



**50 Hz**

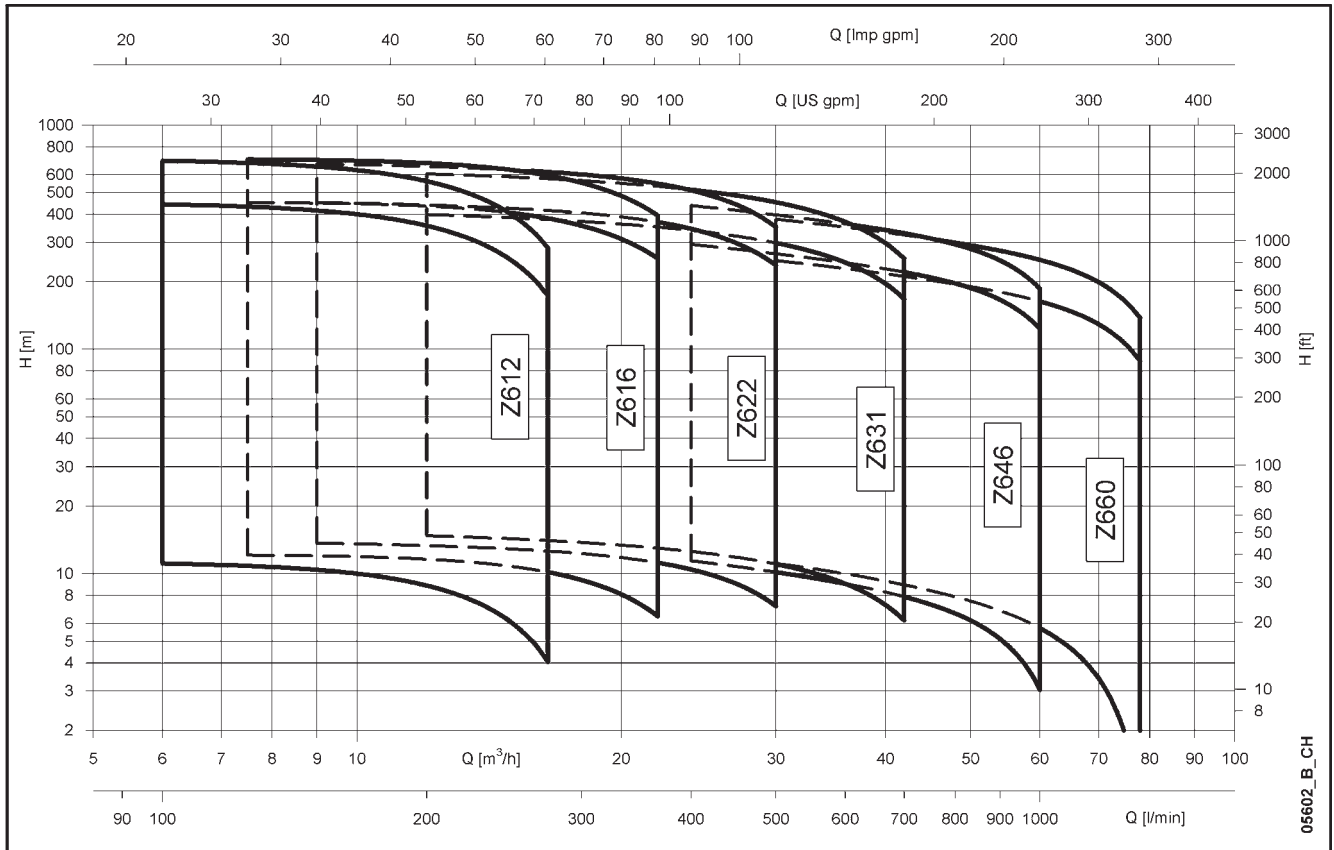


# Z612, Z616, Z622 Z631, Z646, Z660 Series

6" SUBMERSIBLE  
ELECTRIC PUMPS



**Z612, Z616, Z622, Z631, Z646, Z660 SERIES  
HYDRAULIC PERFORMANCE RANGE AT 50 Hz**



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## 6" Submersible Electric Pumps

### Z612, Z616 Z622, Z631 Z646, Z660 Series



#### MARKET SECTORS

CIVIL, AGRICULTURAL, INDUSTRIAL.

#### APPLICATIONS

- Water supply from deep wells.
- Pressure boosting and water distribution in civil and industrial systems.
- Supply of surge tanks and reservoirs.
- Firefighting and washing systems.
- Water table level control.
- Irrigation.
- Mines.
- Golf courses.

#### SPECIFICATIONS

##### PUMP

- **Delivery:** up to 78 m<sup>3</sup>/h.
- **Head:** up to 700 m.
- Maximum overall diameter of pump:
  - **Standard version:** 142 mm (one cable guard included).
  - **High head version:** 177 mm (one cable guard and 6" motor coupling included). 193 mm (one cable guard and 8" motor coupling included).
- Maximum pump immersion depth: 300 m (with L4C motor) 350 m (with L6W and L8W motors).
- Maximum permissible quantity of suspended sand: 100 g/m<sup>3</sup>.
- Standard delivery port:
  - **Standard version:** Rp 2 1/2" for Z612-Z616-Z622 versions. Rp 3" for Z631-Z646-Z660 versions.
  - **High head version:** Rp 3" for Z612-Z616-Z622-Z631 versions. Rp 4" for Z646-Z660 versions.
- All the pumps can operate in the horizontal position (see operating limits in the motors section).

##### MOTOR

- L4C, L6W and L8W three-phase asynchronous liquid-cooled motors (see operating limits in the motors section).

#### CONSTRUCTION CHARACTERISTICS

##### PUMP

- Sturdy and lightweight, easy maintenance and resistant to corrosion in non-aggressive environments.
- **Head and motor support made of precision-cast stainless steel.**

- **Delivery port** equipped with holes for safety hooks and including delivery pipe fastening screws.
- Stainless steel **integrated non-return valve**.
- **Stainless steel impellers and diffusers**.
- Stainless steel **impeller** with **removable wear ring**.
- **Tungsten carbide upper and intermediate bearing**.
- Technopolymer **shaft guide bearings** integrated in each stage.
- **Self-centring wear rings** of technopolymer integrated in each stage.
- **Stainless steel suction support**.
- **Stainless steel shaft protected by stainless steel shaft sleeves**.
- **Replaceable coupling**.
- **The following elements combined:**
  - tungsten carbide guide bearing.
  - technopolymer floating wear rings.
  - sleeved shaft.
- **guarantee maximum resistance to wear and ensure stable long-lasting hydraulic performances.**

#### OPTIONAL FEATURES

##### PUMP

- Different materials.
- Delivery ports with Rp 4" and 3" and 4" NPT.
- Versions for star/delta starting (SD).

