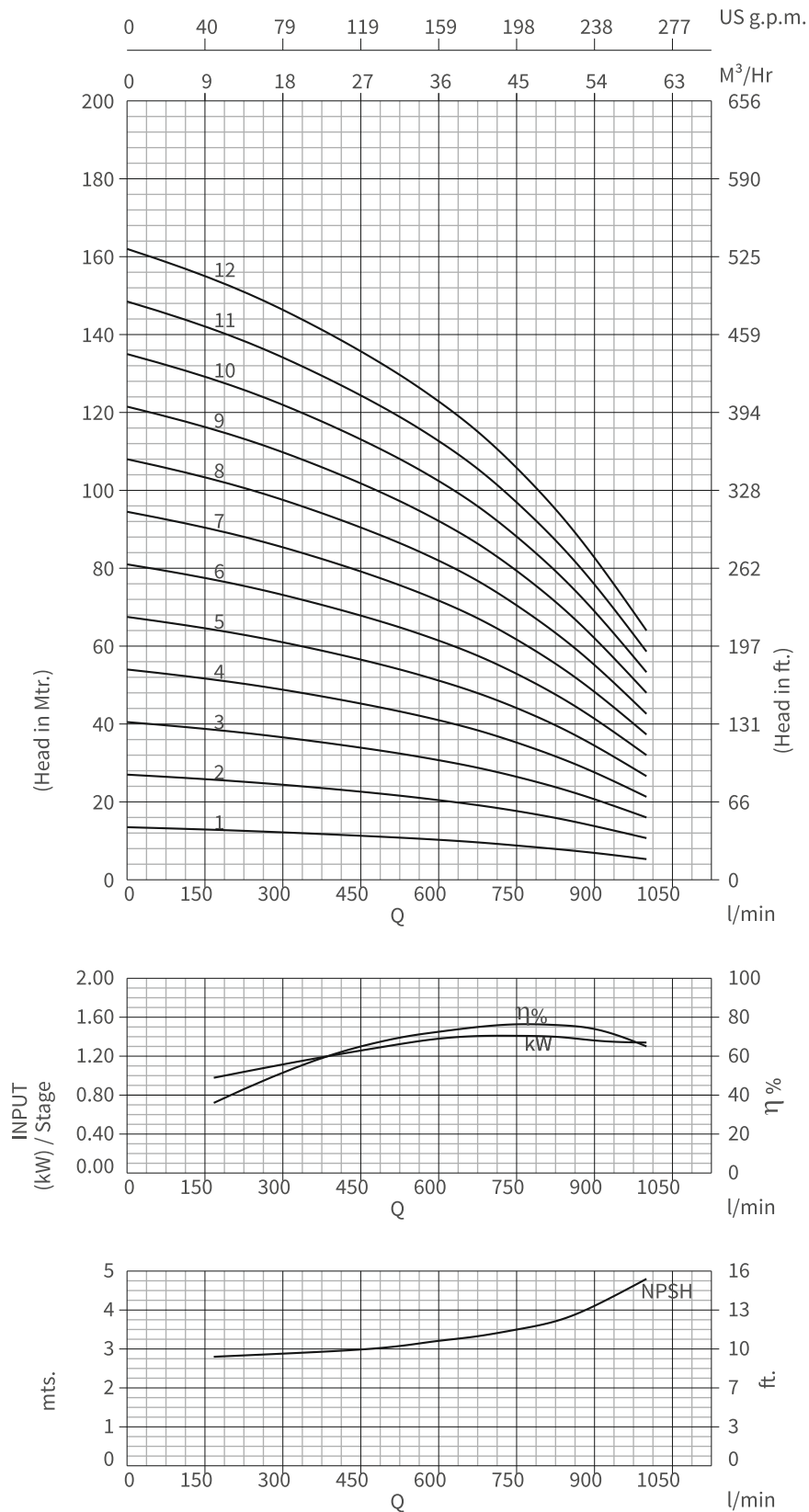
NOTE :

PUMPS UP TO 20 STAGE DISCHARGE CHAMBER COMES WITH S.S. FABRICATED AND FROM 21 STAGE & ONWARDS WITH STEEL CAST.



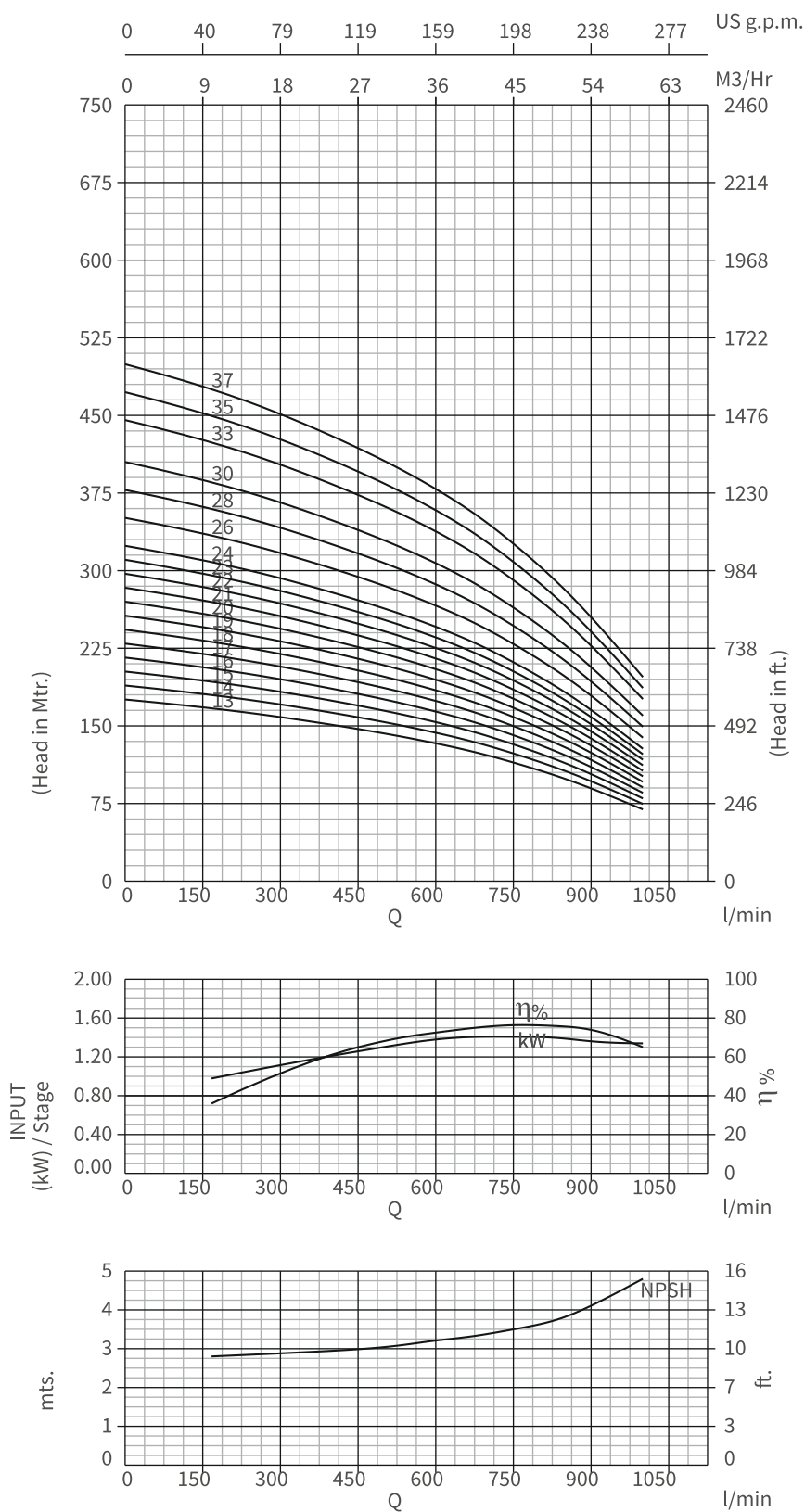
6WP 48, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



6WP 48, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES

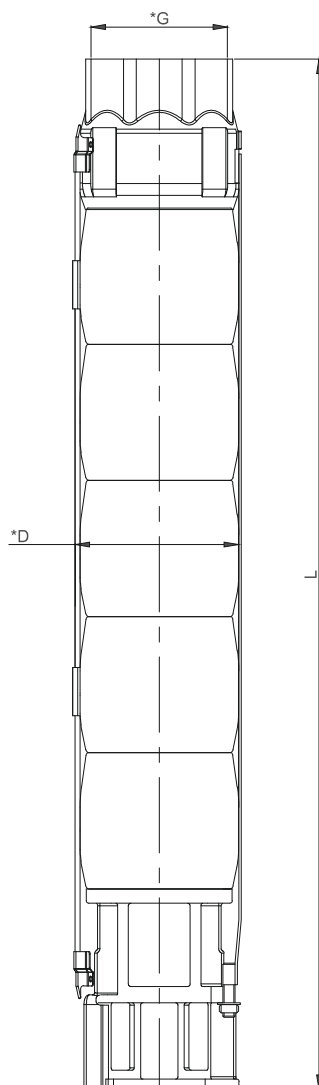


PERFORMANCE CHART

MODEL NAME		RATING			DISCHARGE									
THREE PHASE	STAGE	kW	HP	l/min	0	167	335	500	585	670	750	835	917	1000
				m³/h	0	10.0	20.1	30.0	35.1	40.2	45.0	50.1	55.0	60.0

6WP 48-01	1	2.20	3.00	HEAD IN Mtrs.	14	13	12	11	10	9.5	9	8	7	5
6WP 48-02	2	3.00	4.00		27	26	24	22	21	19	18	16	13	11
6WP 48-03	3	5.50	7.50		40	39	36	33	31	29	26	23	20	16
6WP 48-04	4	7.50	10.00		54	52	48	44	41	39	35	31	27	21
6WP 48-05	5	7.50	10.00		68	64	60	55	52	48	44	39	33	27
6WP 48-06	6	9.30	12.50		81	77	72	66	62	58	53	47	40	32
6WP 48-07	7	11.00	15.00		94	90	84	77	73	68	62	55	47	37
6WP 48-08	8	13.00	17.50		108	103	96	88	83	77	71	63	53	43
6WP 48-09	9	15.00	20.00		122	116	108	99	93	87	79	70	60	48
6WP 48-10	10	15.00	20.00		135	129	120	110	104	97	88	78	67	53
6WP 48-11	11	18.50	25.00		148	142	132	121	114	106	97	86	73	59
6WP 48-12	12	18.50	25.00		162	155	144	132	124	116	106	94	80	64
6WP 48-13	13	22.00	30.00		176	168	157	143	135	126	115	102	87	69
6WP 48-14	14	22.00	30.00		189	181	169	154	145	135	124	110	93	75
6WP 48-15	15	22.00	30.00		202	194	181	165	156	145	132	117	100	80
6WP 48-16	16	26.00	35.00		216	206	193	176	166	155	141	125	107	85
6WP 48-17	17	26.00	35.00		230	219	205	187	176	164	150	133	113	91
6WP 48-18	18	30.00	40.00		243	232	217	198	187	174	159	141	120	96
6WP 48-19	19	30.00	40.00		256	245	229	209	197	184	168	149	127	101
6WP 48-20	20	30.00	40.00		270	258	241	220	207	193	177	157	133	107
6WP 48-21	21	37.00	50.00		284	271	253	231	218	203	185	164	140	112
6WP 48-22	22	37.00	50.00		297	284	265	242	228	213	194	172	147	117
6WP 48-23	23	37.00	50.00		310	297	277	253	239	222	203	180	153	123
6WP 48-24	24	37.00	50.00		324	310	289	264	249	232	212	188	160	128
6WP 48-26	26	45.00	60.00		351	335	313	286	270	251	230	204	173	139
6WP 48-28	28	45.00	60.00		378	361	337	308	290	271	247	219	187	149
6WP 48-30	30	45.00	60.00		405	387	361	330	311	290	265	235	200	160
6WP 48-33	33	55.00	75.00		446	426	397	363	342	319	291	258	220	176
6WP 48-35	35	55.00	75.00		472	452	421	385	363	338	309	274	233	187
6WP 48-37	37	63.00	85.00		500	477	445	407	384	358	327	290	247	197

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (Incl. pkg.) Kg.
6WP 48-01	147	400	10	12
6WP 48-02	147	513	12	14
6WP 48-03	147	628	14	16
6WP 48-04	147	741	16	18
6WP 48-05	147	854	18	21
6WP 48-06	147	967	20	23
6WP 48-07	147	1080	22	25
6WP 48-08	147	1193	24	28
6WP 48-09	147	1306	26	30
6WP 48-10	147	1424	28	32
6WP 48-11	147	1537	30	35
6WP 48-12	147	1650	32	37
6WP 48-13	147	1763	34	39
6WP 48-14	147	1876	36	41
6WP 48-15	147	1989	38	44
6WP 48-16	147	2102	40	46
6WP 48-17	147	2215	42	48
6WP 48-18	147	2328	44	51
6WP 48-19	147	2441	46	53
6WP 48-20	147	2554	48	55
6WP 48-21	147	2667	50	58
6WP 48-22	147	2780	52	60
6WP 48-23	147	2893	54	62
6WP 48-24	147	3006	56	64
6WP 48-26	147	3232	60	69
6WP 48-28	147	3458	64	74
6WP 48-30	147	3684	68	78
6WP 48-33	147	4023	74	85

