

# OZ6-FZ6 SERIES

## SUBMERSIBLE PUMPS FOR 6" WELLS

### APPLICATIONS

- Water supply from deep wells.
- Irrigation.
- Pressure boosting.
- Fire-fighting.
- Mines.

### SPECIFICATIONS

- **O4Z6, OZ6:** Pumps for 6" wells coupled to 4OS and OS6 motor respectively.
- **F4Z6, FZ6:** Pumps for 6" wells coupled to F4 and F6 motor respectively.
- **Delivery** up to **78 m³/h.**
- **Head** up to **410 m.**
- **Maximum** electric pump overall **diameter** (cable cover included): **147 mm.**
- **Maximum** immersion **depth: 150 meters** (with **OS** motor) **350 meters** (with **F** motor)
- **Maximum permissible quantity** of suspended **sand: 25 g/m³.**
- **Delivery port:**
  - 2½" for **Z611 - Z615 - Z621** series (radial impeller).
  - **3"** for **Z630 - Z642 - Z658** series (semi-axial impeller).
- Rated motor power: from **3 to 30 kW.**
- **Three-phase version:** 380-415 V 50 Hz.
- Maximum supply voltage variations: ±5%.
- **Class B or F** windings, depending on motor type.
- F6 and OS6 series motors, with power up to 15 kW, **can operate either vertically or horizontally**, whereas OS6 series motors with power above 15 kW can operate in the vertical position only.
- Maximum number of **starts per hour: 15-30**, depending on type of motor.
- **Maximum temperature** of water in contact with the motor: **30°/40°C**, depending on installation and motor power.
- Versions with dual cable outlet for star/delta starting are available on request.