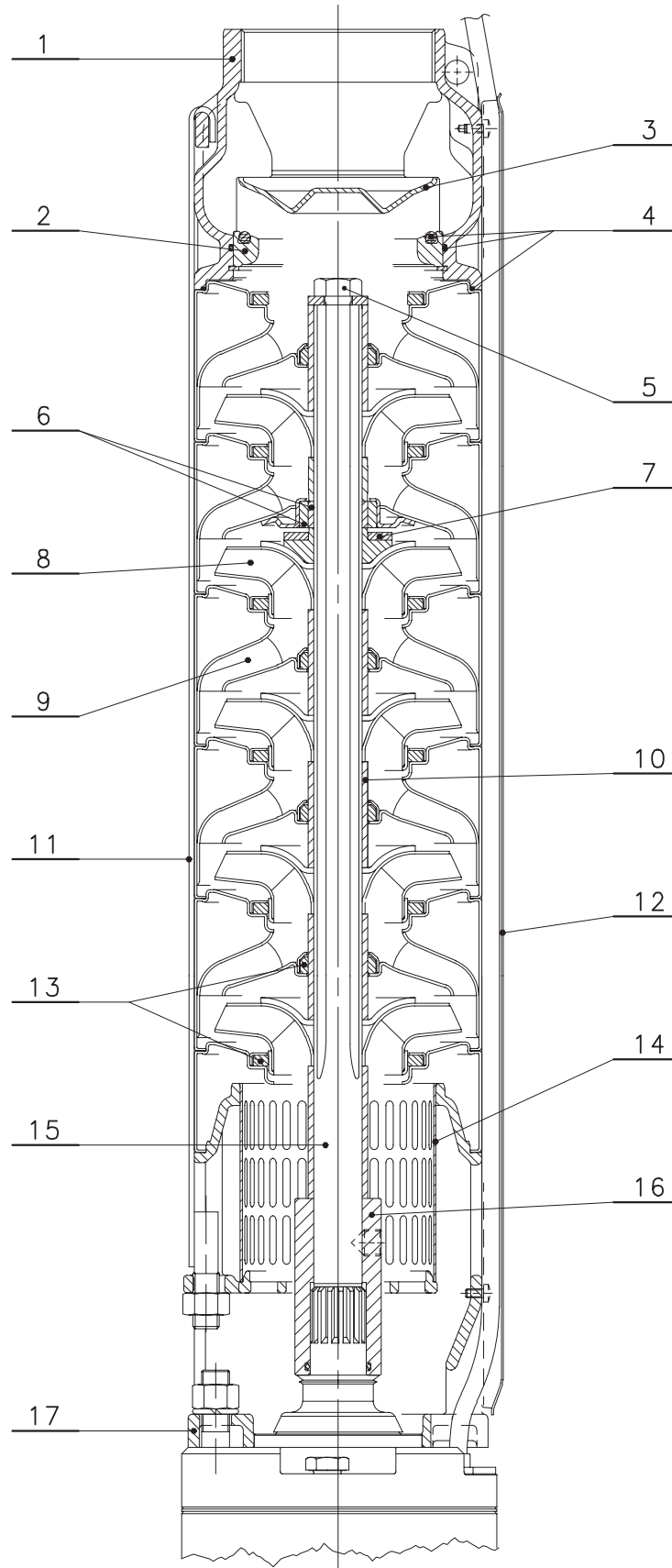
##### MOTOR

- Different voltages and frequencies.
- High temperature versions.

#### ACCESSORIES

- Coupling flange.
- Control panels.
- Drop cables.

## Z6 PUMPS SERIES PUMP SECTION AND LIST OF MAIN COMPONENTS



05612\_B\_DS

## TABLE OF MATERIALS Z6

REF. N°	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Discharge head	Stainless steel	EN 10213-4 - GX5CrNi19-10 (1.4308)	ASTM CF-8 (AISI 304 cast)
2	Valve support	Stainless steel	EN 10213-4 - GX5CrNi19-10 (1.4308)	ASTM CF-8 (AISI 304 cast)
3	Valve	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
4	Elastomers	EPDM		
5	Bolts and screws	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
6	Shaft sleeve and bushing	Tungsten carbide		
7	Thrust bearing	PTFE+Graphite		
8	Impeller	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
9	Diffuser	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
10	Spacer	Stainless steel	EN 10088-1 - X17CrNi16-2 (1.4057)	AISI 431
11	Tie rod	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
12	Cable guard	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
13	Wear rings	Technopolymer PPO		
14	Strainer	Stainless steel	EN 10088-1 - X5CrNi18-10 (1.4301)	AISI 304
15	Shaft	Stainless steel	EN 10088-1 - X17CrNi16-2 (1.4057)	AISI 431
16	Coupling	Stainless steel	EN 10088-1 - X17CrNi16-2 (1.4057)	AISI 431
17	Lower support	Stainless steel	EN 10213-4 - GX5CrNi19-10 (1.4308)	ASTM CF-8 (AISI 304 cast)

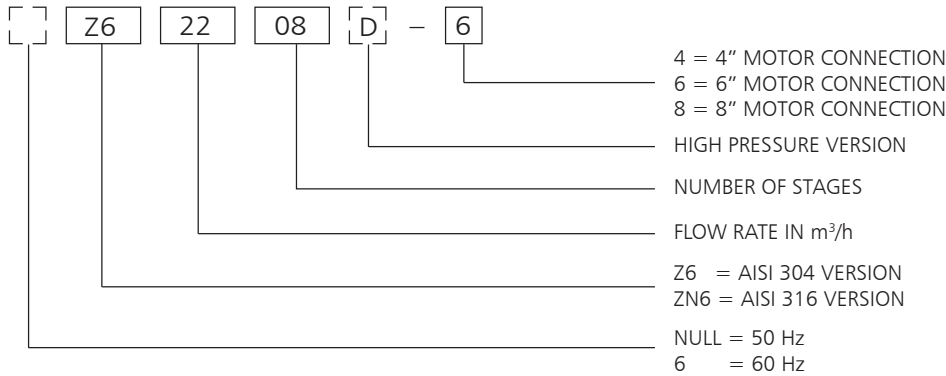
z6-50-304-en\_c\_tm

## TABLE OF MATERIALS ZN6

REF. N°	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Discharge head	Stainless steel	EN 10213-4 - GX5CrNiMo19-11-2 (1.4408)	ASTM CF-8M (AISI 316 cast)
2	Valve support	Stainless steel	EN 10213-4 - GX5CrNiMo19-11-2 (1.4408)	ASTM CF-8M (AISI 316 cast)
3	Valve	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Elastomers	EPDM		
5	Bolts and screws	Stainless steel	EN 10088-1 - X5CrNiMo17-12-2 (1.4401)	AISI 316
6	Shaft sleeve and bushing	Tungsten carbide		
7	Thrust bearing	PTFE+Graphite		
8	Impeller	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
9	Diffuser	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Spacer	Duplex stainless steel	EN 10088-1 - X2CrNiN23-4 (1.4362)	UNS S 32304
11	Tie rod	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
12	Cable guard	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
13	Wear rings	Technopolymer PPO		
14	Strainer	Stainless steel	EN 10088-1 - X2CrNiMo17-12-2 (1.4404)	AISI 316L
15	Shaft	Duplex stainless steel	EN 10088-1 - X2CrNiMoN22-5-3 (1.4462)	UNS S 31803
16	Coupling	Duplex stainless steel	EN 10088-1 - X2CrNiN23-4 (1.4362)	UNS S 32304
17	Lower support	Stainless steel	EN 10213-4 - GX5CrNiMo19-11-2 (1.4408)	ASTM CF-8M (AISI 316 cast)

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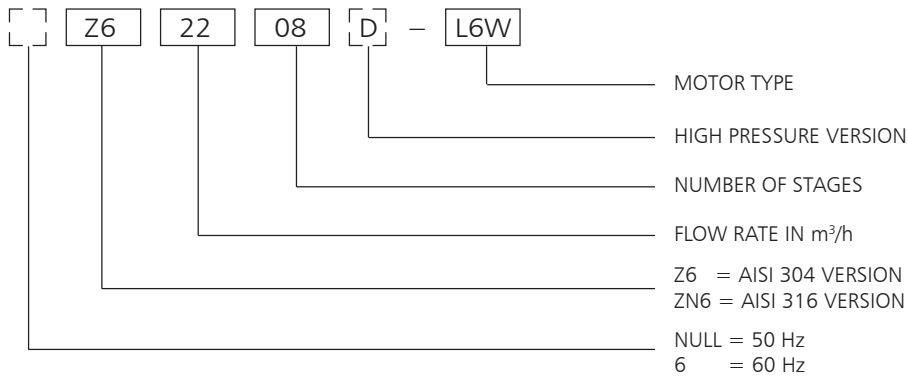
## Z6 SERIES IDENTIFICATION CODE (PUMP)



EXAMPLE : Z622 08 - 6

6" Pump at 50 Hz, AISI 304, flow rate 22 m<sup>3</sup>/h, 8 stages, with 6" motor connection.