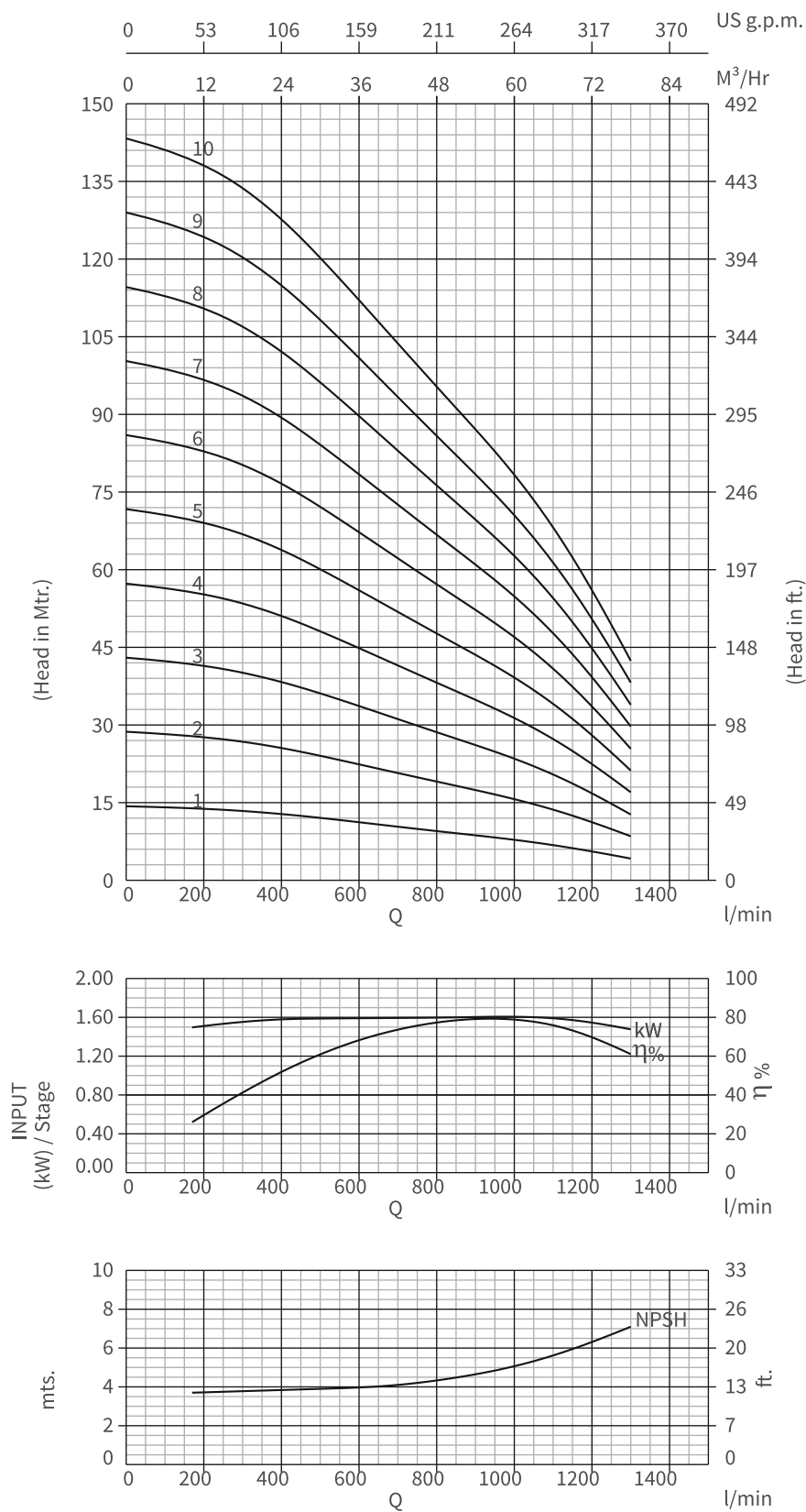
* G : Available Outlet Size 3" BSP & 4" BSP

* D : With Cable Guard

6WP 48-01 to 6WP 48-05 Pumps are Also Available in 4" Joining.

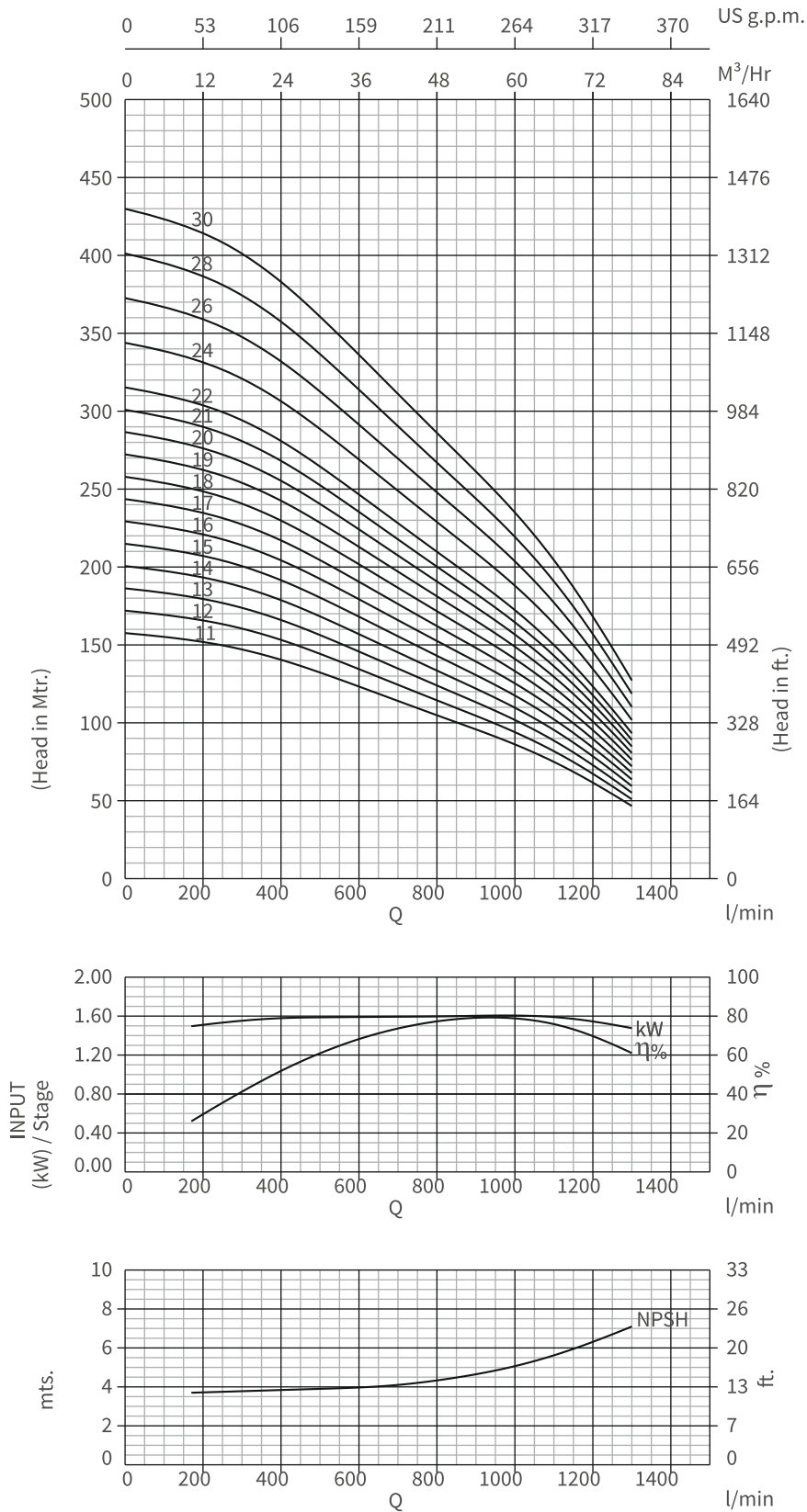
6WP 48-26, 6WP 48 - 28, 6WP 48 - 30, 6WP 48 - 33, 6WP 48 - 35 & 6WP 48 - 37 Pumps are also available with & without mounted sleeve in 8" joining.

PERFORMANCE CURVES



6WP 62, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES

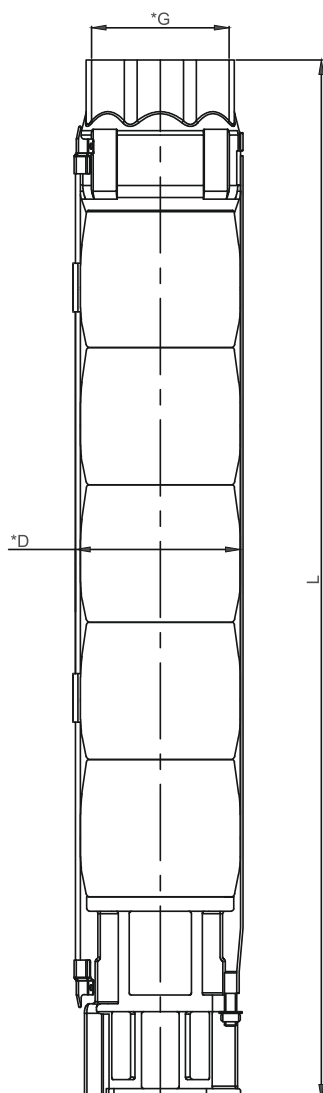


PERFORMANCE CHART

MODEL NAME		RATING			DISCHARGE								
THREE PHASE	STAGE	kW	HP	l/min	0	170	335	500	670	835	1000	1167	1300
				m ³ /h	0	10.2	20.1	30.1	40.2	50.1	60.0	70.0	78.0

6WP 62-01	1	2.20	3.00	HEAD IN Mtrs.	14.5	14	13	12	11	9	8	6	4
6WP 62-02	2	4.00	5.50		29	28	27	24	21	18	16	12	8
6WP 62-03	3	5.50	7.50		43	42	40	36	32	28	24	18	13
6WP 62-04	4	7.50	10.00		57	56	53	48	42	37	32	25	17
6WP 62-05	5	9.30	12.50		72	70	66	60	53	46	40	31	21
6WP 62-06	6	11.00	15.00		86	84	80	72	64	55	47	37	25
6WP 62-07	7	13.00	17.50		100	98	93	84	74	65	55	43	30
6WP 62-08	8	15.00	20.00		115	112	106	96	85	74	63	49	34
6WP 62-09	9	18.50	25.00		129	126	120	108	96	83	71	55	38
6WP 62-10	10	18.50	25.00		143	140	133	120	106	92	79	61	42
6WP 62-11	11	22.00	30.00		158	154	146	133	117	102	87	68	47
6WP 62-12	12	22.00	30.00		172	168	159	145	127	111	95	74	51
6WP 62-13	13	26.00	35.00		186	182	173	157	138	120	103	80	55
6WP 62-14	14	26.00	35.00		201	196	186	169	149	129	111	86	59
6WP 62-15	15	26.00	35.00		215	210	199	181	159	139	118	92	64
6WP 62-16	16	30.00	40.00		229	224	212	193	170	148	126	98	68
6WP 62-17	17	30.00	40.00		244	238	226	205	181	157	134	104	72
6WP 62-18	18	37.00	50.00		258	252	239	217	191	166	142	111	76
6WP 62-19	19	37.00	50.00		272	266	252	229	202	176	150	117	81
6WP 62-20	20	37.00	50.00		287	280	266	241	212	185	158	123	85
6WP 62-21	21	37.00	50.00		301	294	279	253	223	194	166	129	89
6WP 62-22	22	45.00	60.00		315	308	292	265	234	203	174	135	93
6WP 62-24	24	45.00	60.00		344	336	319	289	255	222	190	147	102
6WP 62-26	26	55.00	75.00		373	364	345	313	276	240	205	160	110
6WP 62-28	28	55.00	75.00		401	392	372	337	297	259	221	172	119
6WP 62-30	30	55.00	75.00		430	420	398	362	319	277	237	184	127

Dimensions & Weights



Model Name	Specification			
	*D (mm)	L (mm)	Pump Weight Kg.	Weight (Incl. pkg.) Kg.
6WP 62-01	147	400	10	12
6WP 62-02	147	513	12	14
6WP 62-03	147	628	14	16
6WP 62-04	147	741	16	18
6WP 62-05	147	854	18	21
6WP 62-06	147	967	20	23
6WP 62-07	147	1080	22	25
6WP 62-08	147	1193	24	28
6WP 62-09	147	1306	26	30
6WP 62-10	147	1424	28	32
6WP 62-11	147	1537	30	35
6WP 62-12	147	1650	32	37
6WP 62-13	147	1763	34	39
6WP 62-14	147	1876	36	41
6WP 62-15	147	1989	38	44
6WP 62-16	147	2102	40	46
6WP 62-17	147	2215	42	48
6WP 62-18	147	2328	44	51
6WP 62-19	147	2441	46	53
6WP 62-20	147	2554	48	55
6WP 62-21	147	2667	50	58
6WP 62-22	147	2780	52	60
6WP 62-24	147	3006	56	64