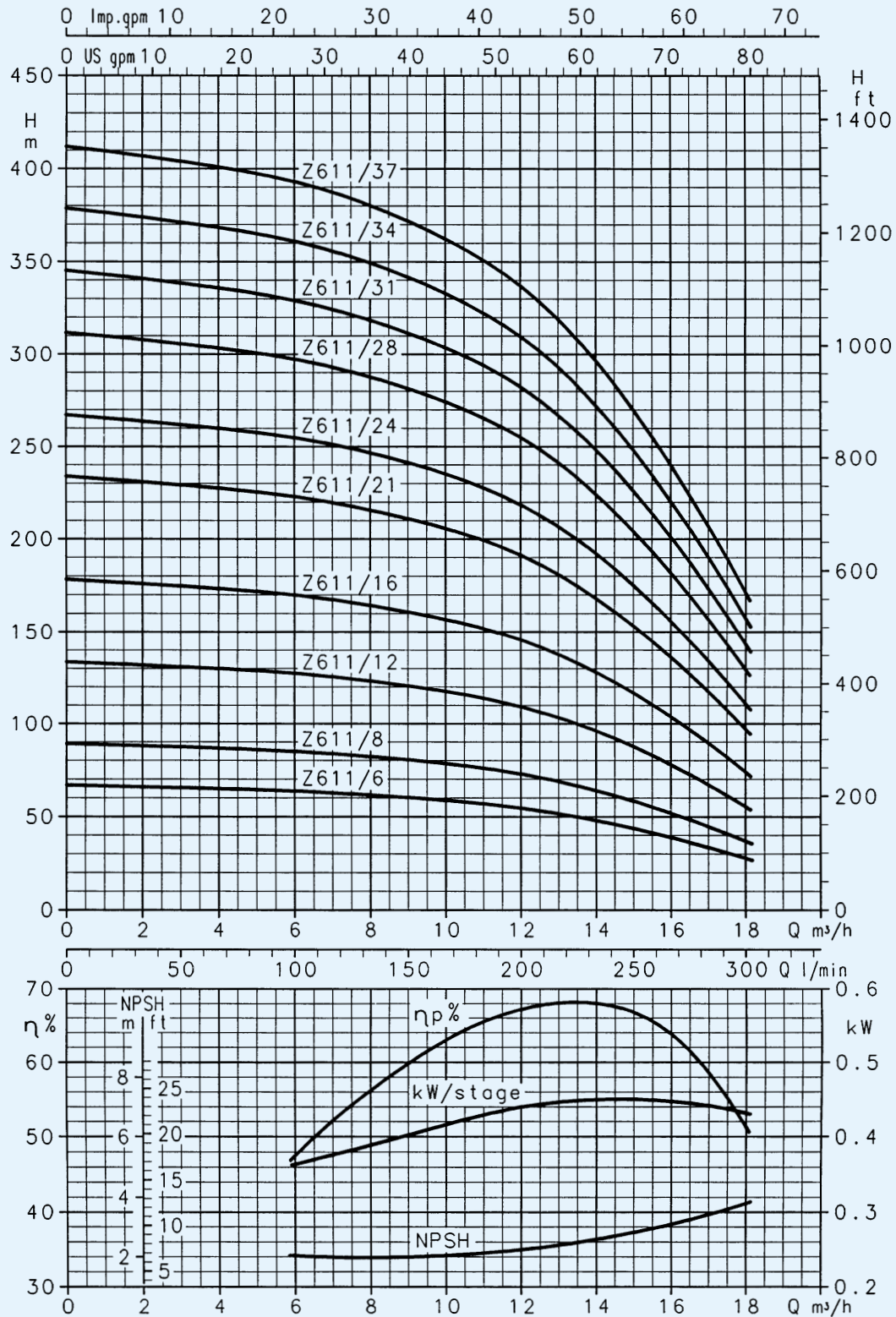
### CONSTRUCTION CHARACTERISTICS

- The guide bearings and wear rings, made of special high nitrile-content rubber, ensure high resistance to wear and guarantee the **constant and long-lasting performance of the hydraulic characteristics.**
- Coupling and flange dimensions meet NEMA standards.
- Two liquid end versions:
  - **RADIAL FLOW** for high heads (up to 410 m) and low deliveries (30 m³/h)
  - **SEMIAXIAL FLOW** for medium deliveries and heads (up to 78 m³/h and up to 270 m).

### TABLE OF MATERIALS

PART	MATERIAL
Outer sleeve, Delivery port, Non-return valve Diffusers, Impeller, Conveyor, Cable protection, Lower support, Spacers, Screws, Bolts, Washers	STAINLESS STEEL (AISI 304 - DIN 1.4301)
Pump shaft, Coupling	STAINLESS STEEL (AISI 420 - DIN 1.4021)
Coupling fastening screws	STAINLESS STEEL (AISI 431 - DIN 1.4057)
Small blocks	STAINLESS STEEL (AISI 316L - DIN 1.4404)
Fifth wheel	PHENOLIC RESIN
Wear rings, Bush bearings	NITRILE RUBBER