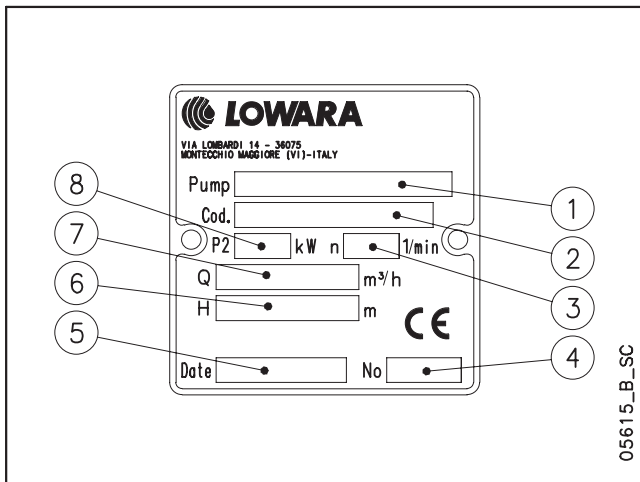
## IDENTIFICATION CODE (ELECTRIC PUMP)



EXAMPLE : Z622 08 - L6W

6" Electric pump at 50 Hz, AISI 304, flow rate 22 m<sup>3</sup>/h, 8 stages, coupled to a 6" motor L6W.

## RATING PLATE

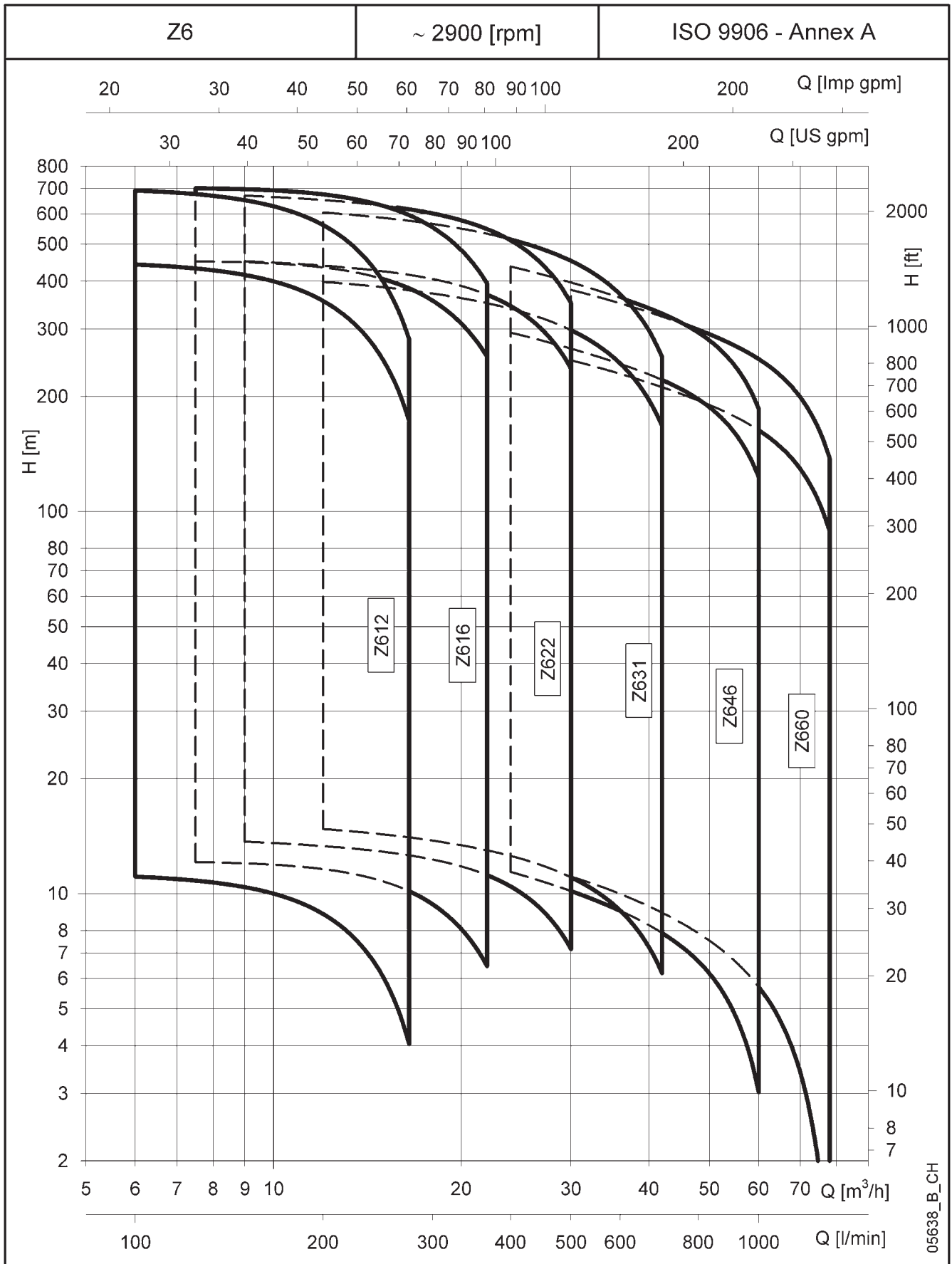


## LEGEND

- 1 - Pump type
- 2 - Code
- 3 - Speed
- 4 - Serial number
- 5 - Date of manufacture
- 6 - Head range
- 7 - Delivery range
- 8 - Rated output



**Z6 SERIES**  
**HYDRAULIC PERFORMANCE RANGE AT 50 Hz**



## Z612 SERIES, 1 TO 19 STAGES OPERATING CHARACTERISTICS AT 50 Hz

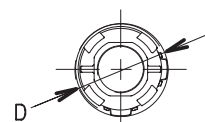
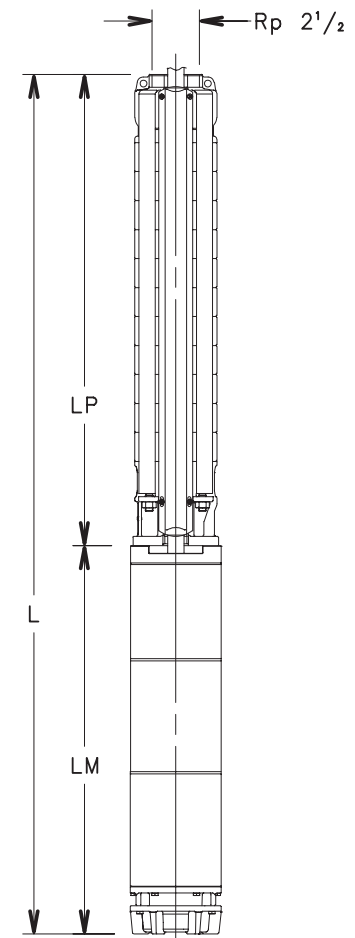
PUMP TYPE	RATED POWER kW	Q = DELIVERY						
		l/min	0	100	150	200	250	275
		m³/h	0	6	9	12	15	16,5
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z612 01	0,55	11,5	11,1	10,4	8,9	6,0	4,0	
Z612 02	1,1	23,1	22,2	20,8	17,7	12,1	8,1	
Z612 03	1,5	34,7	33,3	31,2	26,5	18,1	12,1	
Z612 04	2,2	46,3	44,4	41,6	35,3	24,1	16,1	
Z612 05	3	59,0	57,6	54,6	47,2	33,5	23,7	
Z612 06	3	70,3	68,3	64,4	55,4	38,9	27,0	
Z612 07	4	82,5	80,7	76,4	66,1	46,9	33,2	
Z612 08	4	94,0	91,4	86,2	74,2	52,2	36,5	
Z612 09	5,5	107,2	105,1	99,7	86,5	61,8	44,1	
Z612 10	5,5	117,7	115,1	108,9	94,2	66,9	47,3	
Z612 11	5,5	129,2	125,9	118,9	102,5	72,3	50,7	
Z612 12	7,5	141,3	138,3	131,0	113,4	80,6	57,1	
Z612 13	7,5	152,8	149,1	141,0	121,7	86,1	60,5	
Z612 14	7,5	164,2	159,9	150,8	129,9	91,3	63,8	
Z612 15	7,5	175,6	170,4	160,5	137,7	96,3	66,8	
Z612 16	9,3	188,0	183,7	173,7	150,0	106,1	74,7	
Z612 17	9,3	199,4	194,4	183,5	158,1	111,5	78,0	
Z612 18	9,3	210,9	205,1	193,3	166,1	116,5	81,0	
Z612 19	9,3	222,3	215,6	202,8	173,9	121,4	83,9	