* G : Available Outlet Size 3" BSP & 4" BSP

* D : With Cable Guard

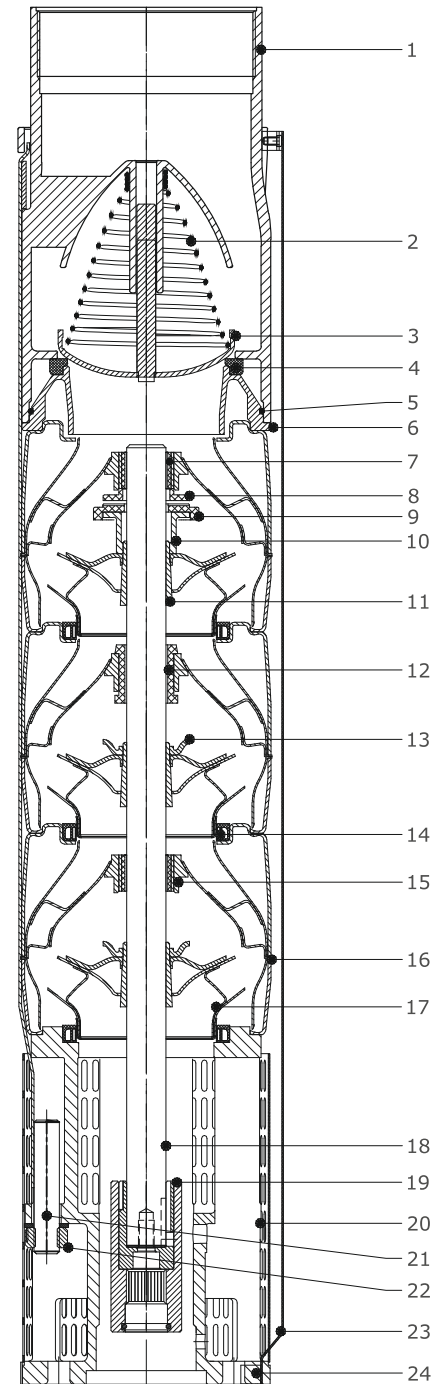
6WP 62-01 to 6WP 62 - 03 Pumps are Also Available in 4" Joining.

6WP 62 - 22, 6WP 62 - 24, 6WP 62 - 26, 6WP 62 - 28, 6WP 62 - 30
Pumps are also available with & without mounted sleeve in 8" joining.

8WP 80 & 8WP 98 SERIES PUMP DESIGN

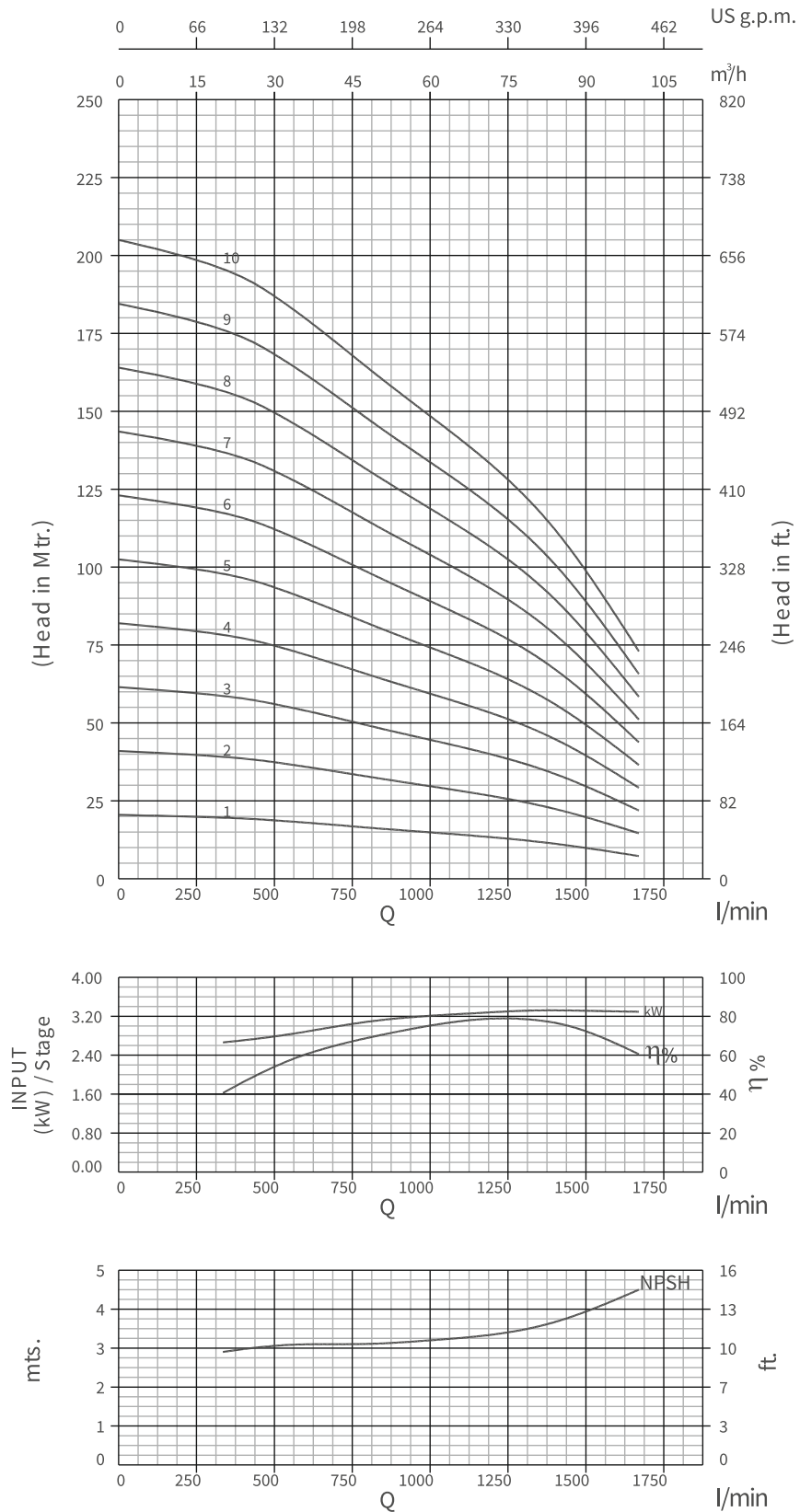
Material Specification

No	PART NAME	MATERIAL
1	DISCHARGE CHAMBER HOUSING	STEEL CAST 304
2	SPRING	S.S.302
3	VALVE	S.S.304
4	VALVE SEAT	N.B.R.
5	"O" RING	N.B.R.
6	VALVE SEAT HOUSING	STEEL CAST 304
7	FIRST STAGE BEARING BUSH	N.B.R. + S.S.304
8	STOP RING	S.S.304
9	SPACING WASHER	25% CFT
10	FIRST STAGE NUT	STEEL CAST 304
11	IMPELLER COLLET	S.S.304
12	BEARING BUSH STAGE	N.B.R.
13	COLLET NUT	S.S.304
14	NECKRING	N.B.R. + NYLON
15	IMC SLEEVE	S.S.304
16	INTERMEDIATE CHAMBER	S.S.304
17	IMPELLER	S.S.304
18	PUMP SHAFT (UP TO 04 STAGES)	S.S.431
	PUMP SHAFT (05 STAGE & ABOVE)	S.S.1.4362
19	NEMA COUPLING	S.S.304
20	STRAINER	S.S.304
21	CLAMPING STRIP	S.S.304
22	HEX NUT	S.S.316
23	CABLE GUARD	S.S.304
24	SUCTION	STEEL CAST 304

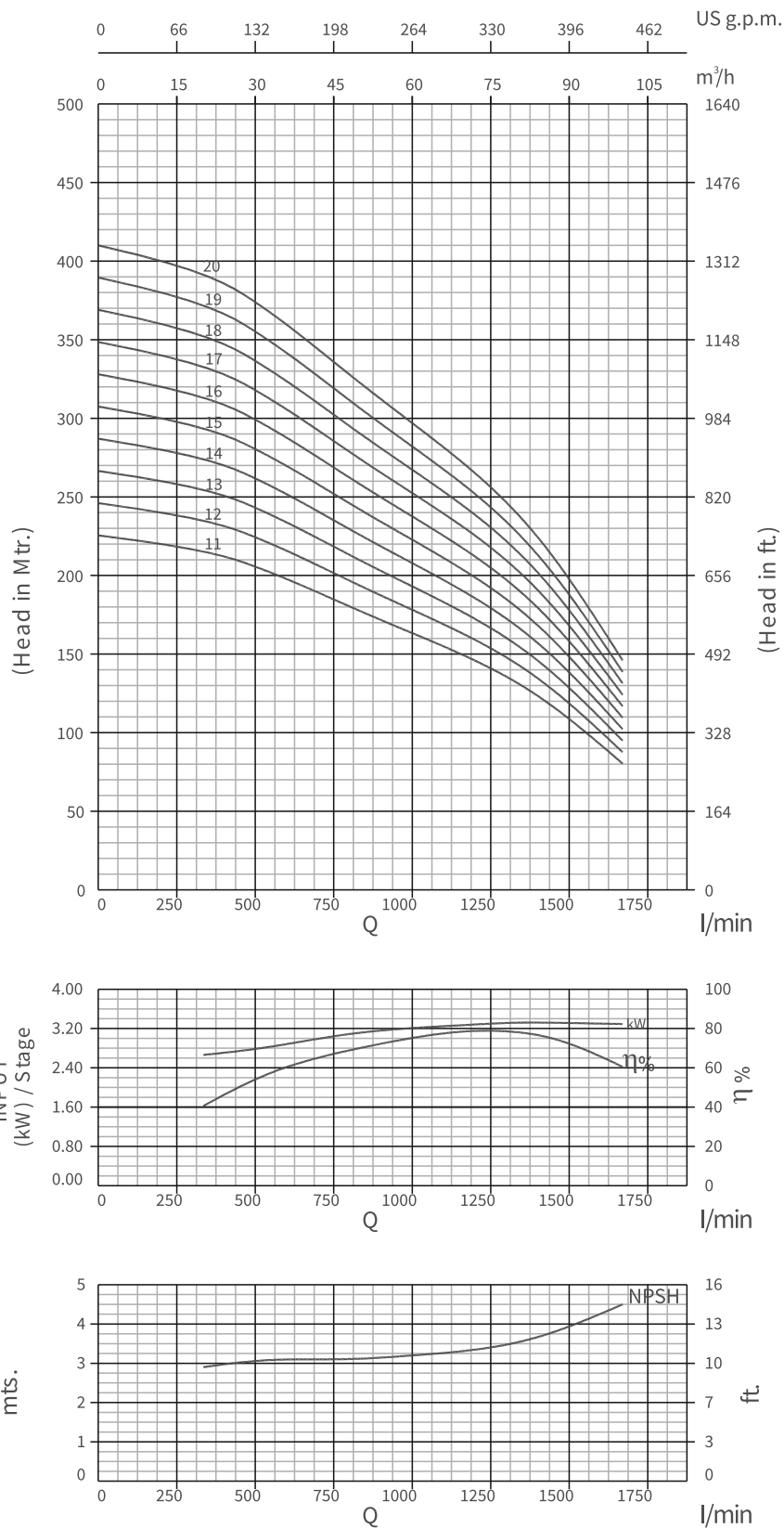


8WP 80, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



PERFORMANCE CURVES



8WP 80, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART

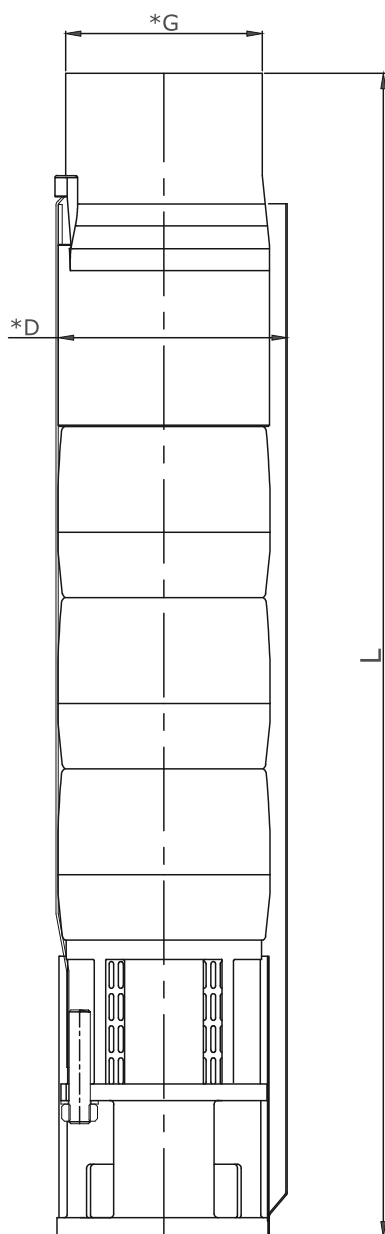
Model Name		Rating			Discharge									
Three Phase	Stage	kW	HP	l/min m ³ /h	0	335	500	670	835	1000	1170	1335	1500	1670
					0	20.0	30.0	40.2	50.1	60.0	70.2	80.1	90.0	100.0