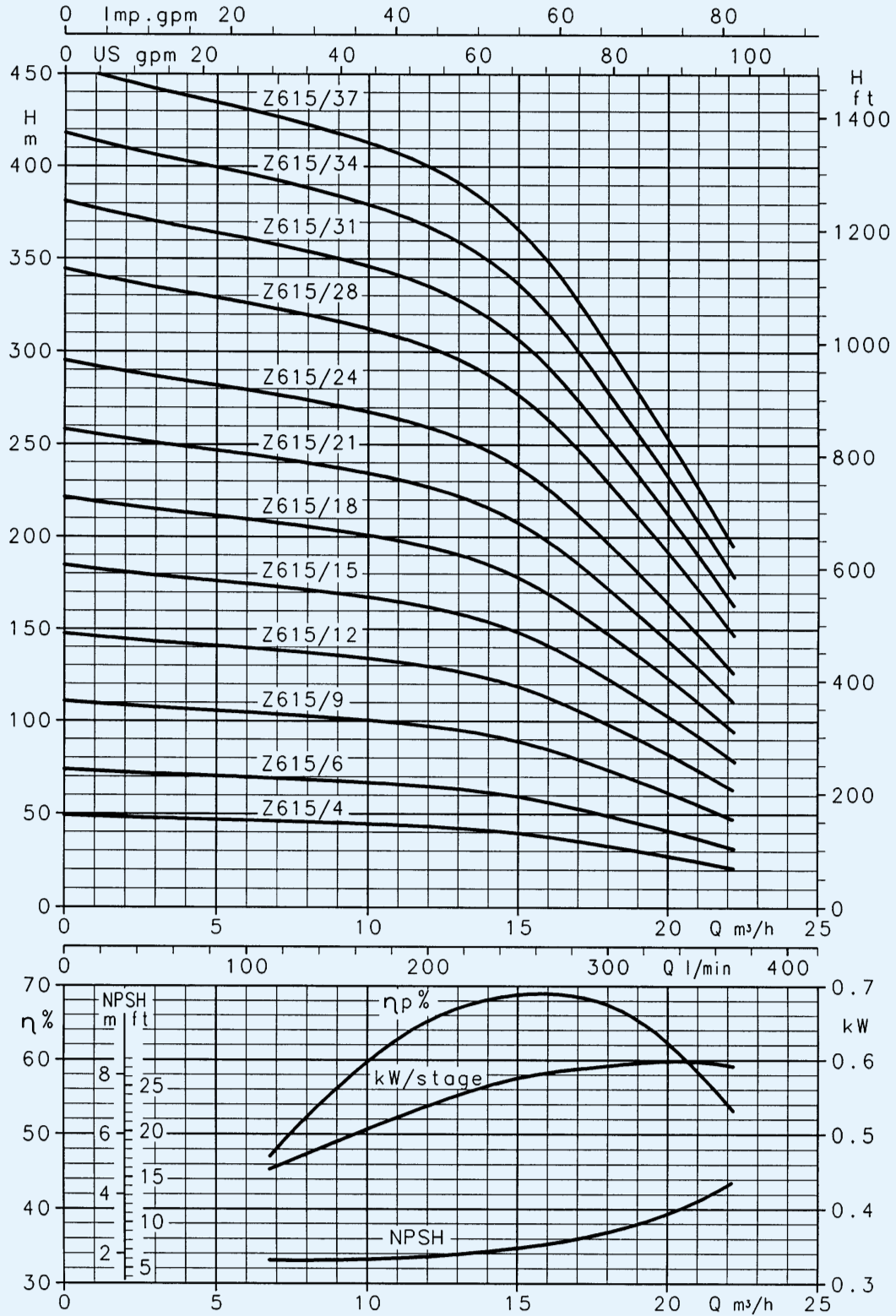
## Z611 SERIES OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz



**076-FZ6**

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

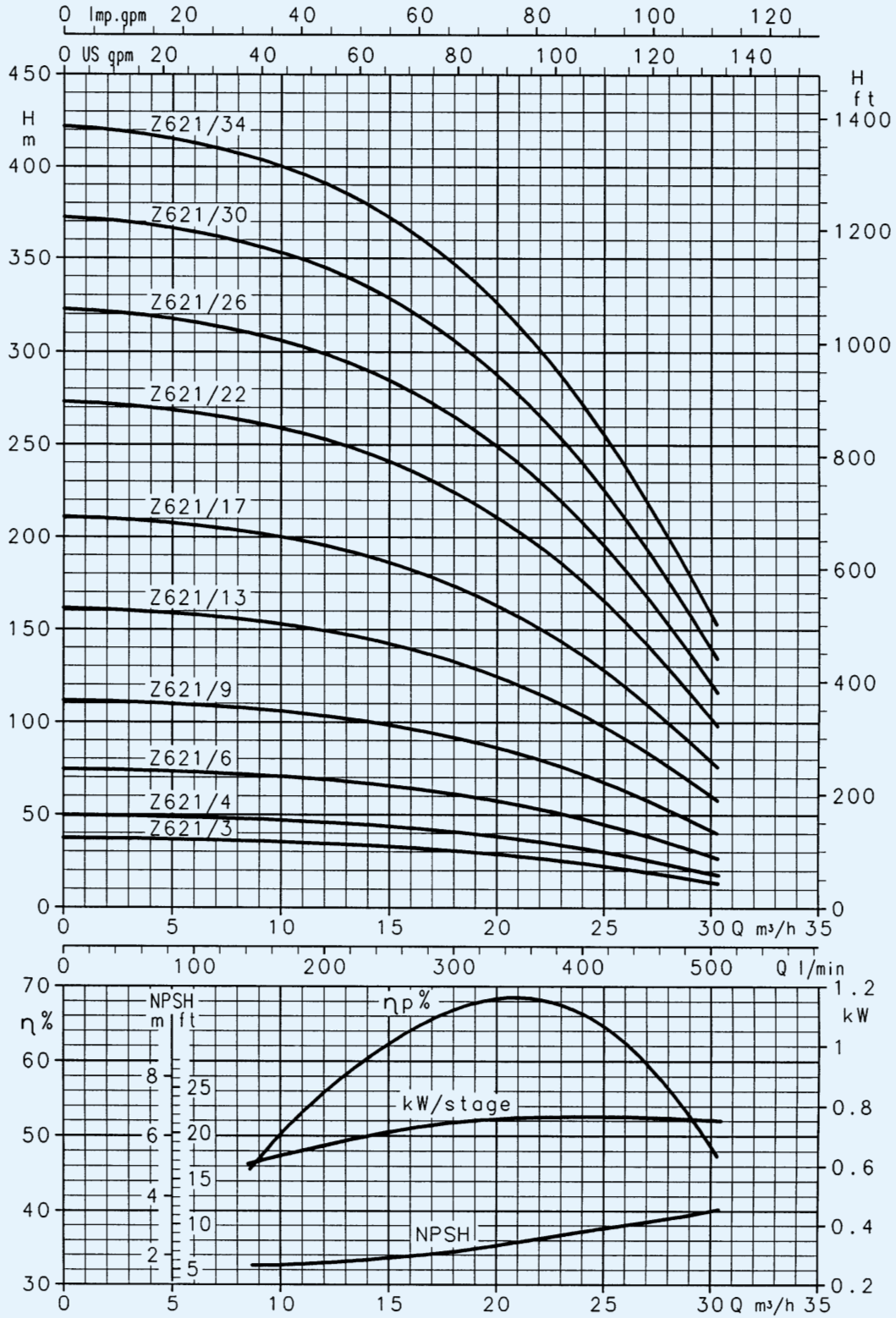
**Z615 SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz**