## DIMENSIONS AND WEIGHTS

z612-1-50-en\_b\_th

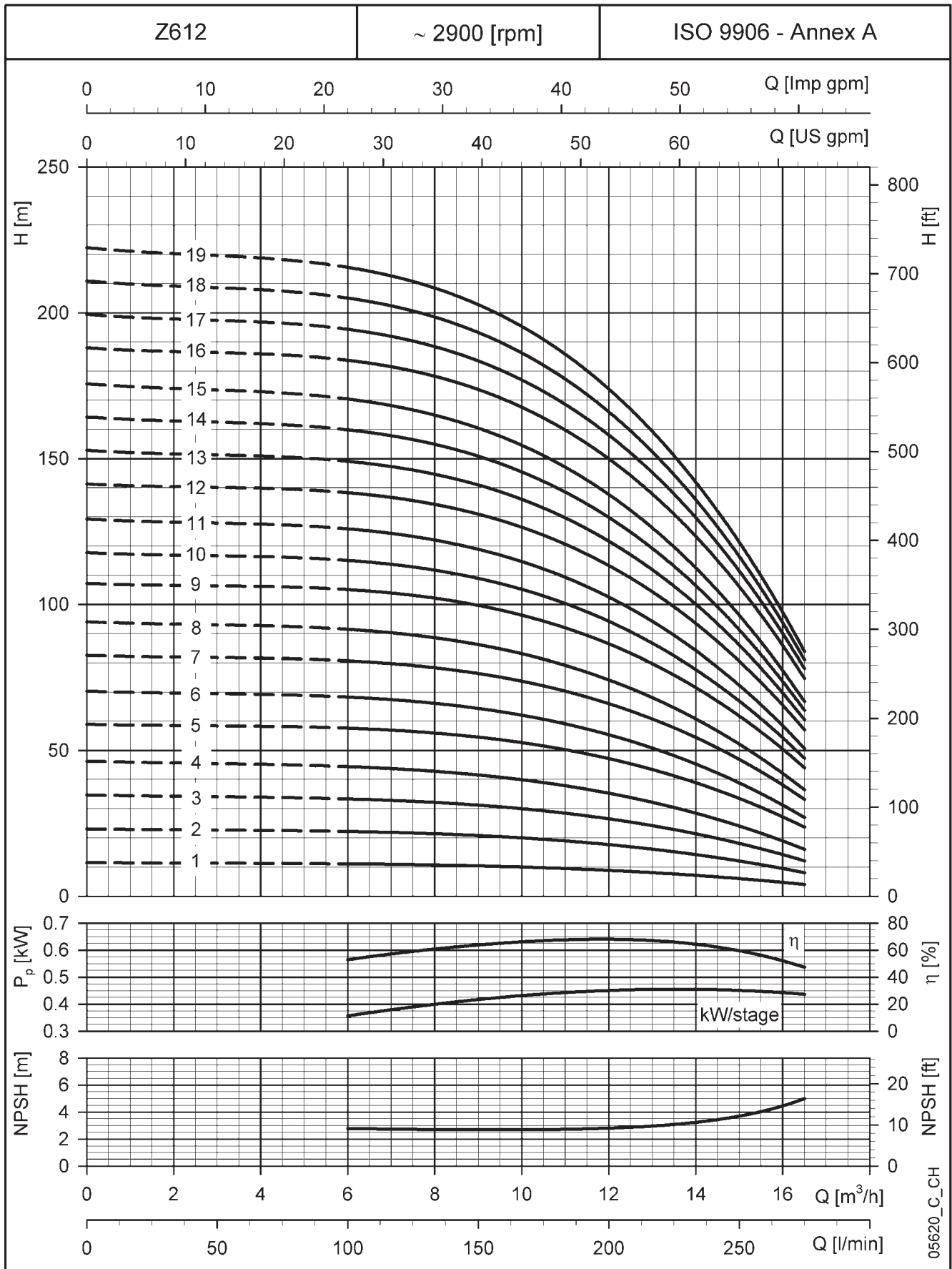
ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 01-L4C	0,55	616	236	380	142	144	16
Z612 02-L4C	1,1	712	286	426	142	144	19
Z612 03-L4C	1,5	820	348	472	142	144	23
Z612 04-L4C	2,2	911	393	518	142	144	25
Z612 05-L4C	3	1108	544	564	142	144	34
Z612 06-L4C	3	1154	544	610	142	144	36
Z612 07-L4C	4	1270	614	656	142	144	40
Z612 08-L4C	4	1316	614	702	142	144	41
Z612 09-L4C	5,5	1432	684	748	142	144	45
Z612 10-L4C	5,5	1478	684	794	142	144	47
Z612 11-L4C	5,5	1524	684	840	142	144	48
Z612 12-L4C	7,5	1650	764	886	142	144	51
Z612 13-L4C	7,5	1696	764	932	142	144	52
Z612 14-L4C	7,5	1742	764	978	142	144	53
Z612 15-L4C	7,5	1788	764	1024	142	144	55
Z612 07-L6W	4	1239	583	656	144	146	54
Z612 08-L6W	4	1285	583	702	144	146	55
Z612 09-L6W	5,5	1361	613	748	144	146	61
Z612 10-L6W	5,5	1407	613	794	144	146	62
Z612 11-L6W	5,5	1453	613	840	144	146	63
Z612 12-L6W	7,5	1539	653	886	144	146	68
Z612 13-L6W	7,5	1585	653	932	144	146	69
Z612 14-L6W	7,5	1631	653	978	144	146	70
Z612 15-L6W	7,5	1677	653	1024	144	146	72
Z612 16-L6W	9,3	1753	683	1070	144	146	77
Z612 17-L6W	9,3	1799	683	1116	144	146	78
Z612 18-L6W	9,3	1845	683	1162	144	146	79
Z612 19-L6W	9,3	1891	683	1208	144	146	80

z612-1-50-en\_a\_td



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**Z612 SERIES, 1 TO 19 STAGES  
OPERATING CHARACTERISTICS AT 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## Z612 SERIES, 20 TO 39 STAGES OPERATING CHARACTERISTICS AT 50 Hz