8WP 80-01	1	5.50	7.50	HEAD IN Mts.	20.5	20	19	17	16	15	14	12	10	7
8WP 80-02	2	7.50	10.00		41	40	38	35	32	30	27	24	20	15
8WP 80-03	3	11.00	15.00		62	59	56	52	48	45	41	36	30	22
8WP 80-04	4	15.00	20.00		82	79	75	70	64	59	54	48	40	29
8WP 80-05	5	18.50	25.00		102	99	94	87	80	74	68	60	50	36
8WP 80-06	6	22.00	30.00		123	118	112	105	97	89	81	72	60	44
8WP 80-07	7	26.00	35.00		144	138	131	122	113	104	95	84	70	51
8WP 80-08	8	30.00	40.00		164	158	150	140	129	119	108	96	80	58
8WP 80-09	9	30.00	40.00		184	178	169	157	145	134	122	108	90	66
8WP 80-10	10	37.00	50.00		205	198	188	174	161	148	136	120	100	73
8WP 80-11	11	37.00	50.00		226	217	206	192	177	163	149	133	110	80
8WP 80-12	12	45.00	60.00		246	237	225	209	193	178	163	145	120	88
8WP 80-13	13	55.00	75.00		266	257	244	227	209	193	176	157	130	95
8WP 80-14	14	55.00	75.00		287	276	262	244	225	208	190	169	140	102
8WP 80-15	15	55.00	75.00		308	296	281	262	242	223	203	181	150	110
8WP 80-16	16	63.00	85.00		328	316	300	279	258	238	217	193	160	117
8WP 80-17	17	63.00	85.00		348	336	319	297	274	252	230	205	170	124
8WP 80-18	18	63.00	85.00		369	356	338	314	290	267	244	217	180	131
8WP 80-19	19	75.00	100.0		390	375	356	332	306	282	257	229	190	139
8WP 80-20	20	75.00	100.0		410	395	375	349	322	297	271	241	200	146

8WP 80, 50Hz

ISO 9906 Annexure A

Dimensions & Weights



Model Name	Specification				
	D* (mm)	D** (mm)	L (mm)	Pump Weight (in Kg.)	Weight (Incl. pkg.) Kg.
8WP 80-01	175	180	620	21	23
8WP 80-02	175	180	748	25	28
8WP 80-03	175	180	876	29	32
8WP 80-04	175	180	1004	33	36
8WP 80-05	175	180	1132	37	41
8WP 80-06	175	180	1260	41	45
8WP 80-07	175	180	1388	45	50
8WP 80-08	175	180	1516	49	54
8WP 80-09	175	180	1644	53	58
8WP 80-10	175	180	1772	55	63
8WP 80-11	175	180	1900	59	67
8WP 80-12	196	200	2028	63	72
8WP 80-13	196	200	2156	67	76
8WP 80-14	196	200	2284	71	80
8WP 80-15	196	200	2412	75	85
8WP 80-16	196	200	2540	79	89
8WP 80-17	196	200	2668	83	87
8WP 80-18	196	200	2796	87	94
8WP 80-19	196	200	2924	91	98
8WP 80-20	196	200	3052	95	102

* G : Available Outlet Size 5" BSP

* D : Maximum Diameter with single cable guard

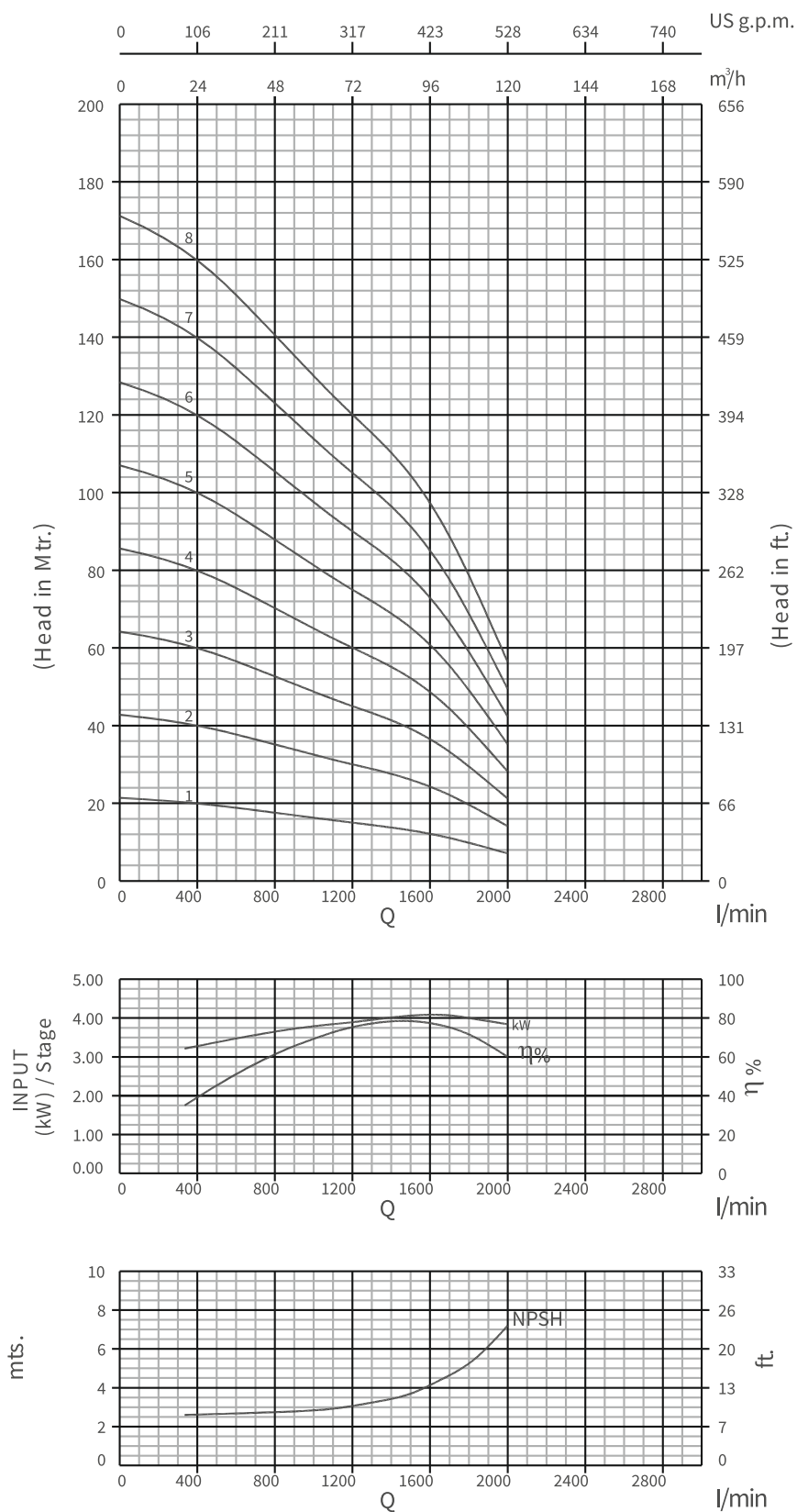
** D : Maximum Diameter With Double Cable Guard
up to 50 HP 6" Motor Joining.

8WP 80 - 01, to 8WP 80 - 11 Pump are Available in 6" Joining.

8WP 80 - 12, to 8WP 80 - 20 Pump are Available in 8" Joining.

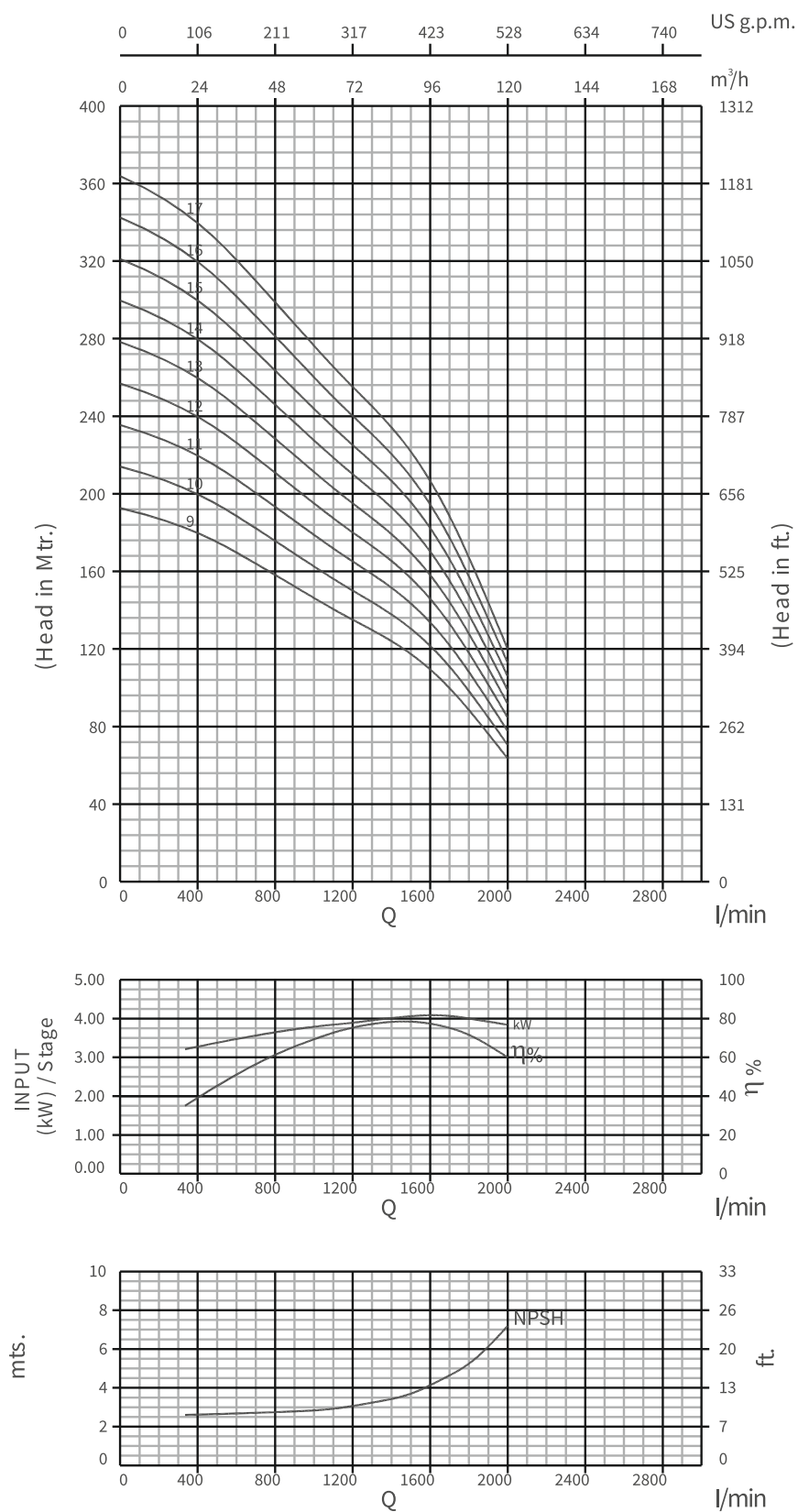
8WP 98, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



8WP 98, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



8WP 98, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART

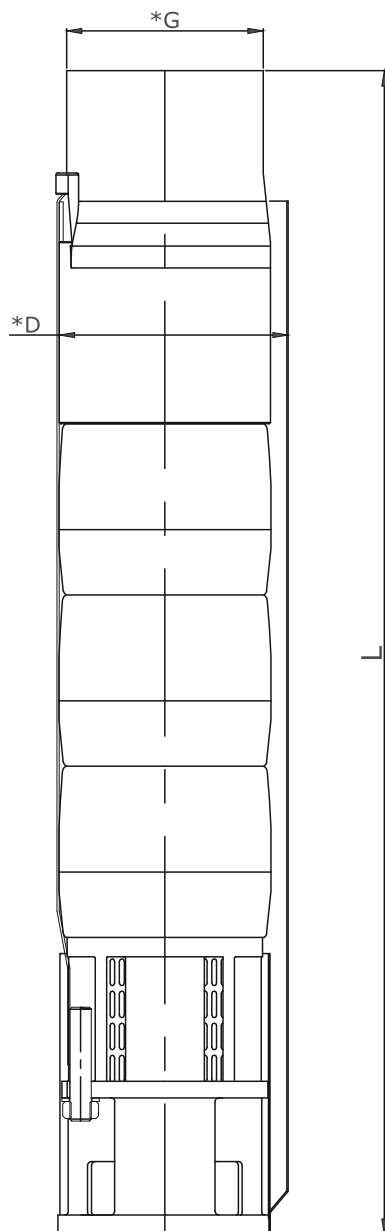
Model Name		Rating			Discharge									
Three Phase	Stage	kW	HP	l/min	0	335	675	1010	1170	1335	1500	1670	1835	2000
				m ³ /h	0	20.0	40.5	60.6	70.2	80.1	90.0	100.2	110.1	120.0