**0Z6-FZ6**

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

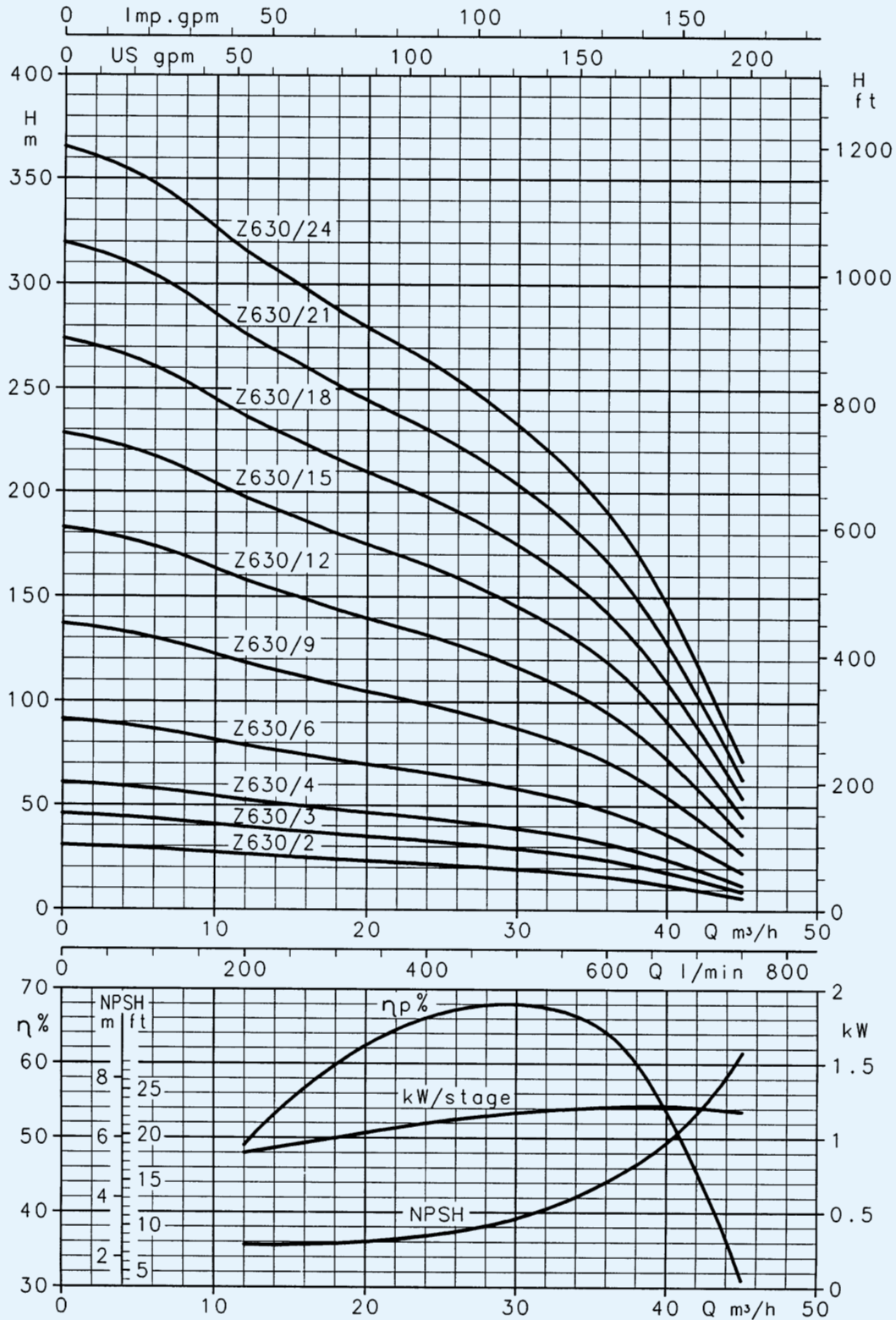
**Z621 SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz**