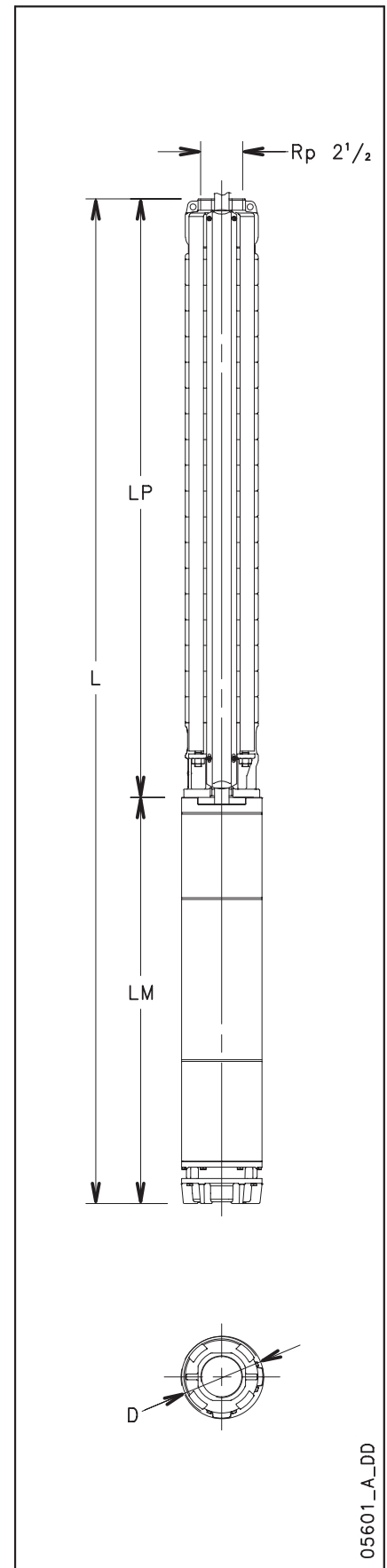
PUMP TYPE	RATED POWER kW	Q = DELIVERY						
		l/min	0	100	150	200	250	275
		m³/h	0	6	9	12	15	16,5
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z612 20	11	237,2	228,9	216,4	187,5	133,7	95,0	
Z612 21	11	248,7	239,5	226,2	195,5	139,0	98,4	
Z612 22	11	260,2	250,1	235,8	203,5	144,1	101,4	
Z612 23	11	271,7	260,5	245,4	211,4	149,2	104,5	
Z612 24	13	283,8	274,4	258,8	222,5	155,3	107,0	
Z612 25	13	295,2	285,0	268,5	230,5	160,3	109,9	
Z612 26	13	306,6	295,5	278,1	238,3	165,2	112,7	
Z612 27	13	318,0	306,0	287,6	246,0	169,8	115,3	
Z612 28	13	329,5	316,4	297,1	253,6	174,5	117,9	
Z612 29	15	344,4	334,0	315,1	272,2	194,1	138,3	
Z612 30	15	356,0	344,7	324,9	280,3	199,3	141,6	
Z612 31	15	367,3	355,3	334,6	288,2	204,3	144,7	
Z612 32	15	378,9	365,8	344,1	296,0	209,2	147,5	
Z612 33	18,5	389,0	379,1	357,5	308,1	218,2	154,2	
Z612 34	18,5	400,6	389,9	367,4	316,3	223,6	157,6	
Z612 35	18,5	412,1	400,5	377,1	324,3	228,6	160,6	
Z612 36	18,5	423,3	411,2	386,9	332,2	233,7	163,7	
Z612 37	18,5	434,7	421,7	396,4	340,0	238,7	166,8	
Z612 38	18,5	446,2	432,3	406,3	348,2	243,8	169,8	
Z612 39	18,5	457,6	442,8	415,7	355,9	248,7	172,7	

z612-2-50-en\_b\_th

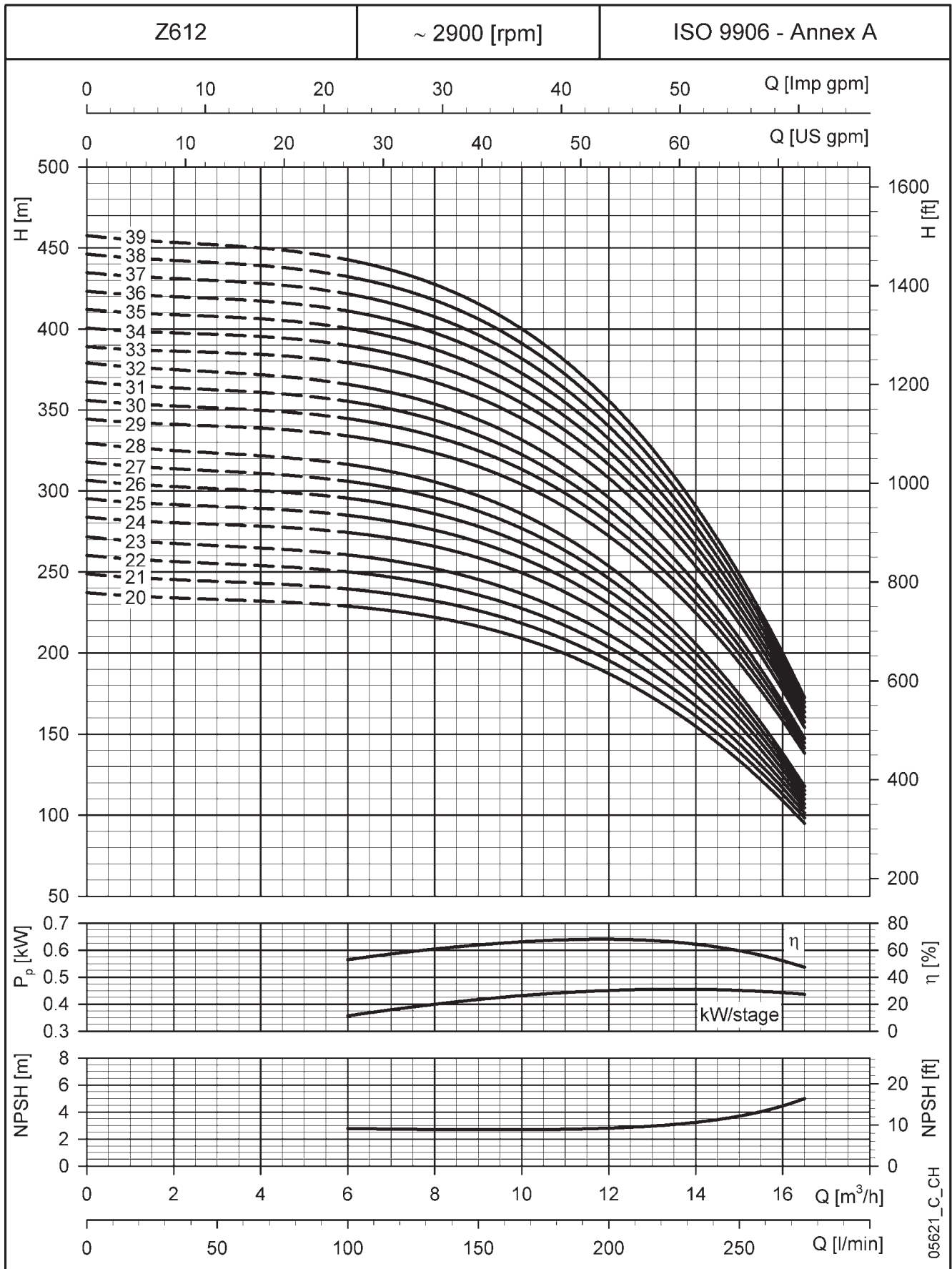
## DIMENSIONS AND WEIGHTS

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 20-L6W	11	1977	723	1254	144	146	86
Z612 21-L6W	11	2023	723	1300	144	146	87
Z612 22-L6W	11	2069	723	1346	144	146	88
Z612 23-L6W	11	2161	723	1438	144	146	90
Z612 24-L6W	13	2247	763	1484	144	146	95
Z612 25-L6W	13	2293	763	1530	144	146	96
Z612 26-L6W	13	2339	763	1576	144	146	98
Z612 27-L6W	13	2385	763	1622	144	146	99
Z612 28-L6W	13	2431	763	1668	144	146	100
Z612 29-L6W	15	2547	833	1714	144	146	109
Z612 30-L6W	15	2593	833	1760	144	146	110
Z612 31-L6W	15	2639	833	1806	144	146	112
Z612 32-L6W	15	2685	833	1852	144	146	113
Z612 33-L6W	18,5	2801	903	1898	144	146	122
Z612 34-L6W	18,5	2847	903	1944	144	146	123
Z612 35-L6W	18,5	2893	903	1990	144	146	124
Z612 36-L6W	18,5	2985	903	2082	144	146	126
Z612 37-L6W	18,5	3031	903	2128	144	146	128
Z612 38-L6W	18,5	3077	903	2174	144	146	129
Z612 39-L6W	18,5	3123	903	2220	144	146	130

z612-2-50-en\_b\_td



**Z612 SERIES, 20 TO 39 STAGES  
OPERATING CHARACTERISTICS AT 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## Z612 SERIES, 40 TO 60 STAGES OPERATING CHARACTERISTICS AT 50 Hz

