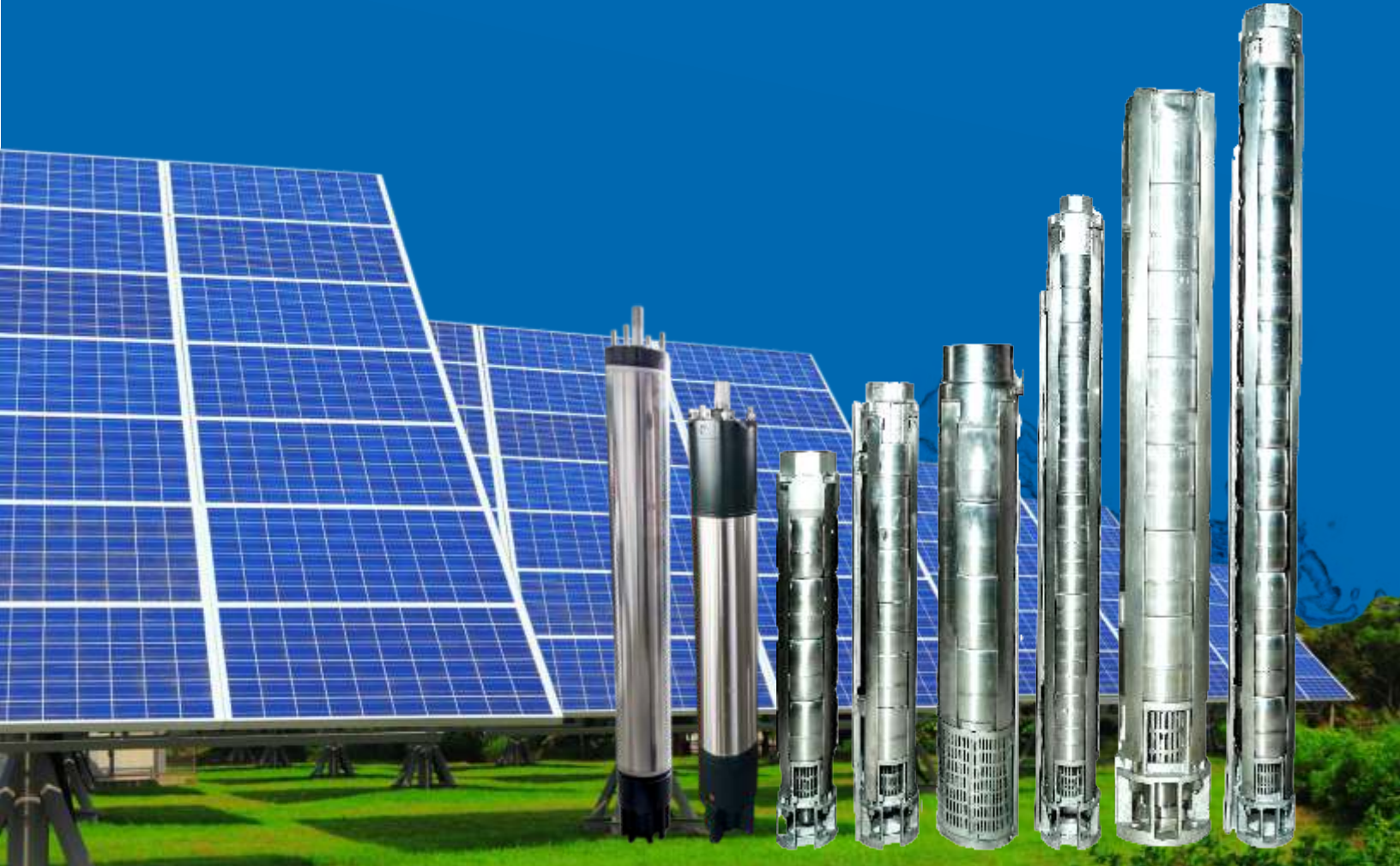




ISO 9001:2015 & CE Certified Company

Stainless Steel Submersible Pumps

60Hz Catalogue



PUMPS | PIPES | CABLES | SOLAR PUMPS



ISO 9001:2015 & CE Certified Company

Stainless Steel Submersible Pumps



The Company

We are manufacturers innovative **LIFE FORCE PUMPS**, top-quality water pumps world-wide in different versions. Our very wide range of pumps can be used in many aspects of daily life.

The **LIFE FORCE PUMPS** is structured in such a way that allows individual attention of the client, whilst adapting to changes on the fast-moving market.

LIFE FORCE Pumps - Saga of technique start with notion to satisfy our God – our customers to the domestic & exports market as well.

LIFE FORCE – Group of seasoned corporate is beased on strategic objectives.

More than a decades R&D has given Life force a total solutions for need of water.

Mission

To point solution to the need of the customers – Life force has immersed in stream of the pump manufacturers with distinct feature to join hands for eternal relationship.

Endless efforts we commit to put forward to retain the valuable relationship, which is the only 'Asset' we possess.

Every effort – total solution to need of Customer = eternal asset.