**0Z6-FZ6**

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

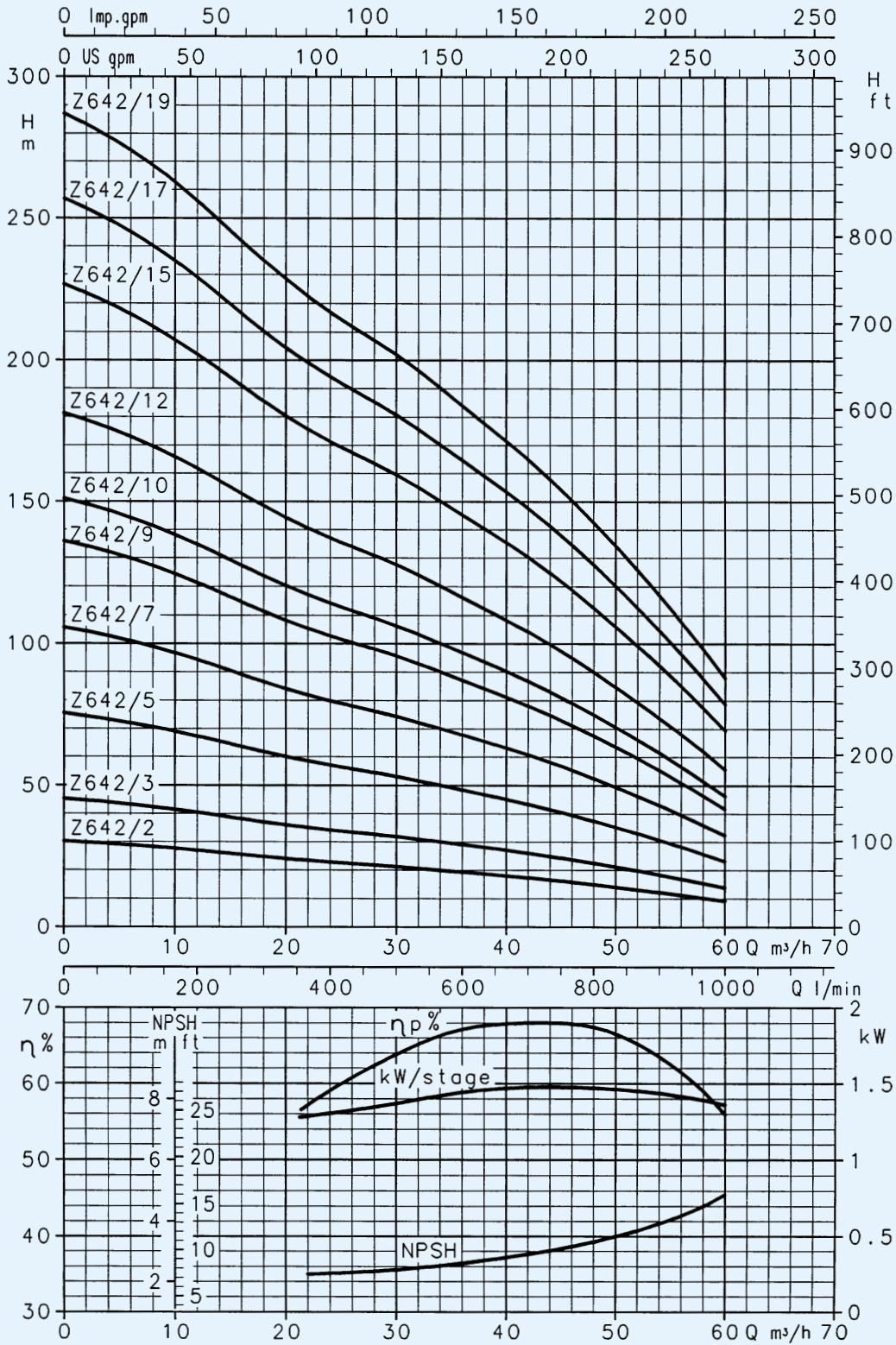
**Z630 SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz**