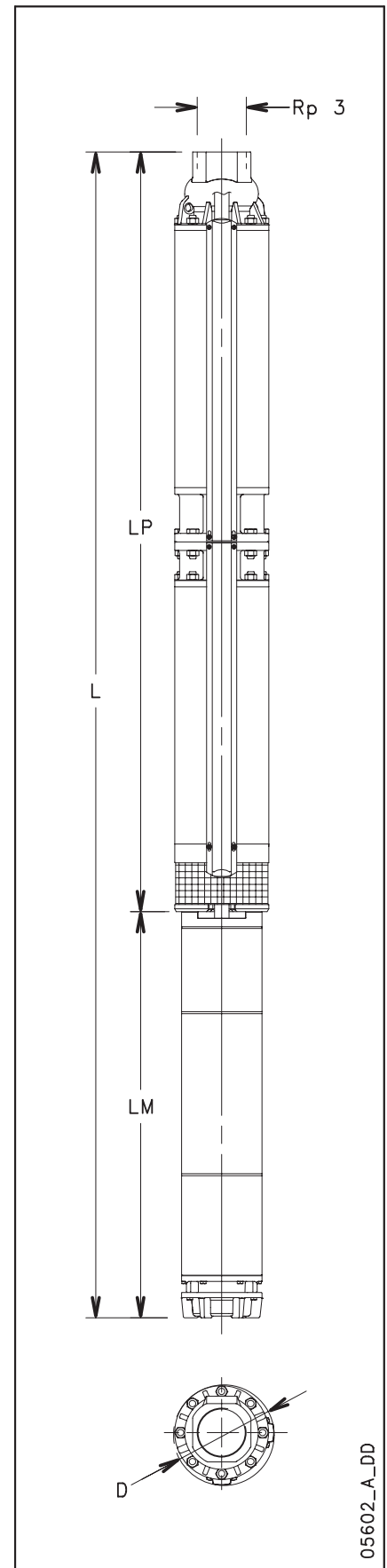
PUMP TYPE	RATED POWER kW	Q = DELIVERY						
		l/min	0	100	150	200	250	275
		m³/h	0	6	9	12	15	16,5
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z612 40D	18,5	468,7	453,3	425,2	363,5	253,4	175,5	
Z612 41D	22	484,7	471,8	444,8	383,3	271,8	192,4	
Z612 42D	22	496,1	482,6	454,6	391,4	276,9	195,4	
Z612 43D	22	507,6	493,2	464,3	399,2	281,9	198,5	
Z612 44D	22	519,1	503,8	474,0	407,3	287,0	201,6	
Z612 45D	22	530,5	514,4	483,7	415,3	292,2	204,9	
Z612 46D	22	541,9	525,0	493,1	422,8	296,8	207,6	
Z612 47D	22	553,3	535,5	502,8	430,7	301,7	210,5	
Z612 48D	26	569,6	557,2	526,8	455,9	326,1	233,4	
Z612 49D	26	581,1	568,1	536,9	464,4	331,8	237,1	
Z612 50D	26	592,7	578,9	546,8	472,6	337,2	240,7	
Z612 51D	26	604,1	589,8	556,8	480,9	342,6	244,1	
Z612 52D	26	615,9	600,8	566,8	489,1	348,0	247,6	
Z612 53D	26	627,4	611,6	576,8	497,5	353,6	251,1	
Z612 54D	26	638,8	622,4	586,6	505,4	358,6	254,3	
Z612 55D	26	650,2	633,0	596,4	513,6	364,0	257,7	
Z612 56D	30	664,2	648,5	612,4	529,1	377,4	269,3	
Z612 57D	30	675,7	659,3	622,2	537,2	382,7	272,7	
Z612 58D	30	687,5	670,2	632,3	545,5	388,2	276,1	
Z612 59D	30	698,9	680,9	642,2	553,8	393,6	279,5	
Z612 60D	30	710,2	691,9	652,1	561,9	398,6	282,6	

z612-3-50-en\_b\_th

## DIMENSIONS AND WEIGHTS

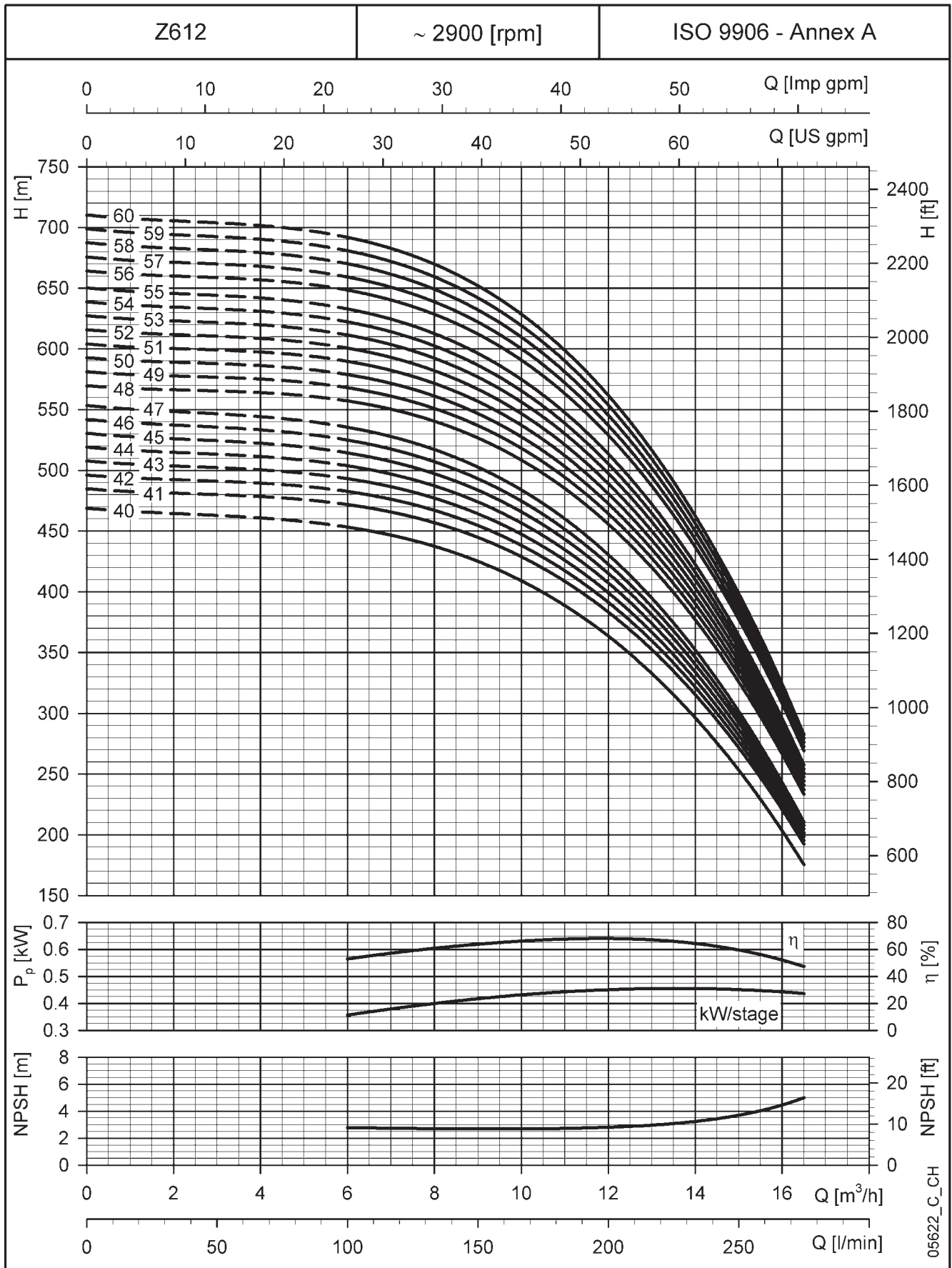
ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 40D-L6W	18,5	3825	903	2922	177	180	188
Z612 41D-L6W	22	3865	943	2922	177	180	192
Z612 42D-L6W	22	3865	943	2922	177	180	193
Z612 43D-L6W	22	3865	943	2922	177	180	193
Z612 44D-L6W	22	3865	943	2922	177	180	194
Z612 45D-L6W	22	3865	943	2922	177	180	194
Z612 46D-L6W	22	3865	943	2922	177	180	195
Z612 47D-L6W	22	3865	943	2922	177	180	195
Z612 48D-L6W	26	4407	1071	3336	177	180	217
Z612 49D-L6W	26	4407	1071	3336	177	180	218
Z612 50D-L6W	26	4407	1071	3336	177	180	218
Z612 51D-L6W	26	4407	1071	3336	177	180	219
Z612 52D-L6W	26	4407	1071	3336	177	180	219
Z612 53D-L6W	26	4407	1071	3336	177	180	220
Z612 54D-L6W	26	4407	1071	3336	177	180	221
Z612 55D-L6W	26	4407	1071	3336	177	180	221
Z612 56D-L6W	30	4487	1151	3336	177	180	230
Z612 57D-L6W	30	4625	1151	3474	177	180	234
Z612 58D-L6W	30	4625	1151	3474	177	180	234
Z612 59D-L6W	30	4625	1151	3474	177	180	235
Z612 60D-L6W	30	4763	1151	3612	177	180	239