8WP 98-01	1	5.50	7.50	HEAD IN Mtrs.	21.5	21	18	16	15	14	13	12	9	7
8WP 98-02	2	9.30	12.50		43	41	37	32	30	28	26	23	19	14
8WP 98-03	3	13.00	17.50		64	62	55	49	46	43	39	35	28	21
8WP 98-04	4	18.50	25.00		86	82	74	65	61	57	52	46	38	28
8WP 98-05	5	22.00	30.00		107	103	92	81	76	71	66	58	47	35
8WP 98-06	6	26.00	35.00		128	123	110	97	91	85	79	69	56	42
8WP 98-07	7	30.00	40.00		150	144	129	113	106	100	92	81	66	49
8WP 98-08	8	37.00	50.00		171	164	147	129	121	114	105	92	75	56
8WP 98-09	9	37.00	50.00		193	185	166	146	137	128	118	104	85	63
8WP 98-10	10	45.00	60.00		214	205	184	162	152	142	131	115	94	70
8WP 98-11	11	55.00	75.00		235	226	203	178	167	157	144	127	104	78
8WP 98-12	12	55.00	75.00		257	246	221	194	182	171	157	138	113	85
8WP 98-13	13	55.00	75.00		278	267	239	210	197	185	171	150	122	92
8WP 98-14	14	63.00	85.00		300	287	258	227	212	199	184	161	132	99
8WP 98-15	15	75.00	100.0		321	308	276	243	228	213	197	173	141	106
8WP 98-16	16	75.00	100.0		342	328	295	259	243	228	210	184	151	113
8WP 98-17	17	75.00	100.0		364	349	313	275	258	242	223	196	160	120

8WP 98, 50Hz

ISO 9906 Annexure A

Dimensions & Weights



Model Name	Specification				Weight (Incl. pkg.) Kg.
	D* (mm)	D** (mm)	L (mm)	Pump Weight (in Kg.)	
8WP 98-01	175	180	620	21	23
8WP 98-02	175	180	748	25	28
8WP 98-03	175	180	876	29	32
8WP 98-04	175	180	1004	33	36
8WP 98-05	175	180	1132	37	41
8WP 98-06	175	180	1260	41	45
8WP 98-07	175	180	1388	45	50
8WP 98-08	175	180	1516	49	54
8WP 98-09	175	180	1644	53	58
8WP 98-10	196	200	1772	55	63
8WP 98-11	196	200	1900	59	67
8WP 98-12	196	200	2028	63	72
8WP 98-13	196	200	2156	67	76
8WP 98-14	196	200	2284	71	80
8WP 98-15	196	200	2412	75	85
8WP 98-16	196	200	2540	79	89
8WP 98-17	196	200	2668	83	87

* G : Available Outlet Size 5" BSP

* D : Maximum Diameter with single cable guard

** D : Maximum Diameter With Double Cable Guard
up to 50 HP 6" Motor Joining.

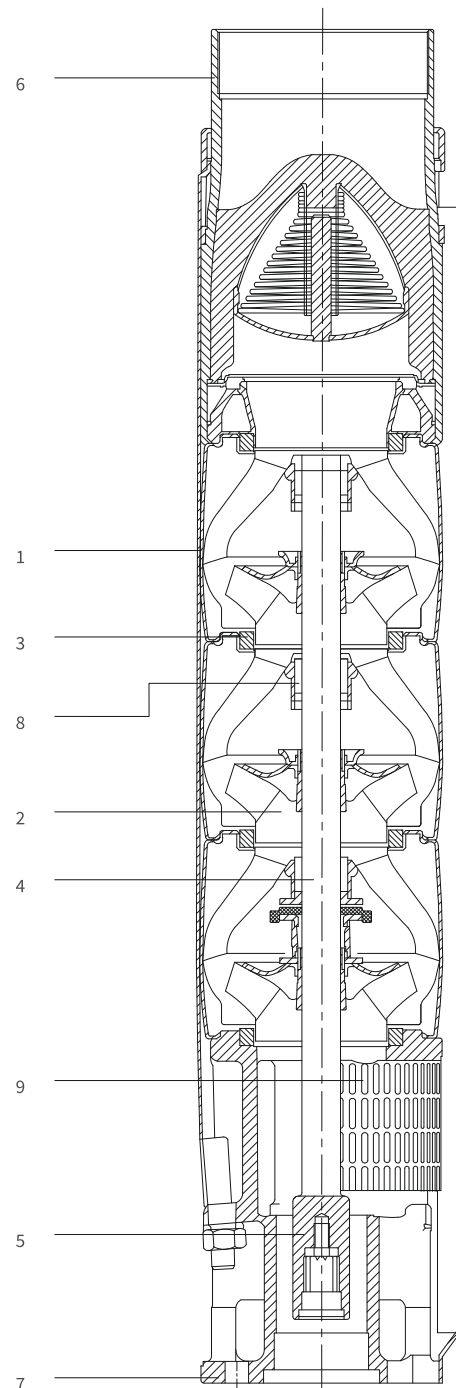
8WP 98 - 01, to 8WP 98 - 09 Pump are Available in 6" Joining.

8WP 98 - 10, to 8WP 98 - 17 Pump are Available in 8" Joining.

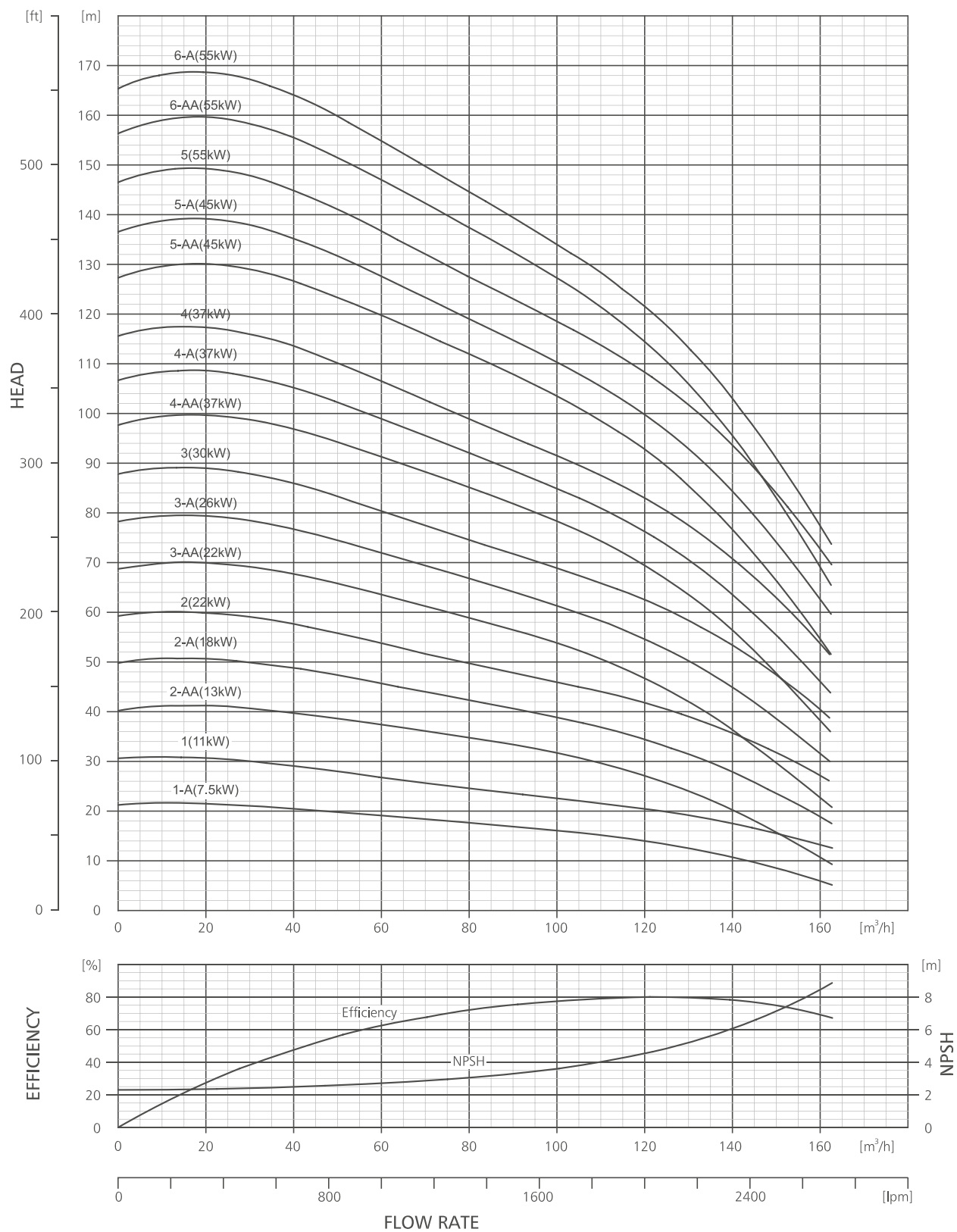
10WP 128 SERIES PUMP DESIGN

Material Specification

NO	PART NAME	MATERIAL	STANDARD
1	BOWL / DIFFUSER	STAINLESS STEEL	304
2	IMPELLER	STAINLESS STEEL	304
3	NECK RING	NBR	
4	SHAFT	STAINLESS STEEL	431
5	COUPLE	STAINLESS STEEL	316
6	DELIVERY CASING	STAINLESS STEEL	304
7	SUCTION CASE	STAINLESS STEEL	304
8	BEARING BUSH	NBR	
9	STRAINER	STAINLESS STEEL	304

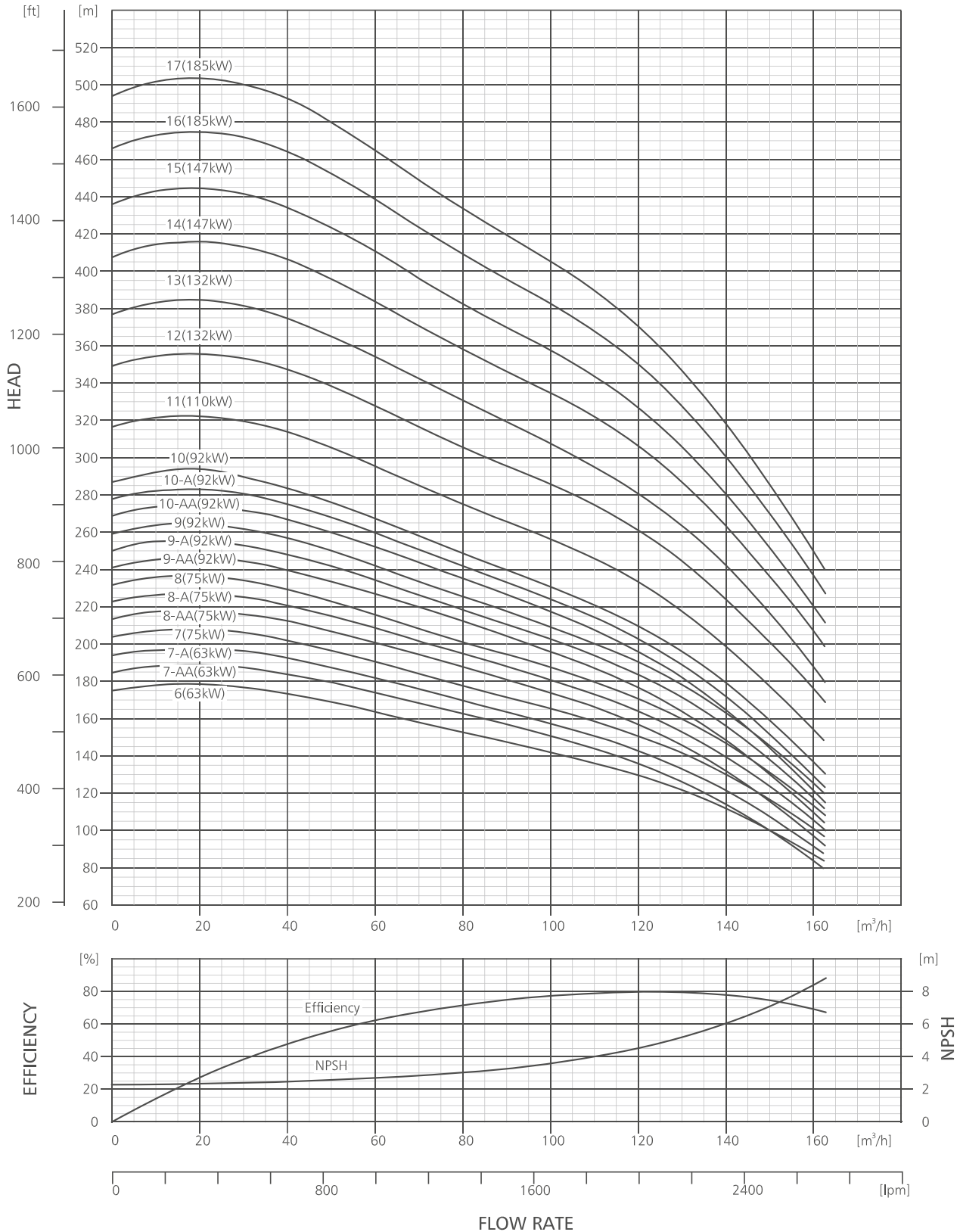


PERFORMANCE CURVES



10WP 128, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



10WP 128, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART

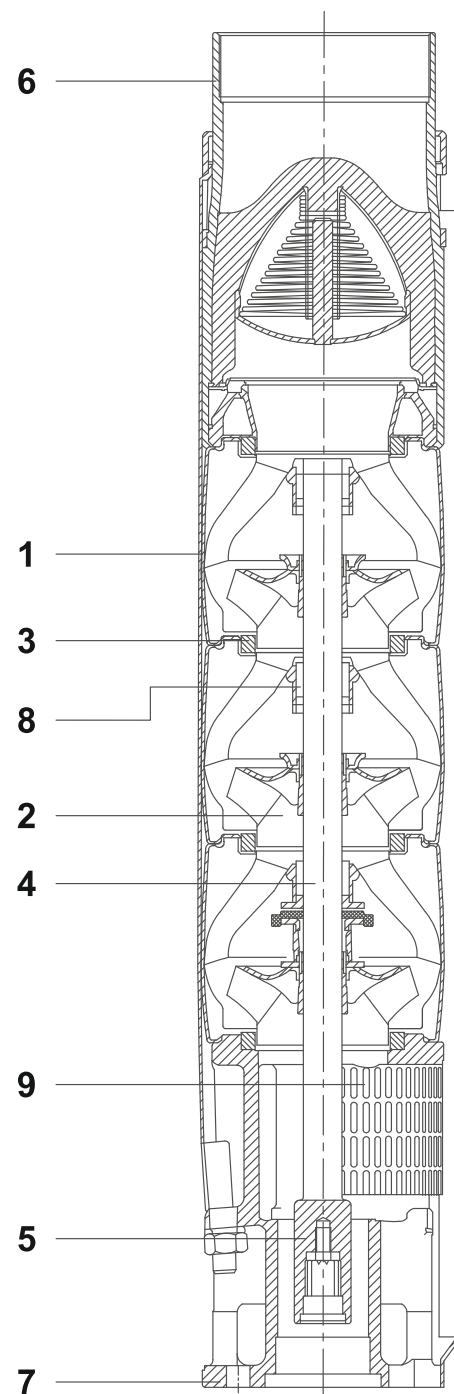
Model Name	Rating		Discharge													
Three Phase	kW	HP	l/min	0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2700
			m ³ /h	0	60	70	80	90	100	110	120	130	140	150	160	