**0Z6-FZ6**

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

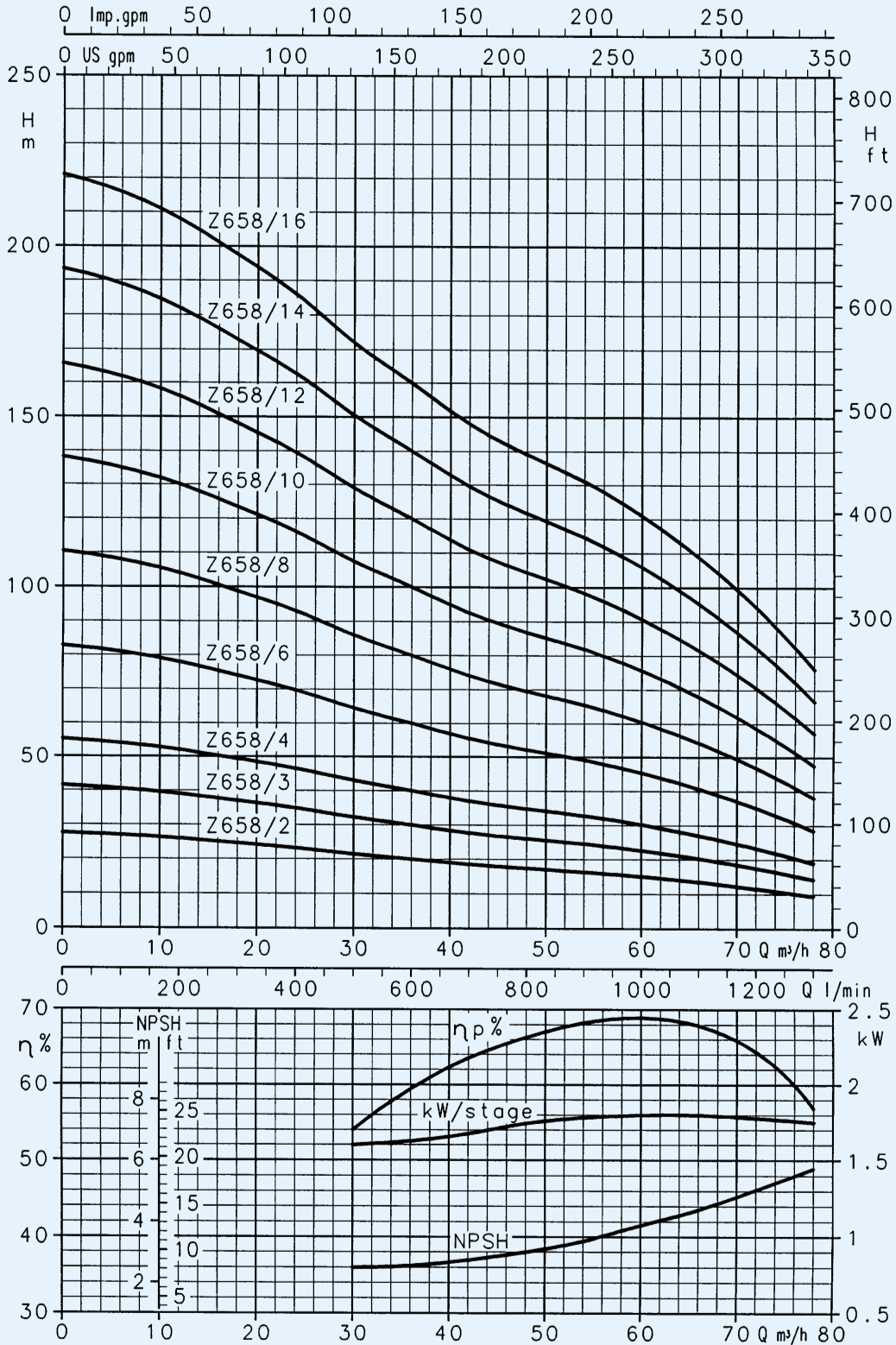
**Z642 SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz**