z612-3-50-en\_b\_td



05602\_A\_DD

**Z612 SERIES, 40 TO 60 STAGES  
OPERATING CHARACTERISTICS AT 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## Z616 SERIES, 1 TO 18 STAGES OPERATING CHARACTERISTICS AT 50 Hz

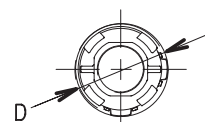
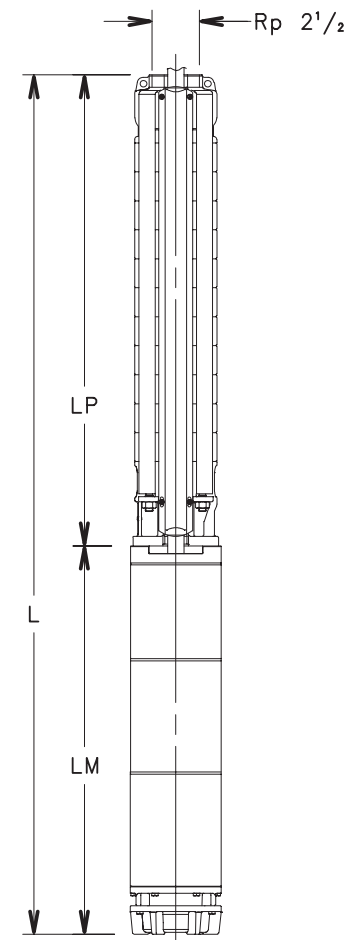
PUMP TYPE	RATED POWER kW	Q = DELIVERY						
		l/min	0	125	200	250	300	366,7
		m³/h	0	7,5	12	15	18	22
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z616 01	0,75	12,3	12,1	11,6	10,8	9,4	6,5	
Z616 02	1,5	24,7	24,1	23,1	21,4	18,6	12,7	
Z616 03	2,2	36,9	35,8	34,1	31,5	27,2	18,2	
Z616 04	3	49,9	49,5	47,8	44,6	39,3	28,2	
Z616 05	4	62,7	62,4	60,3	56,4	49,8	36,0	
Z616 06	5,5	75,7	75,5	73,3	68,7	60,8	44,3	
Z616 07	5,5	88,1	87,8	84,9	79,3	69,9	50,7	
Z616 08	7,5	100,7	100,6	97,5	91,2	80,6	58,6	
Z616 09	7,5	113,3	112,8	109,0	101,8	89,6	64,9	
Z616 10	7,5	126,0	124,7	120,0	111,6	97,6	68,7	
Z616 11	9,3	139,0	138,1	133,3	124,3	109,1	77,7	
Z616 12	9,3	151,7	150,1	144,9	135,2	118,8	85,0	
Z616 13	11	164,5	163,0	157,6	147,3	129,8	93,2	
Z616 14	11	176,6	175,1	168,9	157,8	139,0	100,3	
Z616 15	11	188,8	186,8	179,9	167,8	147,5	105,5	
Z616 16	11	201,1	198,5	190,8	177,6	155,7	110,9	
Z616 17	13	214,7	211,9	203,5	188,8	164,9	118,0	
Z616 18	13	227,0	223,6	214,3	198,5	173,0	123,5	

z616-1-50-en\_a\_th

## DIMENSIONS AND WEIGHTS

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z616 01-L4C	0,75	646	266	380	142	144	17
Z616 02-L4C	1,5	774	348	426	142	144	22
Z616 03-L4C	2,2	865	393	472	142	144	24
Z616 04-L4C	3	1062	544	518	142	144	33
Z616 05-L4C	4	1178	614	564	142	144	37
Z616 06-L4C	5,5	1294	684	610	142	144	42
Z616 07-L4C	5,5	1340	684	656	142	144	43
Z616 08-L4C	7,5	1466	764	702	142	144	46
Z616 09-L4C	7,5	1512	764	748	142	144	48
Z616 10-L4C	7,5	1558	764	794	142	144	49
Z616 05-L6W	4	1147	583	564	144	146	52
Z616 06-L6W	5,5	1223	613	610	144	146	57
Z616 07-L6W	5,5	1269	613	656	144	146	58
Z616 08-L6W	7,5	1355	653	702	144	146	63
Z616 09-L6W	7,5	1401	653	748	144	146	65
Z616 10-L6W	7,5	1447	653	794	144	146	66
Z616 11-L6W	9,3	1523	683	840	144	146	71
Z616 12-L6W	9,3	1569	683	886	144	146	72
Z616 13-L6W	11	1655	723	932	144	146	77
Z616 14-L6W	11	1701	723	978	144	146	78
Z616 15-L6W	11	1747	723	1024	144	146	80
Z616 16-L6W	11	1793	723	1070	144	146	81
Z616 17-L6W	13	1879	763	1116	144	146	86
Z616 18-L6W	13	1925	763	1162	144	146	87