10WP-128-1-A	7.5	10	HEAD IN Mtrs.	21	19	18	17	17	16	15	14	12	10	8	6	5
10WP-128-1	11	15		30	27	25	24	23	22	21	20	19	17	15	13	12
10WP-128-2-AA	13	17.5		40	37	36	35	33	31	29	27	24	20	16	11	10
10WP-128-2-A	18.5	25		50	45	44	42	40	39	37	34	31	28	23	19	18
10WP-128-2	22	30		59	54	52	50	48	46	44	42	39	35	32	27	26
10WP-128-3-AA	22	30		69	63	61	59	56	54	50	47	42	36	30	22	21
10WP-128-3-A	26	35		78	72	69	67	64	61	58	54	50	45	38	31	30
10WP-128-3	30	40		88	80	77	74	72	69	66	62	58	53	47	40	39
10WP-128-4-AA	37	50		98	91	88	85	82	78	74	69	63	56	48	38	36
10WP-128-4-A	37	50		107	99	95	92	88	85	81	76	70	63	55	46	44
10WP-128-4	37	50		116	106	102	99	95	91	87	83	77	71	63	54	52
10WP-128-5-AA	45	60		127	120	116	112	108	103	98	93	85	77	66	54	52
10WP-128-5-A	45	60		136	127	123	119	115	110	105	100	93	84	74	63	60
10WP-128-5	55	75		146	137	132	127	123	118	114	108	102	93	84	72	70
10WP-128-6-AA	55	75		156	147	142	137	132	127	121	114	106	95	83	69	66
10WP-128-6-A	55	75		165	155	150	144	139	134	128	121	113	103	91	77	74
10WP-128-6	63	85		175	164	158	153	147	142	136	130	122	112	100	87	84
10WP-128-7-AA	63	85		185	174	168	163	157	151	144	136	126	114	100	83	80
10WP-128-7-A	63	85		194	182	176	170	164	158	151	143	133	122	107	92	88
10WP-128-7	75	100		204	191	184	178	172	165	159	151	142	130	117	101	97
10WP-128-8-AA	75	100		214	201	194	188	181	174	166	157	146	132	116	97	93
10WP-128-8-A	75	100		223	209	202	195	188	181	173	164	153	139	123	105	101
10WP-128-8	75	100		232	216	209	202	195	188	180	171	160	147	131	113	109
10WP-128-9-AA	93	125		241	227	219	212	204	196	187	177	164	149	130	110	105
10WP-128-9-A	93	125		250	234	226	219	211	203	194	184	171	156	138	117	113
10WP-128-9	93	125		260	242	234	226	218	209	201	191	178	163	146	125	121
10WP-128-10-AA	93	125		269	252	244	235	227	218	208	196	182	165	144	121	117
10WP-128-10-A	93	125		278	260	251	242	233	224	214	203	189	172	152	129	124
10WP-128-10	93	125		287	267	258	249	240	231	221	210	196	179	159	137	132

10WP 162 SERIES PUMP DESIGN

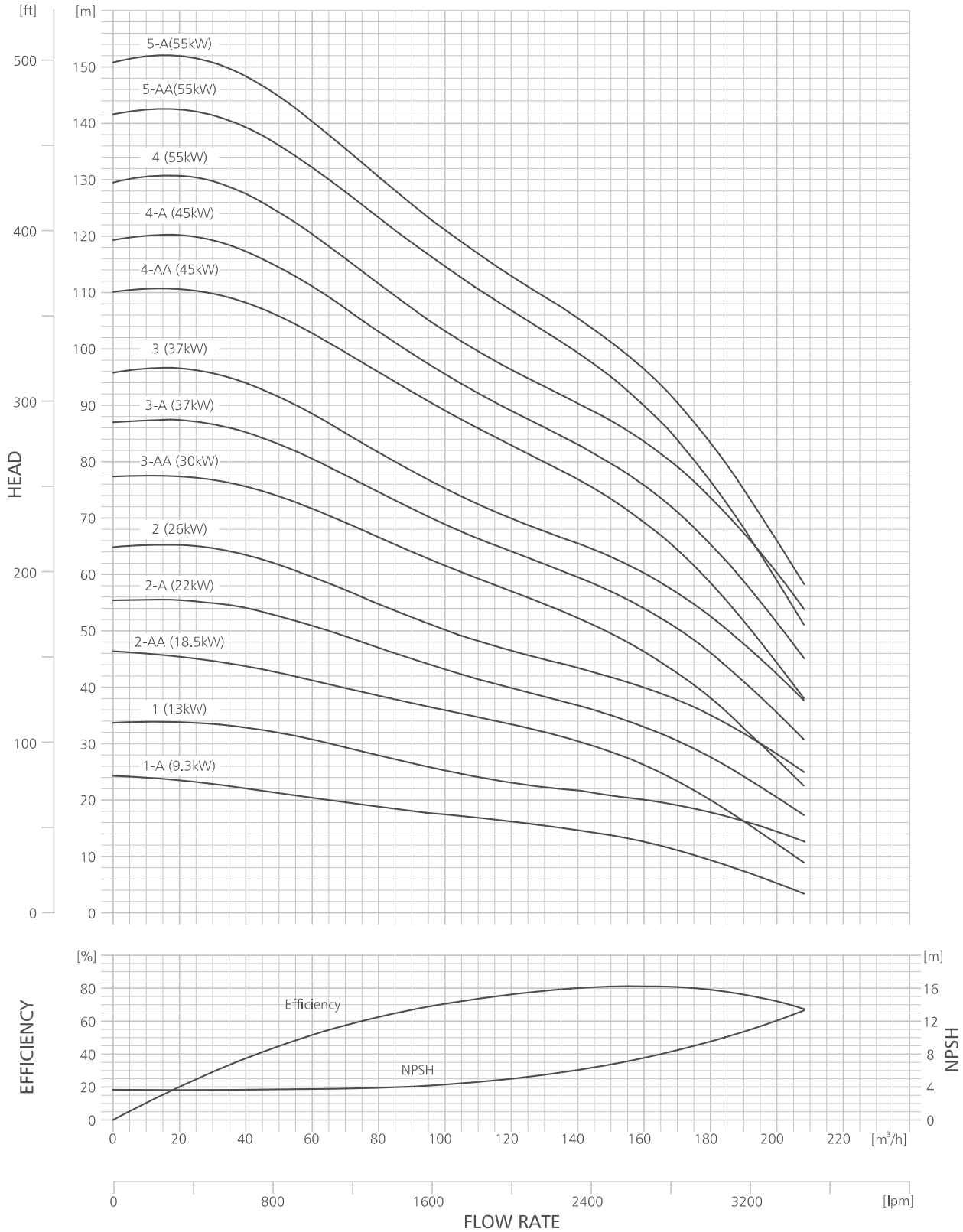
Material Specification

NO	PART NAME	MATERIAL	STANDARD
1	BOWL / DIFFUSER	STAINLESS STEEL	304
2	IMPELLER	STAINLESS STEEL	304
3	NECK RING	NBR	
4	SHAFT	STAINLESS STEEL	431
5	COUPLE	STAINLESS STEEL	316
6	DELIVERY CASING	STAINLESS STEEL	304
7	SUCTION CASE	STAINLESS STEEL	304
8	BEARING BUSH	NBR	
9	STRAINER	STAINLESS STEEL	304



10WP 162, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



10WP 162, 50Hz

ISO 9906 Annexure A

PERFORMANCE CHART

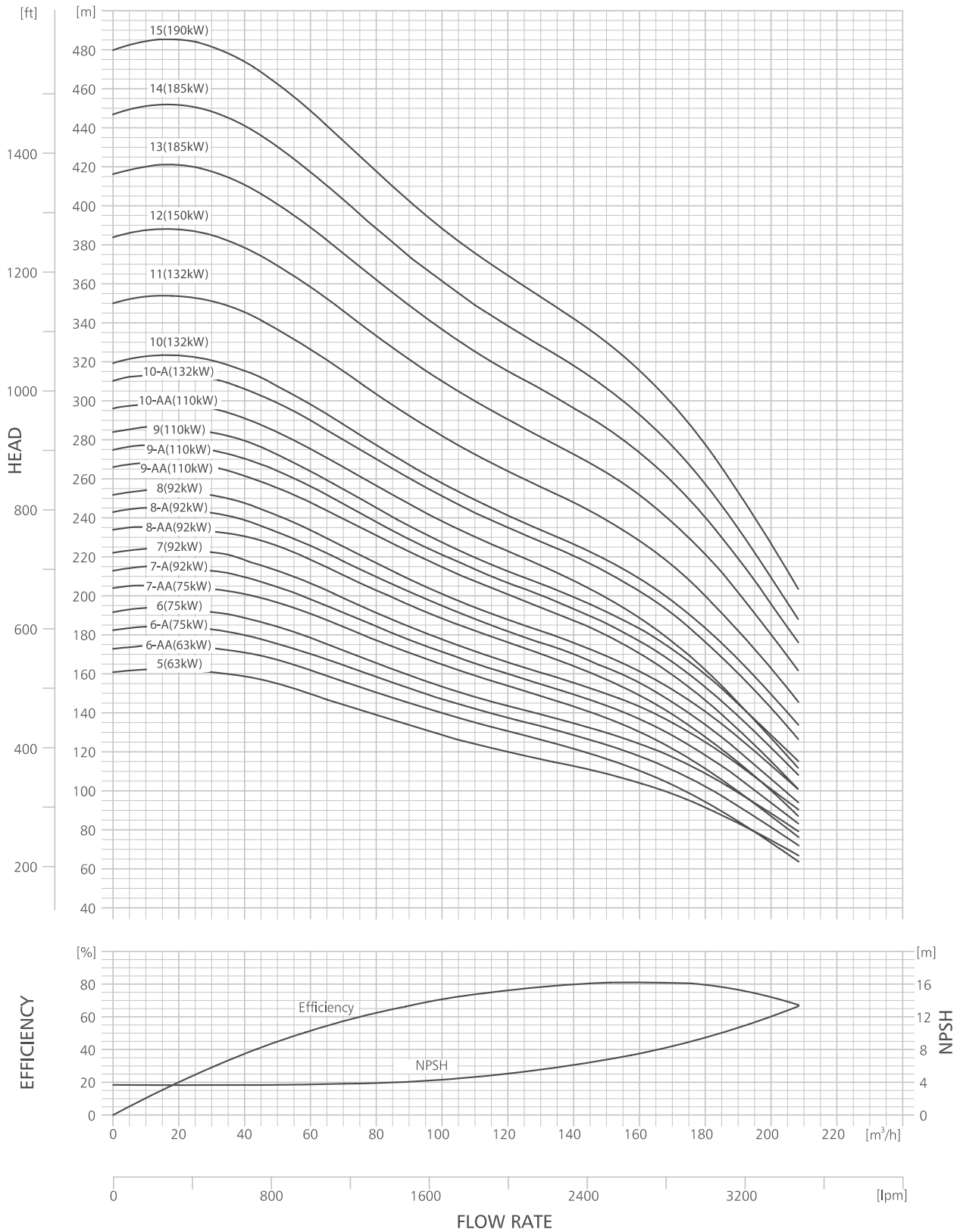
Model Name	Rating			Discharge															
Three Phase	kW	HP	l/min	0	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3167	3333	3467	
			m³/h	0	80	90	100	110	120	130	140	150	160	170	180	190	200	208	