Quality Approval

We are the ISO-9001:2015 & CE Certified Company

Contant

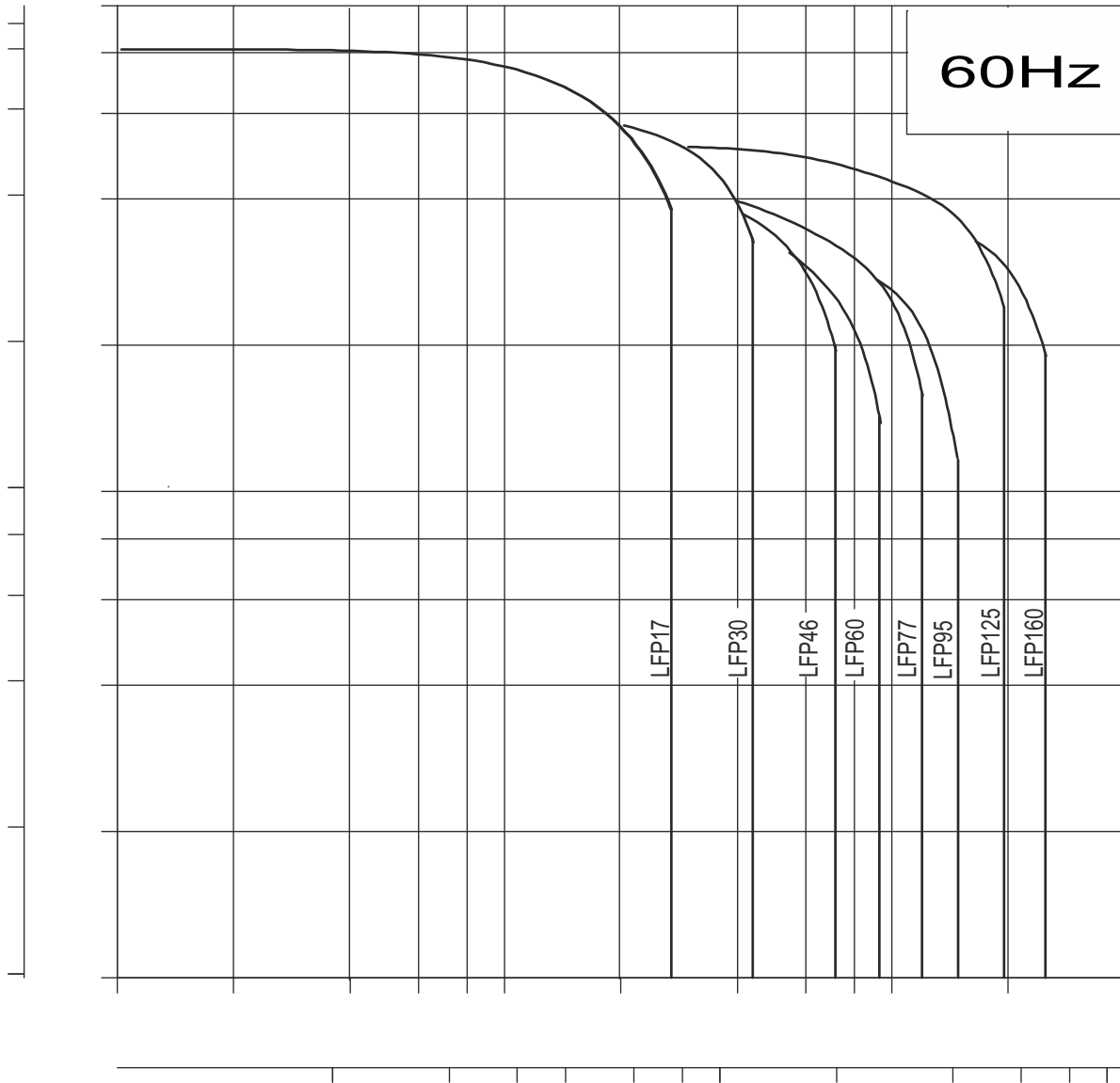
| Submersible Pumps – LFP Series | Page No. |
|--|-----------------|
| Perforance Range | 03 |
| Pumps Range | 04 |
| Motors Range | 04 |
| Application | 05 |
| Type Key | 05 |
| Pumped Liquids | 05 |
| Operating Conditions | 05 |
| Curve Conditions | 05 |
| Features and Benefits | 06 |
| Material Specification | 07 |
| Submersible Motors LFP 150 Outline Drawing | 08 |
| Application of Submersible Motor LFP 150 | 09 |
| Technical Specification and Material of Motors | 09 |
| Perforance Data of Submersible Motors | 10 |

Technical Data and Performamnce Curve

| | |
|--|---------|
| Pumps LFP 17 | 11 – 15 |
| Pumps LFP 30 | 16 – 20 |
| Pumps LFP 46 | 21 – 25 |
| Pumps LFP 60 | 26 – 30 |
| Pumps LFP 77 | 31 – 35 |
| Pumps LFP 95 | 36 – 40 |
| Pumps LFP 125 | 41 – 45 |
| Pumps LFP 160 | 46 – 50 |
| Table of Head Losses in Ordinary Water Pipes | 51 |
| Table of Head Losses in Plastic Pipes | 52 |

PERFORMANCE RANGE OF LFP SERIES

www.lifeforcepumps.com



Pump Range

| Type | LFP 17 | LFP 30 | LFP 46 | LFP 60 | LFP 77 | LFP 95 | LFP 125 | LFP 160 |
|--|--------|--------|--------|--------|--------|--------|---------|---------|
| Steel: AISI SS 304 | + | + | + | + | + | + | + | + |
| Connection: Rp (Inches) BSP Thread | 2.5" | 3" | 4" | 4" | 5" | 5" | 6" | 6" |
| NPT Thread | 3" | 3" | 4" | 4" | 5" | 5" | 6" | 6" |
| Flange Connection | | | | | 5" | 5" | 6" | 6" |

Motor Range

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

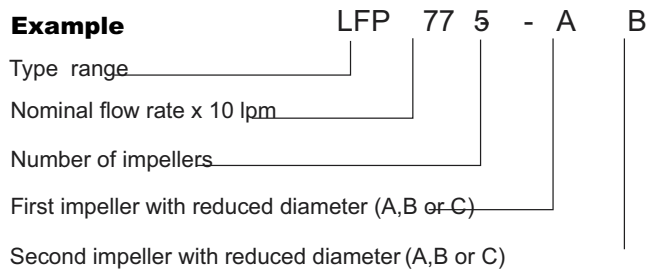
Direct on Linestarting is recommended up to 7.5kW.

Softstarter or autotransformer is recommended above 7.5kW.

Applications

- The pumps are suitable for the following applications:
- raw water supply
 - irrigation systems
 - groundwater lowering
 - pressure boosting
 - industrial applications

Type Key



Pumped Liquids

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

Operating Conditions

Flow rate Q Maximum: 10 - 216 m3/h
 Head H: max. 810m

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

Operating pressure: Maximum 810m (81 bar)

Curve Conditions

- Curve tolerance according to ISO 9906, Annex A
- The performance curves show pump performance at actual speed cf. standard motor range.
- The speed of the motors is approximately :
 - 4" and 6" motors : n=3450 min-1
 - 8" to 12" motors : n=3500 min-1
- The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of 1mm²/s. When pumping liquids with density higher than that of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range.
- The performance curves are inclusive of possible losses such as non-return valve loss.

Table of Head Losses

LFP 17, LFP 30, LFP 46, LFP 60, LFP 77, LFP 95, LFP 125, LFP 160 Curves

- Q/H : The curves are inclusive of valve and inlet losses at the actual speed.
- Operation without non-return valve (NRV) will increase the actual head at nominal performance by 0.5 - 1.0 m.
- NPSHR The curve is inclusive of suction case and shows required inlet pressure.
- Power Curve: It shows pump power input at the actual speed for each individual pump size.
- Efficiency Curve : Efficiency shows pump stage efficiency.



FEATURES AND BENEFITS

A WIDE PUMP RANGE

We offer submersible pumps with energy efficient duty point ranging from 10m³/hrs to 204m³/hrs. The pump range consists of many pump sizes and each pump size is available with an optional number of stages to match and duty point.