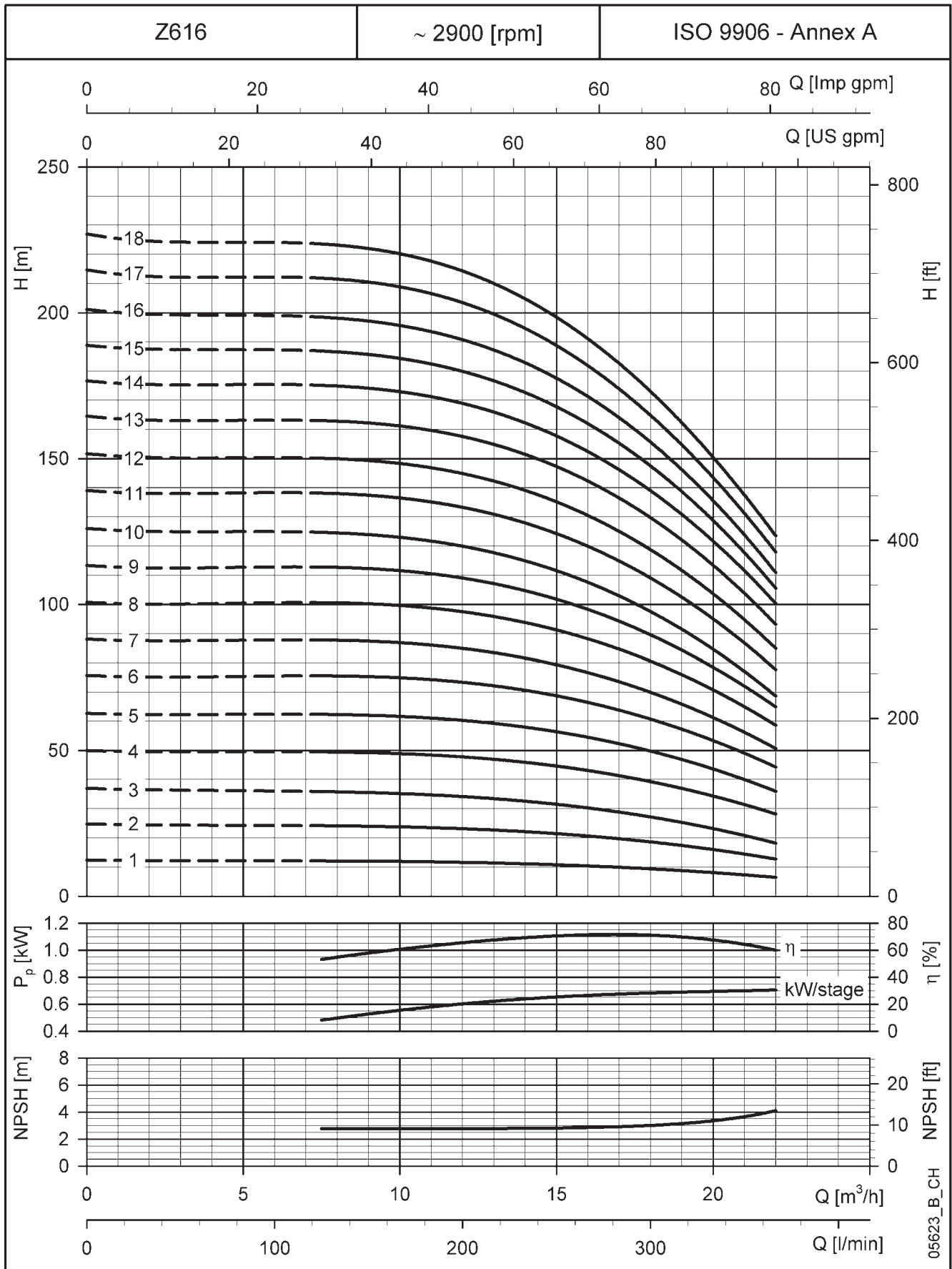
z616-1-50-en\_a\_td



05600\_A\_DD



**Z616 SERIES, 1 TO 18 STAGES  
OPERATING CHARACTERISTICS AT 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

## Z616 SERIES, 19 TO 36 STAGES OPERATING CHARACTERISTICS AT 50 Hz

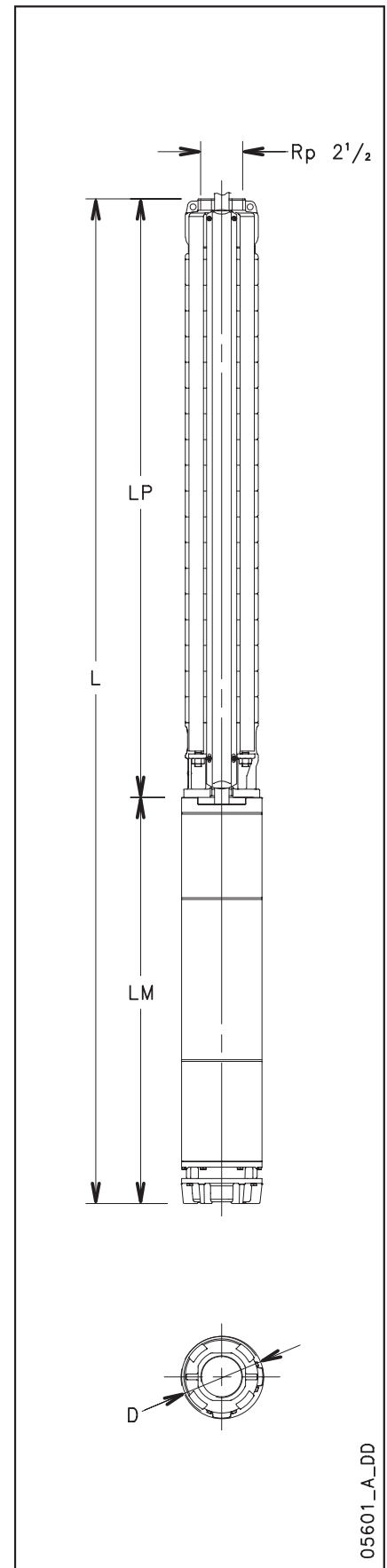
PUMP TYPE	RATED POWER kW	Q = DELIVERY						
		l/min	0	125	200	250	300	366,7
		m³/h	0	7,5	12	15	18	22
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z616 19	15	240,1	237,5	228,4	212,2	185,6	133,4	
Z616 20	15	250,7	248,1	238,6	221,8	194,1	137,1	
Z616 21	15	262,9	259,7	249,4	231,7	202,3	142,1	
Z616 22	18,5	276,4	274,6	264,9	247,0	216,9	154,4	
Z616 23	18,5	288,5	286,4	276,0	257,1	225,5	160,1	
Z616 24	18,5	300,9	298,2	287,0	267,1	233,9	165,5	
Z616 25	18,5	313,0	310,0	298,0	277,0	242,2	171,2	
Z616 26	18,5	325,3	321,5	308,8	286,8	250,5	176,0	
Z616 27	22	340,3	337,9	325,8	303,9	267,0	190,3	
Z616 28	22	352,7	349,7	337,0	314,0	275,5	195,8	
Z616 29	22	364,8	361,6	348,1	324,1	284,1	201,6	
Z616 30	22	377,1	373,2	358,9	333,9	292,4	206,7	
Z616 31	26	391,8	391,0	378,3	353,9	312,1	225,1	
Z616 32	26	404,2	403,0	389,7	364,3	321,0	230,9	
Z616 33	26	416,8	415,1	401,1	374,8	330,0	237,0	
Z616 34	26	429,1	427,1	412,5	385,0	338,6	242,9	
Z616 35	26	441,4	439,0	423,7	395,3	347,5	248,6	
Z616 36	26	453,8	450,9	434,9	405,5	356,1	254,0	

z616-2-50-en\_a\_th

## DIMENSIONS AND WEIGHTS

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z616 19-L6W	15	2041	833	1208	144	146	96
Z616 20-L6W	15	2087	833	1254	144	146	98
Z616 21-L6W	15	2133	833	1300	144	146	99
Z616 22-L6W	18,5	2249	903	1346	144	146	108
Z616 23-L6W	18,5	2341	903	1438	144	146	110
Z616 24-L6W	18,5	2387	903	1484	144	146	111
Z616 25-L6W	18,5	2433	903	1530	144	146	112
Z616 26-L6W	18,5	2479	903	1576	144	146	114
Z616 27-L6W	22	2565	943	1622	144	146	118
Z616 28-L6W	22	2611	943	1668	144	146	119
Z616 29-L6W	22	2657	943	1714	144	146	120
Z616 30-L6W	22	2703	943	1760	144	146	121
Z616 31-L6W	26	2877	1071	1806	144	146	132
Z616 32-L6W	26	2923	1071	1852	144	146	133
Z616 33-L6W	26	2969	1071	1898	144	146	134
Z616 34-L6W	26	3015	1071	1944	144	146	135
Z616 35-L6W	26	3061	1071	1990	144	146	136
Z616 36-L6W	26	3153	1071	2082	144	146	138

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