10WP-162-1-A	9.3	12.50	HEAD IN Mtrs.	24	19	18	17	17	16	15	15	14	13	11	9	7	5	3
10WP-162-1	13.00	17.50		34	28	26	25	24	23	22	22	21	20	19	18	16	14	13
10WP-162-2-AA	18.50	25.00		46	38	37	36	35	33	32	30	29	26	23	20	16	12	9
10WP-162-2-A	22.00	30.00		55	47	45	43	41	40	38	37	35	33	31	28	24	20	17
10WP-162-2	26.00	35.00		65	55	52	50	48	46	45	43	42	40	38	35	32	28	25
10WP-162-3-AA	30.00	40.00		77	67	64	62	59	57	55	52	49	46	42	38	33	27	23
10WP-162-3-A	37.00	50.00		87	75	72	69	66	64	62	59	57	54	50	46	41	35	31
10WP-162-3	37.00	50.00		96	82	78	75	72	70	68	65	63	60	57	53	48	42	38
10WP-162-4-AA	45.00	60.00		110	96	92	89	86	83	80	77	73	69	64	58	52	44	38
10WP-162-4-A	45.00	60.00		119	103	99	95	92	89	86	83	80	76	71	65	59	51	45
10WP-162-4	55.00	75.00		129	111	107	103	100	96	93	90	87	83	79	74	67	60	54
10WP-162-5-AA	55.00	75.00		142	123	119	114	111	107	103	99	95	90	84	76	68	59	51
10WP-162-5-A	55.00	75.00		151	130	126	121	117	113	109	105	101	96	90	83	75	66	58

10WP 162, 50Hz

ISO 9906 Annexure A

PERFORMANCE CURVES



10RP 162, 50Hz

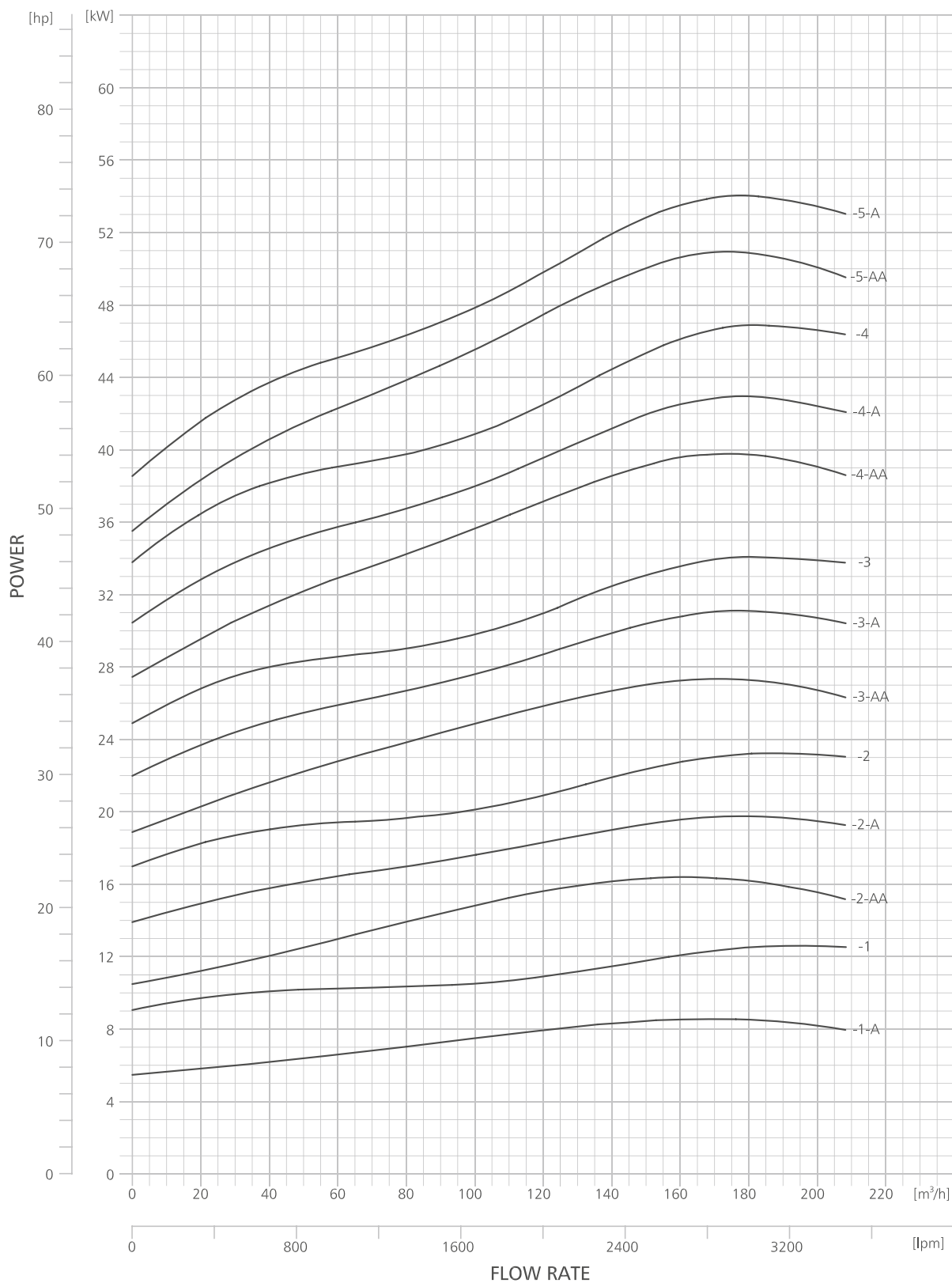
ISO 9906 Annexure A

PERFORMANCE CHART

Model Name	Rating			Discharge															
Three Phase	kW	HP	l/min	0	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3167	3333	3467	
			m³/h	0	80	90	100	110	120	130	140	150	160	170	180	190	200	208	

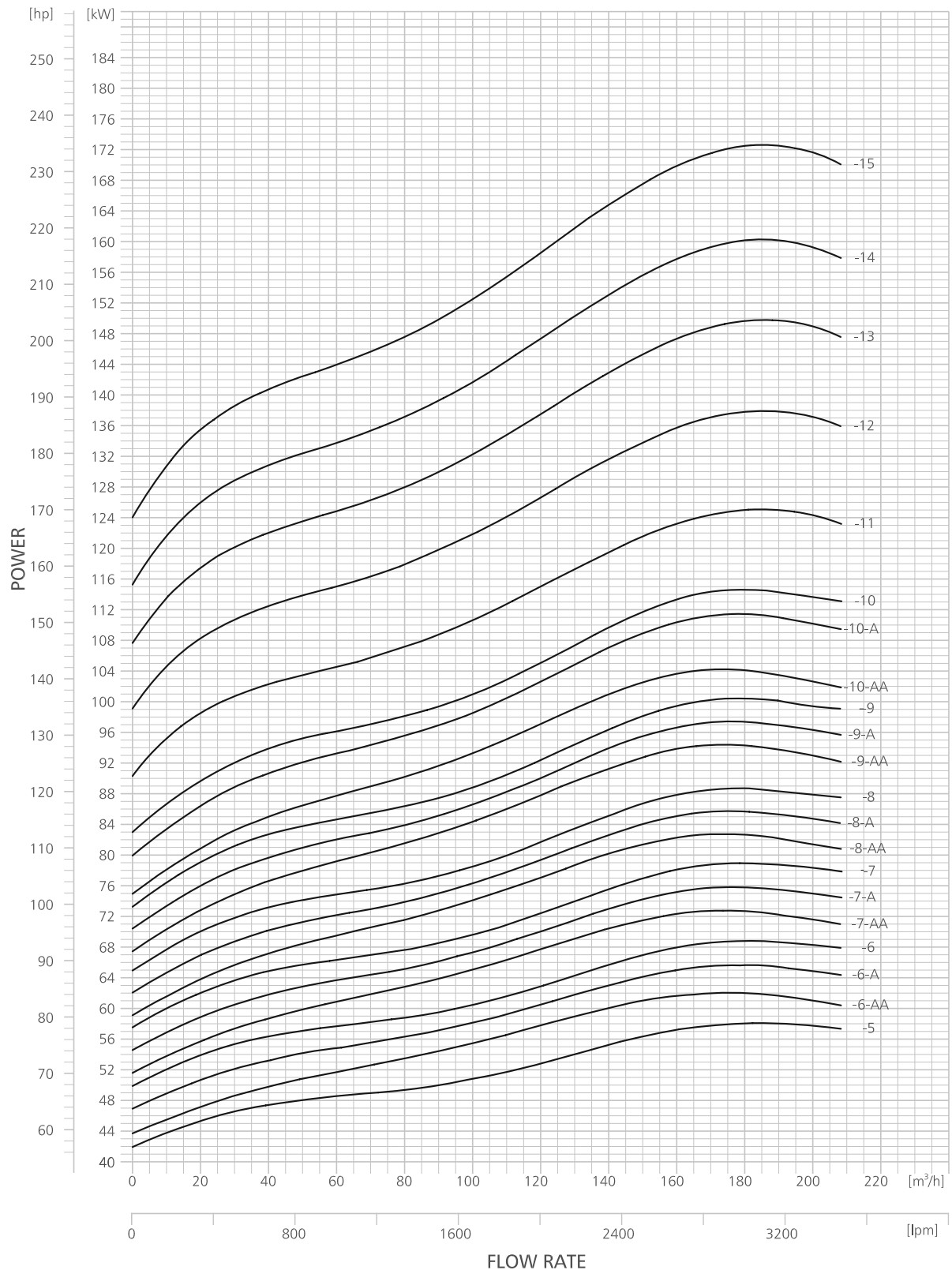
10RP-162-5	63.00	85.00	HEAD IN Mtrs:	161	139	133	129	124	120	116	113	109	104	98	91	83	74	67
10RP-162-6-AA	63.00	85.00		173	150	145	140	135	131	126	121	116	110	103	94	84	73	64
10RP-162-6-A	75.00	100.00		183	158	153	147	142	137	133	128	123	118	111	102	92	81	72
10RP-162-6	75.00	100.00		192	166	159	154	148	144	139	135	130	124	117	109	99	88	79
10RP-162-7-AA	75.00	100.00		204	177	171	165	159	154	149	143	137	130	122	112	100	87	76
10RP-162-7-A	92.00	125.00		213	184	177	171	165	160	155	149	144	137	128	118	107	94	84
10RP-162-7	92.00	125.00		222	191	184	177	171	166	161	155	150	143	135	125	113	101	91
10RP-162-8-AA	92.00	125.00		234	203	195	188	182	176	170	164	157	149	139	127	114	99	87
10RP-162-8-A	92.00	125.00		243	210	202	195	188	182	176	170	163	155	145	134	121	106	94
10RP-162-8	92.00	125.00		252	217	208	201	194	188	182	176	169	161	152	140	127	113	101
10RP-162-9-AA	110.00	150.00		266	231	223	215	207	201	194	187	179	170	159	146	131	115	102
10RP-162-9-A	110.00	150.00		275	238	229	221	214	207	200	193	186	177	166	153	138	122	109
10RP-162-9	110.00	150.00		284	245	236	227	220	213	206	199	192	183	172	160	145	129	116

PERFORMANCE CURVES



10RP 162, 50Hz
ISO 9906 Annexure A

PERFORMANCE CURVES



CONVERSION TABLES

Volume (Capacity)					
Cubic metre m ³	Litre L	Millilitre mL	Imperial gallon Imp. gal	Us gallon USgal	Cubic feet ft ³
1	1000	1 x 10 ⁶	219.9692	264.1721	35.3147
0.001	1	1000	0.2200	0.2642	0.0353
1 x 10 ⁻⁶	0.001	1	0.0002	0.0003	3.515 x 10 ⁻⁷
0.0045	4.5461	4546.09	1	1.2009	0.1605
0.0038	3.7854	3785.4118	0.8327	1	0.1337
0.0283	28.3168	28316.8488	6.2288	7.4805	1

Volume (Flow)							
Litre per second l/s	Liter per minute l/min	Cubic metre per hour m ³ /hr	Cubic feet per hour ft ³ /hr	Cubic feet per minute ft ³ /min	Imp. gallon per minute lgpm	US gallon per minute USgpm	US barrel per day US barrel/day
1	60	3.600	127.1328	2.1189	13.1982	15.8504	543.4390
0.0167	1	0.0600	2.1189	0.0353	0.2200	0.2642	9.0570
0.2778	16.6667	1	35.3147	0.5886	3.6662	4.4029	150.9550
0.0079	0.4719	0.0283	1	0.0167	0.1038	0.1247	4.2750
0.4719	28.3168	1.6990	60.0000	1	6.2288	7.4805	265.4750
0.0758	4.5461	0.2728	9.6326	0.1605	1	1.2010	41.1750
0.0631	3.7854	0.2271	8.0208	0.1337	0.8327	1	34.2860
0.0020	0.1100	0.0060	0.2400	0.0040	0.0240	0.0310	1