HIGH PUMP EFFICIENCY

Often pump efficiency is a neglected factor compared to the price. However, the observant user will notice that price variations are without importance to water supply economics compared to the importance of pump and motor efficiencies.

EXAMPLE

When pumping 125m³/hrs with a head of 200m for a period of 10 years \$60,000 will be saved if pumps and motors having a 10% higher efficiency are chosen and the price is \$0.10 per kWh.

APPLICATION

We offer a complete range of pumps and motors which as a standard are made completely of stainless steel AISI-304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

LOW INSTALLATION COSTS

Stainless steel means low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel

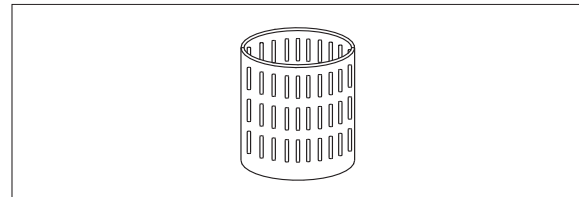
Bearings with Sand Channels

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



Inlet Strainer

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

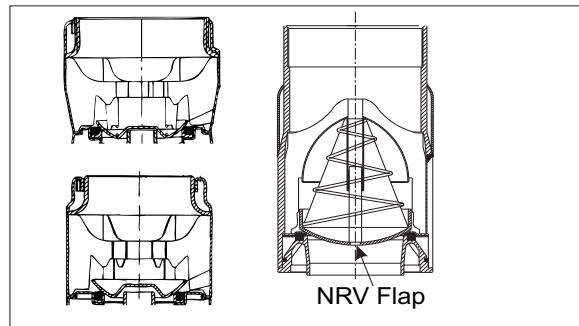


Non-Return Valve (NRV)

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

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

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



Stop Ring and Spacing Washer

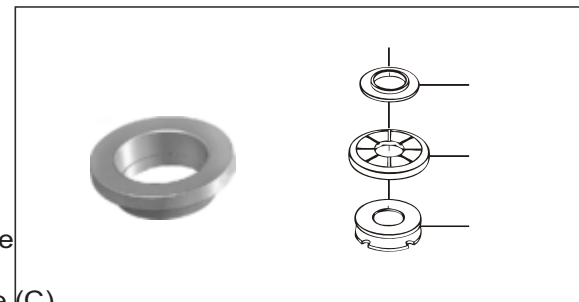
The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.

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

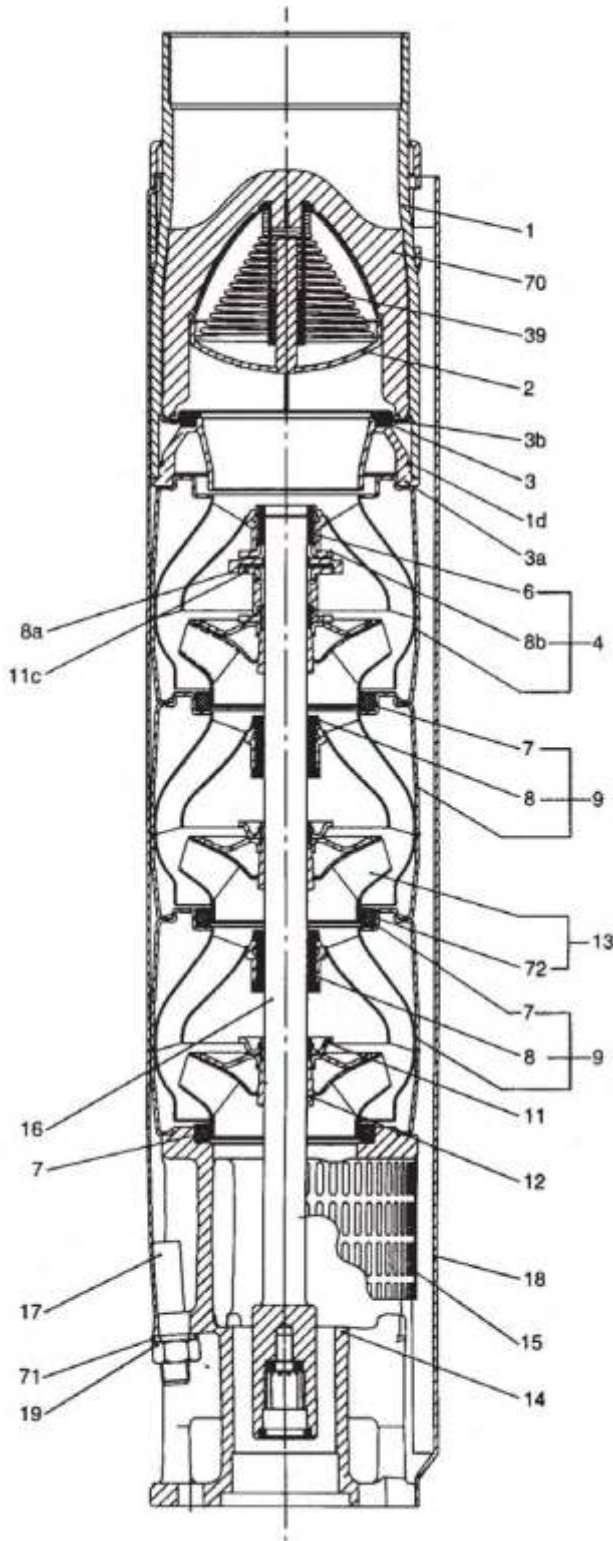
Example: LFP 30 and LFP 46

The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber).

The rotating part (B) is fitted above the cullet split cone (C).