**0Z6-FZ6**

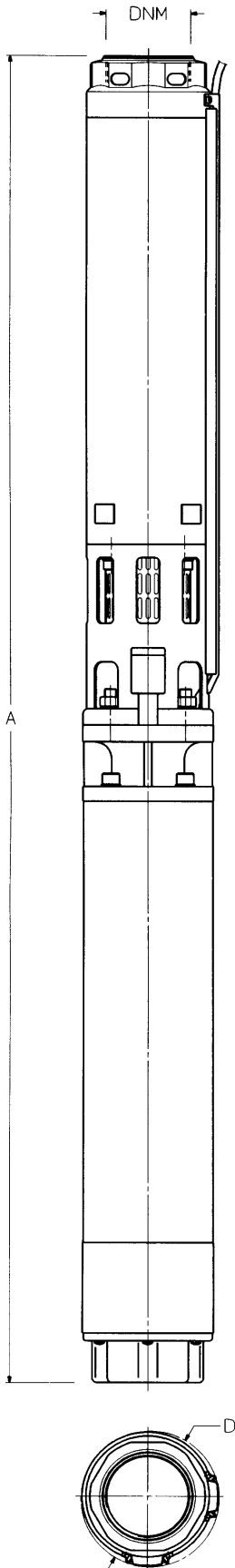
These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

## Z658 SERIES OPERATING CHARACTERISTICS AT 2850 rpm, 50 Hz



**0Z6-FZ6**

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

**DIMENSIONS AND WEIGHTS**

**FZ**

PUMP TYPE	OVERALL DIMENSIONS IN mm		DNM	WEIGHT kg
	A	D		
F4Z611/6	1195	ø138,5	G 2½"	34,8
F4Z611/8	1311			40,5
F4Z611/12	1619			50
F4Z611/16	1845			57
F4Z615/4	1117	ø138,5	G 2½"	32,8
F4Z615/6	1233			38,5
F4Z615/9	1502			47
F4Z615/12	1689			53
F4Z621/3	1094	ø138,5	G 2½"	31,8
F4Z621/4	1177			36,5
F4Z621/6	1418			44,5
F4Z621/9	1621			51
F4Z630/2	1211	ø138,5	G 3"	33,5
F4Z630/3	1361			38,5
F4Z630/4	1625			47,5
F4Z630/6	1919			55,5
F4Z642/2	1249	ø138,5	G 3"	36
F4Z642/3	1513			45
F4Z642/5	1807			53
F4Z658/2	1249	ø138,5	G 3"	36
F4Z658/3	1513			45
F4Z658/4	1695			50,5
FZ611/6	1267	ø144	G 2½"	50,5
FZ611/8	1346			52,5
FZ611/12	1534			59,7
FZ611/16	1722			66,5
FZ611/21	1983			78,8
FZ611/24	2099			81,8
FZ611/28	2320			92,3
FZ611/31	2438			95,3
FZ611/34	2620			105
FZ611/37	2738			108
FZ615/4	1189			ø144
FZ615/6	1267	50,5		
FZ615/9	1418	56,7		
FZ615/12	1566	61,5		
FZ615/15	1749	72,8		
FZ615/18	1865	75,8		
FZ615/21	2048	85,3		
FZ615/24	2164	88,3		
FZ615/28	2386	98,7		
FZ615/31	2504	102		
FZ615/34	2685	111		
FZ615/37	2803	114		
FZ621/3	1167	ø144	G 2½"	47,5
FZ621/4	1211			48,5
FZ621/6	1334			54,2
FZ621/9	1500			59
FZ621/13	1743			71,3
FZ621/17	1984			82,3
FZ621/22	2274			94,2
FZ621/26	2517			105
FZ621/30	2825			122
FZ621/34	3003			126
FZ630/2	1284			ø144
FZ630/3	1396	51,5		
FZ630/4	1541	57		
FZ630/6	1797	64		
FZ630/9	2198	80		
FZ630/12	2599	94		
FZ630/15	3001	108		
FZ630/18	3402	121		
FZ630/21	3868	142		
FZ630/24	4204	149		
FZ642/2	1284	ø144	G 3"	
FZ642/3	1429			54,7
FZ642/5	1685			61,5
FZ642/7	1974			73,8
FZ642/9	2263			86,3
FZ642/10	2375			88,8
FZ642/12	2665			100
FZ642/15	3066			114
FZ642/17	3420			132
FZ642/19	3644			137
FZ658/2	1284			ø144
FZ658/3	1429	54,7		
FZ658/4	1573	59		
FZ658/6	1862	71,3		
FZ658/8	2151	84		
FZ658/10	2441	96		
FZ658/12	2730	107		
FZ658/14	3084	124		
FZ658/16	3308	129		