Liquid head and pressure								
Newton per square metre N/m ²	Kilo Pascal kPa	bar	Kilogram force per square centimetre kgf/cm ²	Pound force per square inch psi	Feet of water ft H ₂ O	Meters of water m H ₂ O	Millimeter of mercury mm Hg	Inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.010	0.0102	0.1450	0.3346	0.1020	7.5	0.2953
1 x 10 ⁵	100	1	1.0197	14.5038	33.4553	10.1973	750.0638	29.5300
98066.50	98.0665	0.9807	1	14.2233	32.8084	10	735.5613	28.9590
6894.76	6.8949	0.0689	0.0703	1	2.3067	0.7031	51.7151	2.0360
2989.07	2.9891	0.0299	0.0305	0.4335	1	0.3048	22.4199	0.8827
9806.55	9.8066	0.0981	0.1000	1.4223	3.2808	1	73.5554	2.8959
133.32	0.1333	0.0013	0.0014	0.0193	0.0446	0.0136	1	0.0394
3386.39	3.3864	0.0339	0.0345	0.4912	1.1329	0.3453	25.4001	1

CONVERSION TABLES

Power		
HP	W	kW
1 (SI)	746	0.746
1 (Metric)	736	0.736
1.34×10^{-3}	1 (SI)	0.001
1.36×10^{-3}	1 (Metric)	0.001
1.3405	1000	1 (SI)
1.3587	1000	1 (Metric)

Length					
Metre m	Feet ft	Yard yd	Centimetre cm	Millimeter mm	Inch in
1	3.2808	1.0936	100	1000	39.3701
0.3048	1	0.3333	30.48	304.8	12
0.9144	3	1	91.14	914.4	36
0.01	0.0328	0.0109	1	10	0.3937
0.001	0.0033	0.0011	0.1	1	0.0394
0.0254	0.0833	0.0278	2.54	25.4	1

Mass			
Kilogram kg	Pound lb	Hundred weight (long)	Tonne t
1	2.2046	0.0199	0.001
0.4536	1	0.009	0.0005
50.3592	111.02	1	0.0504
1000	2204.6226	19.8573	1

Temperature		
To convert from	To	Use formula
Temperature Celsius (C) - tC	Temperature Kelvin (K) - tK	$tK = tC + 273.15$
Temperature Fahrenheit (F) - tF	Temperature Kelvin (K) - tK	$tK = (tF + 459.67) / 1.8$
Temperature Celsius (C) - tC	Temperature Fahrenheit (F) - tF	$tF = 1.8tC + 32$
Temperature Fahrenheit (F) - tF	Temperature Celsius (C) - tC	$tC = (tF - 32) / 1.8$
Temperature Kelvin (K) - tK	Temperature Celsius (C) - tC	$tC = tK - 273.15$
Temperature Kelvin (K) - tK	Temperature Fahrenheit (F) - tF	$tF = 1.8tK - 459.67$

Head losses in ordinary water pipes

Quantity of water		Head losses in ordinary water pipes											
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
10	0.16	0.856	0.470	0.292									
		9.910	2.407	0.784									
15	0.25	1.282	0.705	0.438	0.249								
		20.11	4.862	1.570	0.416								
20	0.33	1.710	0.940	0.584	0.331	0.249							
		33.53	8.035	2.588	0.677	0.346							
25	0.42	2.138	1.174	0.730	0.415	0.312							
		49.93	11.91	3.834	1.004	0.510							
30	0.50	2.565	1.409	0.876	0.498	0.374	0.231						
		69.34	16.50	5.277	1.379	0.700	0.223						
35	0.58	2.993	1.644	1.022	0.581	0.436	0.269						
		91.54	21.75	6.949	1.811	0.914	0.291						
40	0.67		1.879	1.168	0.664	0.499	0.308						
			27.66	8.820	2.290	1.160	0.368						
50	0.83		2.349	1.460	0.830	0.623	0.385	0.229					
			41.40	13.14	3.403	1.719	0.544	0.159					
60	1.00		2.819	1.751	0.996	0.748	0.462	0.275					
			57.74	18.28	4.718	2.375	0.751	0.218					
70	1.12		3.288	2.043	1.162	0.873	0.539	0.321	0.231				
			76.49	24.18	6.231	3.132	0.988	0.287	0.131				
80	1.33			2.335	1.328	0.997	0.616	0.387	0.263				
				30.87	7.940	3.988	1.254	0.383	0.164				
90	1.50			2.827	1.494	1.122	0.693	0.413	0.289				
				38.30	9.828	4.927	1.551	0.449	0.203				
100	1.67			2.919	1.660	1.247	0.770	0.459	0.329	0.248			
				46.49	11.90	5.972	1.875	0.542	0.244	0.124			
125	2.08			3.649	2.075	1.558	0.962	0.574	0.412	0.310	0.241		
				70.41	17.93	8.967	2.802	0.809	0.365	0.185	0.101		
150	2.50				2.490	1.870	1.154	0.668	0.494	0.372	0.289		
					25.11	12.63	3.903	1.124	0.506	0.266	0.140		
175	2.92				2.904	2.182	1.347	0.803	0.576	0.434	0.337		
					33.32	16.66	5.179	1.488	0.670	0.338	0.184		
200	3.33				3.319	2.493	1.539	0.918	0.659	0.496	0.385	0.251	
					42.75	21.36	6.624	1.901	0.855	0.431	0.234	0.084	
250	4.17				4.149	3.117	1.924	1.147	0.823	0.620	0.481	0.314	
					64.86	32.32	10.03	2.880	1.282	0.646	0.350	0.126	
300	5.00					3.740	2.309	1.377	0.988	0.744	0.577	0.377	0.263
						45.52	14.04	4.009	1.792	0.903	0.488	0.175	0.074
400	6.67					4.987	3.078	1.836	1.317	0.992	0.770	0.502	0.351
						78.17	24.04	6.828	3.053	1.530	0.829	0.294	0.124
500	8.33						3.848	2.295	1.647	1.240	0.982	0.628	0.439
							36.71	10.40	4.622	2.315	1.254	0.445	0.187
600	10.0						4.618	2.753	1.976	1.488	1.155	0.753	0.526
							51.84	14.62	6.505	3.261	1.757	0.623	0.260
700	11.7							3.212	2.306	1.736	1.347	0.879	0.614
								19.52	8.693	4.356	2.345	0.831	0.347
800	13.3							3.671	2.635	1.984	1.540	1.005	0.702
								25.20	11.18	5.582	3.009	1.066	0.445
900	15.0							4.130	2.964	2.232	1.732	1.130	0.790
								31.51	13.97	6.983	3.762	1.328	0.555
1000	16.7							4.589	3.294	2.480	1.925	1.256	0.877
								38.43	17.06	8.521	4.595	1.616	0.674
1250	20.8								4.117	3.100	2.406	1.570	1.097
									26.10	13.00	7.010	2.458	1.027
1500	25.0								4.941	3.720	2.887	1.883	1.316
									36.97	18.42	9.892	3.468	1.444
1750	29.2									4.340	3.368	2.197	1.535
										24.76	13.30	4.665	1.934
2000	33.3									4.960	3.850	2.511	1.754
										31.94	17.16	5.995	2.496
2500	41.7										4.812	3.139	2.193
											26.26	9.216	3.807
3000	50.0											3.767	2.632
												13.05	5.417
4000	66.7											5.023	3.509
												22.72	8.926
5000	83.3												4.386
													14.42
90° bends, slide valves		1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	2.0	2.5
T-pieces, non-return valves		4.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	7.0	8.0	9.0

The upper figures indicate the velocity of water in m/sec.

The lower figures indicate head loss in metres per 100 metres of straight pipes.

The table is calculated in accordance with H. Lang's new formula $a=0.02$ and for a water temperature of 10 degree C. The head loss in bends, slide valves, T-pieces and non-return valves is equivalent to the metres of straight pipes states in the last two lines of the table.

To find the head loss in foot valves, multiply the loss in T-pieces by two.

Head losses in plastic pipes

Upper figures indicate the velocity of in m/sec. Lower figures indicate head loss in metres per 100 metres of straight pipes.

Quantity of water		PELM/PEH PN 10											
Litres/min.	Litres/sec.	PELM						PEH					
		25 20.4	32 26.2	40 32.6	50 40.8	63 51.4	75 61.4	90 73.6	110 90.0	125 102.2	140 114.6	160 130.8	180 147.2
10	0.16	0.49 1.8	0.30 0.66	0.19 0.27	0.12 0.085								
15	0.25	0.76 4.0	0.46 1.14	0.3 0.6	0.19 0.18	0.12 0.63							
20	0.33	1.0 6.4	0.61 2.2	0.39 0.9	0.25 0.28	0.16 0.11							
25	0.42	1.3 10.0	0.78 3.5	0.5 1.4	0.32 0.43	0.2 0.17	0.14 0.074						
30	0.50	1.53 13.0	0.93 4.6	0.6 1.9	0.38 0.57	0.24 0.22	0.17 0.092						
35	0.58	1.77 16.0	1.08 6.0	0.69 2.0	0.44 0.70	0.28 0.27	0.2 0.12						
40	0.67	2.05 22.0	1.24 7.5	0.80 3.3	0.51 0.93	0.32 0.35	0.23 0.16	0.16 0.063					
50	0.83	2.54 37.0	1.54 11.0	0.99 4.8	0.63 1.40	0.4 0.50	0.28 0.22	0.2 0.09					
60	1.00	3.06 43.0	1.85 15.0	1.2 6.5	0.76 1.90	0.48 0.70	0.34 0.32	0.24 0.13	0.16 0.050				
70	1.12	3.43 50.0	2.08 18.0	1.34 8.0	0.86 2.50	0.54 0.83	0.38 0.38	0.26 0.17	0.18 0.068				
80	1.33		2.47 25.0	1.59 10.5	1.02 3.00	0.64 1.20	0.45 0.50	0.31 0.22	0.2 0.084				
90	1.50		2.78 30.0	1.8 12.0	1.15 3.50	0.72 1.30	0.51 0.57	0.35 0.26	0.24 0.092	0.18 0.05			
100	1.67		3.1 39.0	2.0 16.0	1.28 4.6	0.8 1.80	0.56 0.73	0.39 0.30	0.26 0.12	0.2 0.07			
125	2.08		3.86 50.0	2.49 24.0	1.59 6.6	1.00 2.50	0.70 1.10	0.49 0.50	0.33 0.18	0.25 0.10	0.20 0.055		
150	2.50			3.00 33.0	1.91 8.6	1.20 3.5	0.84 1.40	0.59 0.63	0.39 0.24	0.30 0.13	0.24 0.075		
175	2.92			3.5 38.0	2.23 11.0	1.41 4.3	0.99 1.80	0.69 0.78	0.46 0.30	0.36 0.18	0.28 0.09		
200	3.33			3.99 50.0	2.55 14.0	1.60 5.5	1.12 2.40	0.78 1.0	0.52 0.40	0.41 0.22	0.32 0.12	0.25 0.065	
250	4.17				3.19 21.0	2.01 8.0	1.41 3.70	0.98 1.50	0.66 0.57	0.51 0.34	0.40 0.18	0.31 0.105	0.25 0.06
300	5.00				3.82 28.0	2.41 10.5	1.69 4.60	1.18 1.95	0.78 0.77	0.61 0.45	0.48 0.25	0.37 0.13	0.29 0.085
400	6.67					3.21 19.0	2.25 8.0	1.57 3.60	1.05 1.40	0.81 0.78	0.65 0.44	0.50 0.23	0.39 0.15
500	8.33					4.01 28.0	2.81 11.5	1.96 5.0	1.31 2.0	1.02 1.20	0.81 0.63	0.62 0.33	0.49 0.21
600	10.0					4.82 37.0	3.38 15.0	2.35 6.6	1.57 2.60	1.22 1.50	0.97 0.82	0.74 0.45	0.59 0.28
700	11.7					5.64 47.0	3.95 24.0	2.75 8.0	1.84 3.50	1.43 1.90	1.13 1.10	0.87 0.60	0.69 0.40
800	13.3						4.49 26.0	3.13 11.0	2.09 4.5	1.62 2.60	1.29 1.40	0.99 0.81	0.78 0.48
900	15.0						5.07 33.0	3.53 13.5	2.36 5.5	1.83 3.20	1.45 1.70	1.12 0.95	0.88 0.58
1000	16.7						5.64 40.0	3.93 16.0	2.63 6.7	2.04 3.90	1.62 2.2	1.24 1.2	0.96 0.75
1250	20.8							4.89 25.0	3.27 9.0	2.54 5.0	2.02 3.0	1.55 1.6	1.22 0.95
1500	25.0							5.88 33.0	3.93 13.0	3.05 8.0	2.42 4.1	1.86 2.3	1.47 1.40
1750	29.2							6.86 44.0	4.59 17.5	3.56 9.7	2.83 5.7	2.17 3.2	1.72 1.9
2000	33.3								5.23 23.0	4.06 13.0	3.23 7.0	2.48 4.0	1.96 2.4
2500	41.7								6.55 34.0	5.08 18.0	4.04 10.5	3.10 6.0	2.45 3.5
3000	50.0								7.86 45.0	6.1 27.0	4.85 14.0	3.72 7.5	2.94 4.4
4000	66.7									8.13 43.0	6.47 24.0	4.96 13.0	3.92 7.5
5000	83.3										8.08 33.0	6.2 18.0	4.89 11.0

The table is based on a nomogram.
Roughness: K = 0.01 mm.
Water temperature : t = 10 Degree C

NOTE

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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WATERIN

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