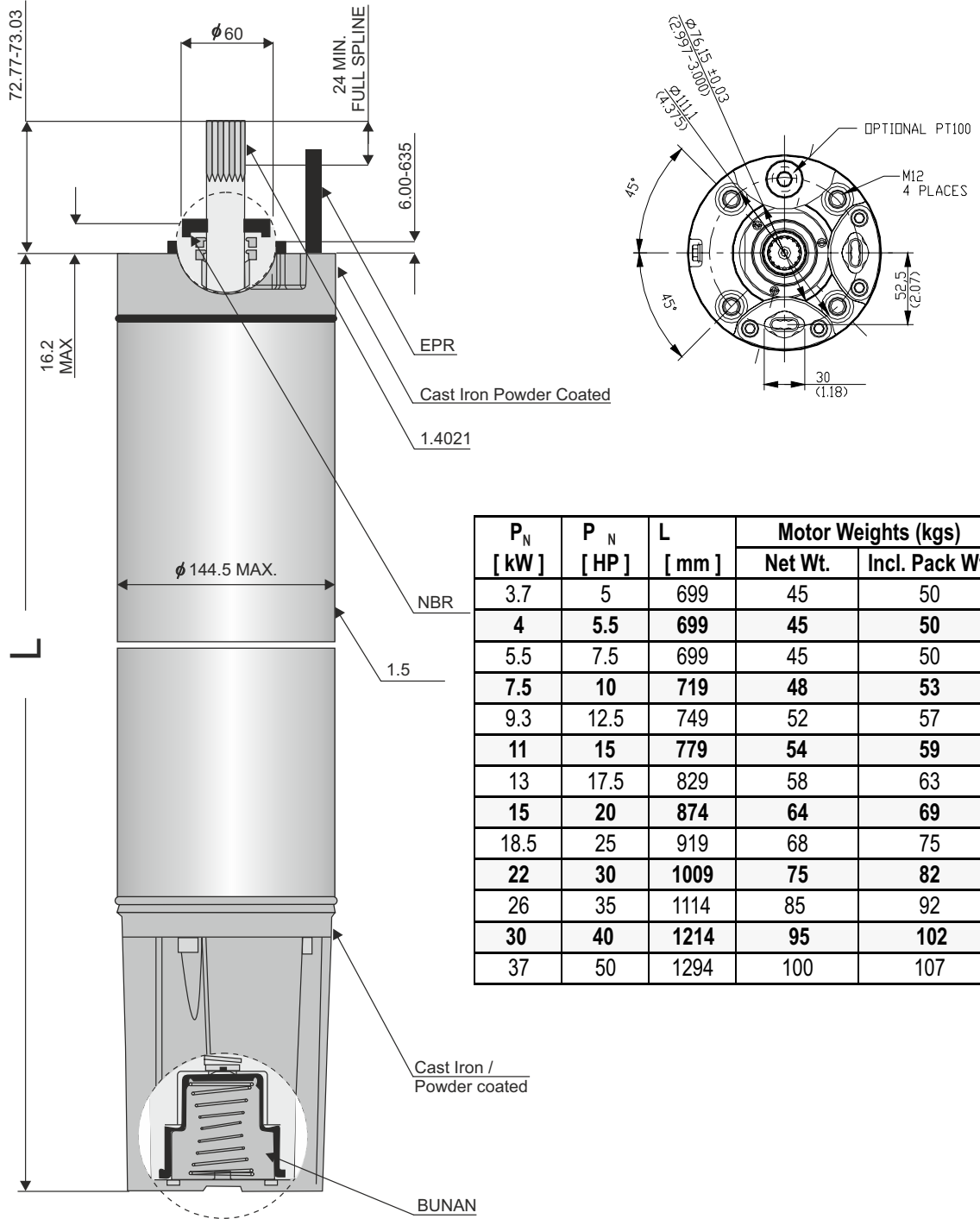
SUBMERSIBLE PUMP MODEL LFP 77



| Pos. | COMPONENTS | MATERIAL | STANDARD | N-VERSION |
|------|---------------------------|--------------------------------------|----------|-----------|
| 1 | VALVE CASING | STAINLESS STEEL | 304 | 316 |
| 1d | O-RING | NBR | | |
| 2 | VALVE CUP | STAINLESS STEEL | 304 | 316 |
| 3 | VALVE SEAT | STAINLESS STEEL | 304 | 316 |
| 3a | LOWER VALVE SEAT RETAINER | STAINLESS STEEL | 304 | 316 |
| 3b | UPPER VALVE SEAT RETAINER | STAINLESS STEEL | 304 | 316 |
| 4 | TOP CHAMBER | STAINLESS STEEL | 304 | 316 |
| 6 | UPPER BEARING | STAINLESS STEEL NBR | 304 | 316 |
| 7 | NECKING | NBR/PPS | | |
| 8 | BEARING | NBR | | |
| 8a | WASHER FOR STOP RING | CABRON/GRAPHITE HY22 IN PTFE MASS | | |
| 8b | STOP RING | STAINLESS STEEL | 316 | 316 |
| 9 | CHAMBER | STAINLESS STEEL | 304 | 316 |
| 11 | SPLIT CONE NUT | STAINLESS STEEL | 304 | 316 |
| 11c | NUT FOR STOP RING | STAINLESS STEEL | 316 | 316 |
| 12 | SPLIT CONE | STAINLESS STEEL | 304 | 316 |
| 13 | IMPELLER | STAINLESS STEEL | 304 | 316 |
| 14 | SUCTION INTERCONNECTOR | STAINLESS STEEL | 304 | 316 |
| 15 | STRAINER | STAINLESS STEEL | 304 | 316 |
| 16 | SHAFT COMPLETE | STAINLESS STEEL | 431 | 316 |
| 17 | STRAP | STAINLESS STEEL | 304 | 316 |
| 18 | CABLE GUARD | STAINLESS STEEL | 304 | 316 |
| 19 | NUT FOR STRAP | STAINLESS STEEL | 304 | 316 |
| 39 | SPRING FOR VALVE CUP | STAINLESS STEEL | 304 | 316 |
| 70 | VALVE GUIDE | STAINLESS STEEL | 304 | 316 |
| 71 | WASHER | STAINLESS STEEL | 316 | 316 |
| 72 | WEAR RING | STAINLESS STEEL | 304 | 316 |

6" Rewindable LFP150 : 4 – 37 kW / 5.5 - 50 HP Thrust Rating : 15500 - 27500

LFP 6" Outline



| P _N [kW] | P _N [HP] | L [mm] | Motor Weights (kgs) | |
|--------------------------|--------------------------|-------------|---------------------|----------------|
| | | | Net Wt. | Incl. Pack Wt. |
| 3.7 | 5 | 699 | 45 | 50 |
| 4 | 5.5 | 699 | 45 | 50 |
| 5.5 | 7.5 | 699 | 45 | 50 |
| 7.5 | 10 | 719 | 48 | 53 |
| 9.3 | 12.5 | 749 | 52 | 57 |
| 11 | 15 | 779 | 54 | 59 |
| 13 | 17.5 | 829 | 58 | 63 |
| 15 | 20 | 874 | 64 | 69 |
| 18.5 | 25 | 919 | 68 | 75 |
| 22 | 30 | 1009 | 75 | 82 |
| 26 | 35 | 1114 | 85 | 92 |
| 30 | 40 | 1214 | 95 | 102 |
| 37 | 50 | 1294 | 100 | 107 |