**OZ**

PUMP TYPE	OVERALL DIMENSIONS IN mm		DNM	WEIGHT kg
	A	D		
O4Z611/6	1210	ø138,5	G 2½"	35
O4Z611/8	1364			40
O4Z611/12	1635			48
O4Z611/16	1867			57
O4Z615/4	1131	ø138,5	G 2½"	33
O4Z615/6	1285			38
O4Z615/9	1518			45
O4Z615/12	1711			52
O4Z621/3	1109	ø138,5	G 2½"	32
O4Z621/4	1229			36
O4Z621/6	1434			42,5
O4Z621/9	1644			49
O4Z630/2	1226	ø138,5	G 3"	33
O4Z630/3	1414			39
O4Z630/4	1641			45,5
O4Z630/6	1941			54
O4Z642/2	1302	ø138,5	G 3"	36
O4Z642/3	1529			43
O4Z642/5	1829			52
O4Z658/2	1302	ø138,5	G 3"	36
O4Z658/3	1529			43
O4Z658/4	1717			49
OZ611/6	1320	ø147	G 2½"	53
OZ611/8	1399			55
OZ611/12	1634			67
OZ611/16	1840			82
OZ611/21	2143			96
OZ611/24	2259			99
OZ611/28	2505			115
OZ611/31	2623			118
OZ611/34	2829			133
OZ611/37	2947			136
OZ615/4	1242			ø147
OZ615/6	1320	53		
OZ615/9	1518	64		
OZ615/12	1684	77		
OZ615/15	1909	90		
OZ615/18	2025	93		
OZ615/21	2233	108		
OZ615/24	2349	111		
OZ615/28	2595	127		
OZ615/31	2713	130		
OZ615/34	2919	144		
OZ615/37	3037	147		
OZ621/3	1220	ø147	G 2½"	50
OZ621/4	1264			51
OZ621/6	1434			61,5
OZ621/9	1618			74,5
OZ621/13	1903			88,5
OZ621/17	2169			105
OZ621/22	2483			123
OZ621/26	2751			138
OZ621/30	3039			155
OZ621/34	3217			160
OZ630/2	1337			ø147
OZ630/3	1449	54		
OZ630/4	1641	64,5		
OZ630/6	1915	79,5		
OZ630/9	2358	97		
OZ630/12	2784	117		
OZ630/15	3210	136		
OZ630/18	3636	155		
OZ630/21	4082	175		
OZ630/24	4418	183		
OZ642/2	1337	ø147	G 3"	
OZ642/3	1529			62
OZ642/5	1803			77
OZ642/7	2134			91
OZ642/9	2448			109
OZ642/10	2560			112
OZ642/12	2874			129
OZ642/15	3300			147
OZ642/17	3634			165
OZ642/19	3858			170
OZ658/2	1337			ø147
OZ658/3	1529	62		
OZ658/4	1691	74,5		
OZ658/6	2022	88,5		
OZ658/8	2336	107		
OZ658/10	2650	124		
OZ658/12	2964	140		
OZ658/14	3298	158		
OZ658/16	3522	163		