Technical changes without notice

6" Rewindable LFP150 : 4 – 37 kW / 5.5 - 50 HP

Thrust Rating : 15500 - 27500

6" Rewindable Motor Product Information

Application

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

Other Product advantages:

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

Technical Specification

Standard Motor

- ✘ 6" NEMA – flange with Studs (M 12).
- ✘ Protection: IP 68
- ✘ Starts per hour: max. 20
- ✘ Installation position: vertical / horizontal
- ✘ Motor Lead in 4m length
- ✘ Voltage tolerance: +6% / -10%
(Standard: 415 + 6% = 440V, 380 – 10% = 342V)
- ✘ Motor protection : Select Thermal overload
- ✘ Standard motor with Taping winding insulation for max. ambient of 30° with a min.
Cooling flow :
3.7 kW - 15 kW / 5 HP - 20 HP V = 20 cm/s
18.5 kW - 37 kW / 25 HP - 50 HP V = 50 cm/s

Optional

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

Material

| Part | Material AISI |
|---|------------------------------|
| | 304 (Standard) |
| Shell | (SS AISI 304) |
| Endbell, Diaphragm cover | Cast Iron / powder coated |
| Housing thrust bearing | Cast Iron / powder coated |
| Seals | BUNA N |
| Seal Cover | (SS AISI 304) |
| Shaft Seal | SiC |
| Shaft end 4kW – 22kW / 5.5 HP - 30 HP | (SS AISI 410) |
| Shaft end 26kW – 37kW / 35 HP - 50 HP | (SS AISI 410) |
| Diaphragm | EPDM |
| Lead | EPR |

Technical changes without notice

6" Rewindable LFP150 : 4 – 37 kW / 5.5 - 50 HP

Thrust Rating : 15500 - 27500

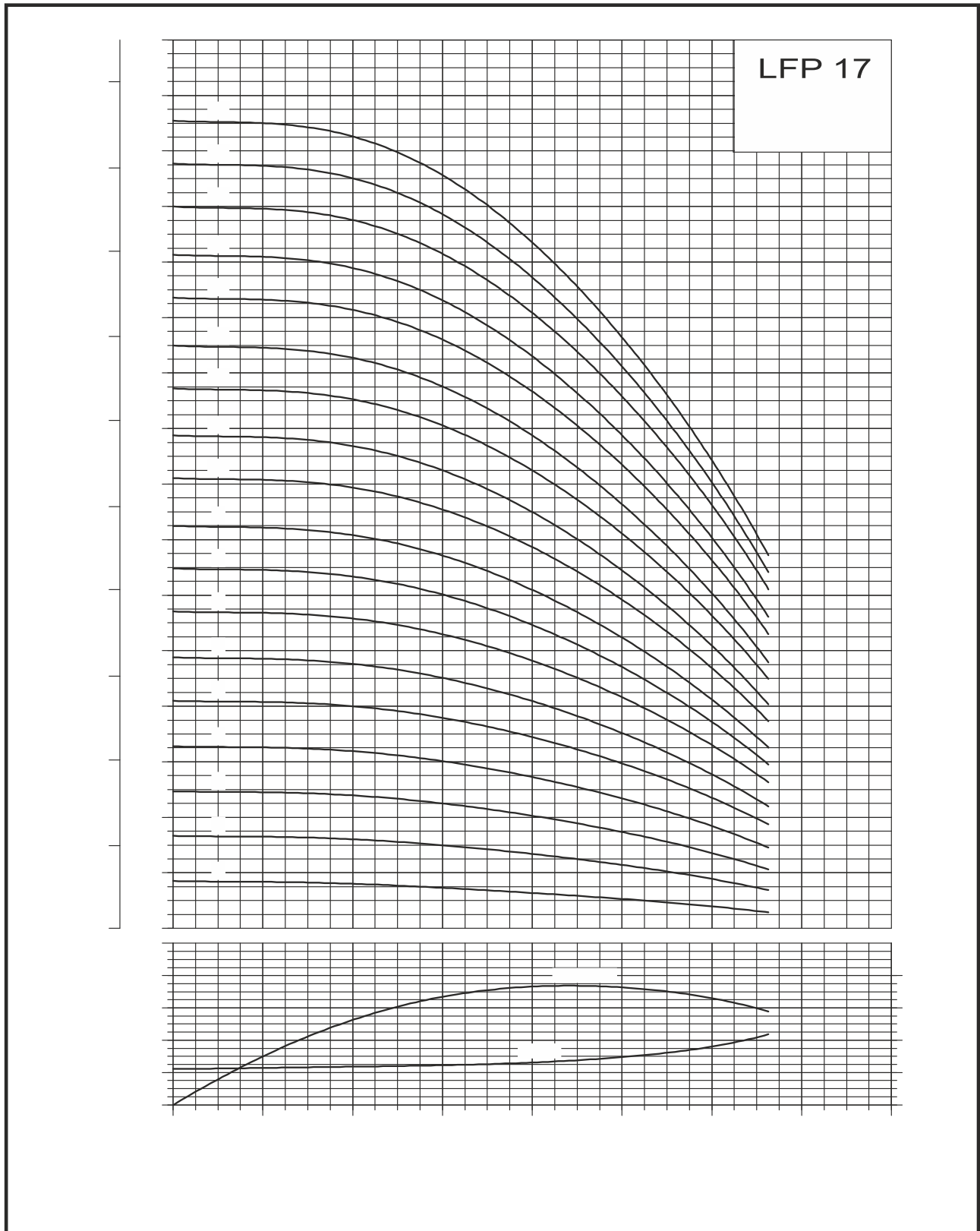
LFP 150 - Rewindable Motor Performance Data 60 Hz

| P _N HP/kW | P _{max} [kW] | Thrust F [N] | U _N [V] | n _{max} [min ⁻¹] | I _{max} [A] | I _A [A] | η _{max} (Eff.) [%] at % load | | | cos φ _{max} (Pf.) at % load | | | T _{max} [Nm] | T _A [Nm] |
|-------------------------|--------------------------|-----------------|-----------------------|--|-------------------------|-----------------------|--|------|-------|---|------|------|--------------------------|------------------------|
| | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | | |
| | | | | | | | 5.5 / 4 | 4,6 | 15500 | 230 | 3520 | 21,0 | | |
| | | | 380 | 3530 | 13,3 | 61 | 0,66 | 0,72 | 0,77 | 0,51 | 0,63 | 0,71 | 12,4 | 15,0 |
| | | | 460 | 3520 | 10,1 | 51 | 0,70 | 0,76 | 0,78 | 0,56 | 0,67 | 0,75 | 12,5 | 15,3 |
| 7.5 / 5,5 | 6,3 | 15500 | 230 | 3490 | 26,1 | 106 | 0,74 | 0,78 | 0,78 | 0,61 | 0,73 | 0,80 | 17,3 | 15,9 |
| | | | 380 | 3480 | 15,4 | 61 | 0,76 | 0,78 | 0,78 | 0,64 | 0,75 | 0,81 | 17,3 | 15,0 |
| | | | 460 | 3480 | 12,9 | 51 | 0,74 | 0,77 | 0,77 | 0,65 | 0,76 | 0,82 | 17,3 | 15,1 |
| 10 / 7,5 | 8,6 | 15500 | 230 | 3490 | 35,9 | 146 | 0,75 | 0,79 | 0,79 | 0,58 | 0,71 | 0,78 | 23,6 | 22,4 |
| | | | 380 | 3480 | 20,8 | 81 | 0,76 | 0,79 | 0,79 | 0,64 | 0,75 | 0,81 | 23,6 | 20,2 |
| | | | 460 | 3470 | 17,2 | 64 | 0,75 | 0,78 | 0,78 | 0,67 | 0,77 | 0,82 | 23,7 | 19,4 |
| 12.5 / 9,3 | 10,7 | 15500 | 230 | 3490 | 44,4 | 183 | 0,75 | 0,79 | 0,79 | 0,59 | 0,71 | 0,78 | 29,3 | 28,9 |
| | | | 380 | 3470 | 25,6 | 100 | 0,77 | 0,80 | 0,80 | 0,64 | 0,75 | 0,81 | 29,4 | 25,9 |
| | | | 460 | 3460 | 20,8 | 78 | 0,78 | 0,80 | 0,80 | 0,67 | 0,78 | 0,82 | 29,4 | 24,4 |
| 15 / 11 | 12,7 | 15500 | 230 | 3490 | 51,2 | 220 | 0,77 | 0,80 | 0,81 | 0,60 | 0,72 | 0,79 | 34,6 | 35,6 |
| | | | 380 | 3490 | 30,3 | 129 | 0,77 | 0,81 | 0,81 | 0,62 | 0,74 | 0,80 | 34,5 | 34,3 |
| | | | 460 | 3480 | 25,0 | 98 | 0,78 | 0,81 | 0,80 | 0,68 | 0,77 | 0,83 | 34,7 | 31,5 |
| 17.5 / 13 | 15,0 | 15500 | 230 | 3500 | 62,4 | 288 | 0,76 | 0,80 | 0,81 | 0,55 | 0,68 | 0,76 | 40,7 | 50,5 |
| | | | 380 | 3500 | 36,3 | 164 | 0,77 | 0,81 | 0,82 | 0,59 | 0,71 | 0,78 | 40,7 | 47,2 |
| | | | 460 | 3490 | 29,0 | 125 | 0,78 | 0,81 | 0,81 | 0,65 | 0,76 | 0,82 | 40,9 | 43,3 |
| 20 / 15 | 17,3 | 15500 | 230 | 3500 | 65,9 | 325 | 0,80 | 0,83 | 0,83 | 0,63 | 0,74 | 0,81 | 47,0 | 59,5 |
| | | | 380 | 3490 | 39,1 | 188 | 0,81 | 0,83 | 0,83 | 0,66 | 0,77 | 0,82 | 47,2 | 56,5 |
| | | | 460 | 3490 | 32,1 | 151 | 0,80 | 0,83 | 0,83 | 0,68 | 0,78 | 0,84 | 47,1 | 55,6 |
| 25 / 18,5 | 21,3 | 15500 | 230 | 3490 | 85,4 | 402 | 0,77 | 0,81 | 0,82 | 0,59 | 0,71 | 0,78 | 58,1 | 81,8 |
| | | | 380 | 3490 | 52,5 | 249 | 0,76 | 0,80 | 0,81 | 0,58 | 0,70 | 0,77 | 58,1 | 83,6 |
| | | | 460 | 3480 | 40,6 | 184 | 0,80 | 0,82 | 0,82 | 0,65 | 0,76 | 0,81 | 58,4 | 74,5 |
| 30 / 22 | 25,3 | 15500 | 230 | 3510 | 100,2 | 520 | 0,82 | 0,84 | 0,84 | 0,65 | 0,74 | 0,77 | 68,8 | 96,6 |
| | | | 380 | 3510 | 59,9 | 309 | 0,82 | 0,84 | 0,84 | 0,67 | 0,75 | 0,78 | 68,8 | 94,9 |
| | | | 460 | 3500 | 47,1 | 232 | 0,83 | 0,84 | 0,84 | 0,72 | 0,79 | 0,82 | 69,1 | 85,8 |
| 35 / 26 | 29,9 | 15500 | 230 | 3510 | 118,3 | 657 | 0,83 | 0,85 | 0,85 | 0,63 | 0,72 | 0,76 | 81,3 | 135,0 |
| | | | 380 | 3500 | 67,5 | 360 | 0,83 | 0,85 | 0,85 | 0,62 | 0,74 | 0,81 | 81,6 | 121,4 |
| | | | 460 | 3500 | 55,7 | 287 | 0,83 | 0,85 | 0,85 | 0,64 | 0,76 | 0,84 | 81,6 | 117,2 |
| 40 / 30 | 34,5 | 27500 | 230 | 3510 | 135,7 | 758 | 0,78 | 0,82 | 0,83 | 0,58 | 0,71 | 0,78 | 93,8 | 139,6 |
| | | | 380 | 3510 | 79,6 | 436 | 0,79 | 0,83 | 0,84 | 0,62 | 0,74 | 0,81 | 93,9 | 132,9 |
| | | | 460 | 3500 | 64,4 | 346 | 0,81 | 0,84 | 0,84 | 0,64 | 0,75 | 0,82 | 94,0 | 126,4 |
| 50 / 37 | 42,6 | 27500 | 230 | 3510 | 135,7 | 758 | 0,78 | 0,82 | 0,83 | 0,58 | 0,71 | 0,78 | 93,8 | 139,6 |
| | | | 380 | 3510 | 102,8 | 567 | 0,77 | 0,81 | 0,82 | 0,59 | 0,71 | 0,78 | 115,8 | 193,6 |
| | | | 460 | 3500 | 79,1 | 430 | 0,82 | 0,84 | 0,85 | 0,63 | 0,75 | 0,81 | 116,0 | 177,8 |

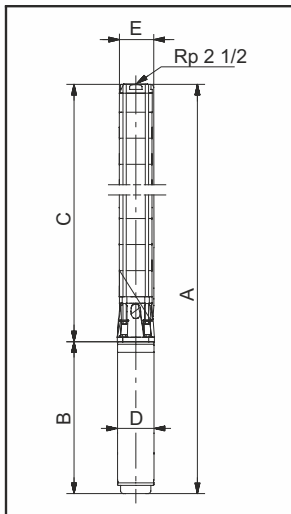
Technical changes without notice



Performance Curve - LFP 17



Dimensions and Weights

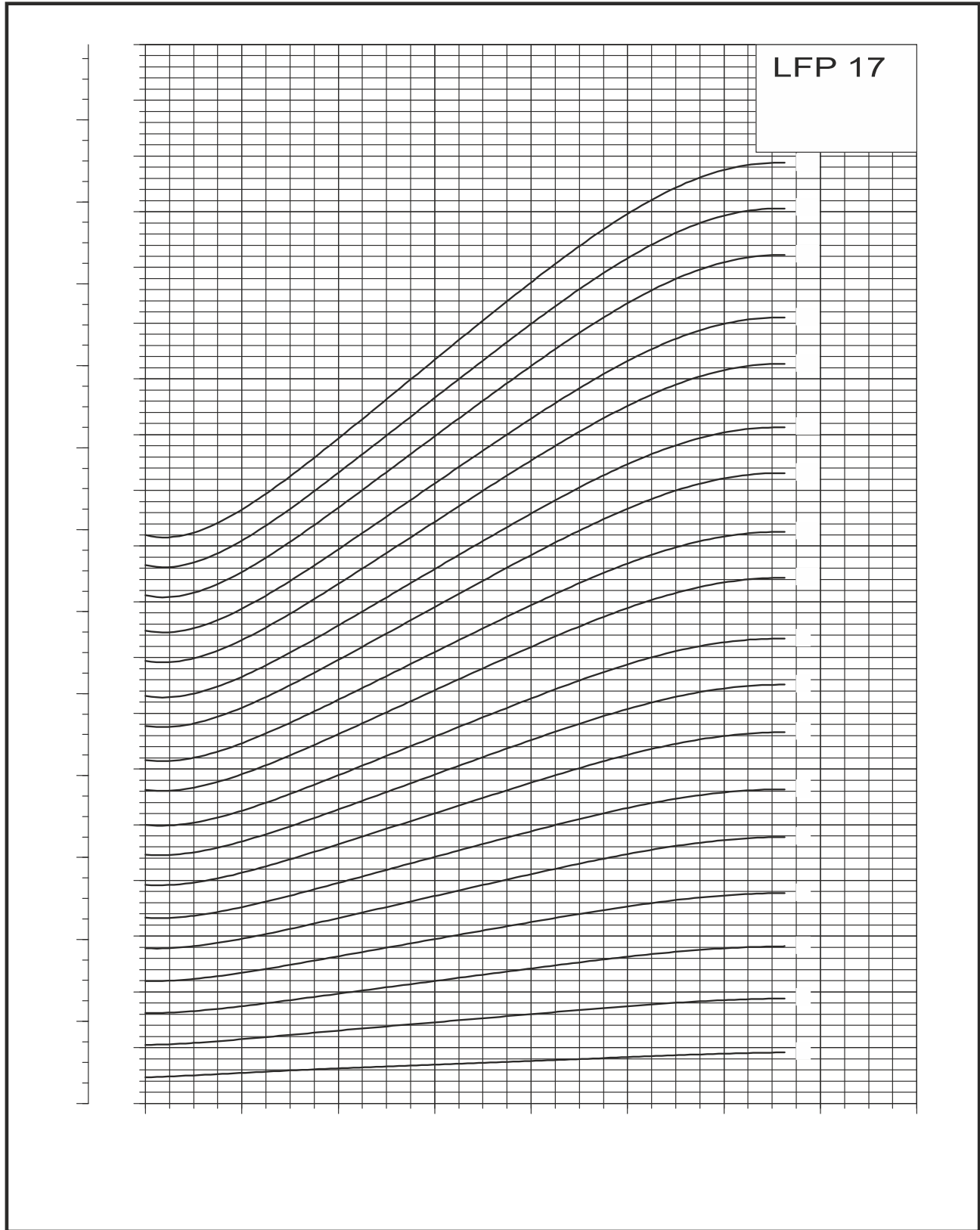


LFP17-33 to LFP17-39 are mounted in sleeve for Rp 3 connection.

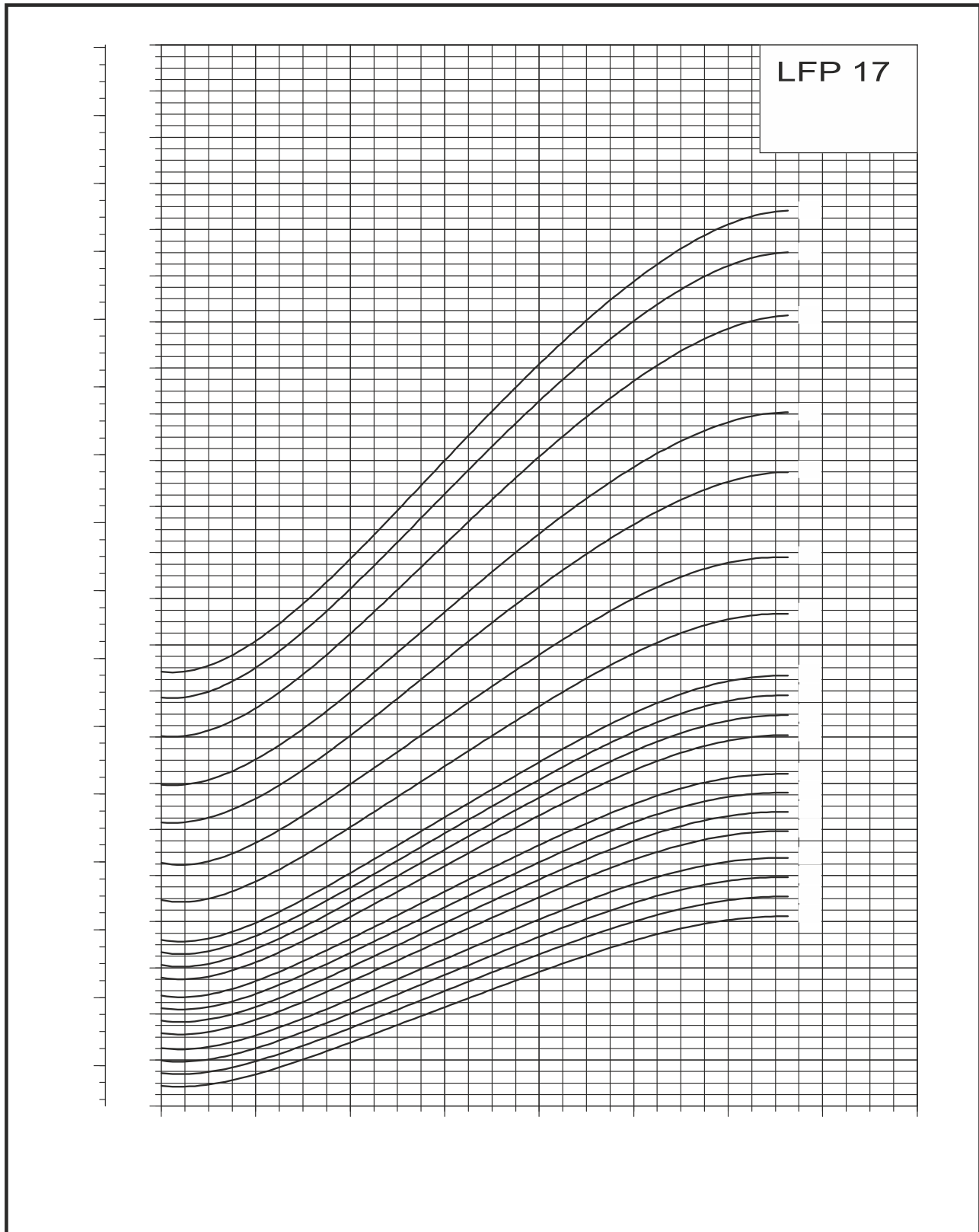
| Pump type | Motor | | Dimensions [mm] | | | | | Net weight [kg] |
|-----------|--------------|---------------|-----------------|------|------|-----|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | C | B | A | D | E* | |
| LFP17-1 | LFP4/1.5 | 1.1 / 1.5 | 314 | 413 | 727 | 95 | 131 | 18 |
| LFP17-2 | LFP4/3.0 | 2.2 / 3.0 | 374 | 454 | 828 | 95 | 131 | 22 |
| LFP17-3 | LFP4/4.0 | 3.0 / 4.0 | 435 | 494 | 929 | 95 | 131 | 24 |
| LFP17-4 | LFP4/5.5 | 4 / 5.5 | 495 | 574 | 1069 | 95 | 131 | 29 |
| LFP17-5 | LFP4/7.5 | 5.5 / 7.5 | 556 | 674 | 1230 | 95 | 131 | 35 |
| LFP17-6 | LFP4/7.5 | 5.5 / 7.5 | 616 | 674 | 1290 | 95 | 131 | 36 |
| LFP17-7 | LFP4/10 | 7.5 / 10 | 677 | 773 | 1450 | 95 | 131 | 43 |
| LFP17-8 | LFP4/10 | 7.5 / 10 | 737 | 773 | 1510 | 95 | 131 | 44 |
| LFP17-9 | LFP4/10 | 7.5 / 10 | 798 | 773 | 1571 | 95 | 131 | 45 |
| LFP17-5 | LFP6/7.5 | 5.5 / 7.5 | 572 | 544 | 1116 | 138 | 142 | 47 |
| LFP17-6 | LFP6/7.5 | 5.5 / 7.5 | 632 | 544 | 1176 | 138 | 142 | 48 |
| LFP17-7 | LFP6/10 | 7.5 / 10 | 693 | 574 | 1267 | 138 | 142 | 50 |
| LFP17-8 | LFP6/10 | 7.5 / 10 | 753 | 574 | 1327 | 138 | 142 | 51 |
| LFP17-9 | LFP6/10 | 7.5 / 10 | 814 | 574 | 1388 | 138 | 142 | 52 |
| LFP17-10 | LFP6/12.5 | 9.2 / 12.5 | 874 | 604 | 1478 | 138 | 142 | 59 |
| LFP17-11 | LFP6/12.5 | 9.2 / 12.5 | 935 | 604 | 1539 | 138 | 142 | 60 |
| LFP17-12 | LFP6/15 | 11 / 15 | 995 | 634 | 1629 | 138 | 142 | 64 |
| LFP17-13 | LFP6/15 | 11 / 15 | 1056 | 634 | 1690 | 138 | 142 | 65 |
| LFP17-14 | LFP6/17.5 | 13 / 17.5 | 1116 | 664 | 1780 | 138 | 142 | 69 |
| LFP17-15 | LFP6/17.5 | 13 / 17.5 | 1177 | 664 | 1841 | 138 | 142 | 71 |
| LFP17-16 | LFP6/20 | 15 / 20 | 1237 | 699 | 1936 | 138 | 142 | 76 |
| LFP17-17 | LFP6/20 | 15 / 20 | 1298 | 699 | 1997 | 138 | 142 | 77 |
| LFP17-18 | LFP6/20 | 15 / 20 | 1358 | 699 | 2057 | 138 | 142 | 78 |
| LFP17-19 | LFP6/25 | 18.5 / 25 | 1419 | 754 | 2173 | 138 | 142 | 85 |
| LFP17-20 | LFP6/25 | 18.5 / 25 | 1479 | 754 | 2233 | 138 | 142 | 87 |
| LFP17-21 | LFP6/25 | 18.5 / 25 | 1540 | 754 | 2294 | 138 | 142 | 88 |
| LFP17-22 | LFP6/25 | 18.5 / 25 | 1600 | 754 | 2354 | 138 | 142 | 89 |
| LFP17-23 | LFP6/30 | 22 / 30 | 1661 | 814 | 2475 | 138 | 142 | 96 |
| LFP17-24 | LFP6/30 | 22 / 30 | 1721 | 814 | 2535 | 138 | 142 | 97 |
| LFP17-25 | LFP6/30 | 22 / 30 | 1782 | 814 | 2596 | 138 | 142 | 99 |
| LFP17-26 | LFP6/30 | 22 / 30 | 1842 | 814 | 2656 | 138 | 142 | 100 |
| LFP17-27 | LFP6/35 | 26 / 35 | 1903 | 874 | 2777 | 138 | 142 | 106 |
| LFP17-28 | LFP6/35 | 26 / 35 | 1963 | 874 | 2837 | 138 | 142 | 107 |
| LFP17-29 | LFP6/35 | 26 / 35 | 2024 | 874 | 2898 | 138 | 142 | 108 |
| LFP17-30 | LFP6/35 | 26 / 35 | 2084 | 874 | 2958 | 138 | 142 | 110 |
| LFP17-33 | LFP6/40 | 30 / 40 | 2513 | 944 | 3457 | 138 | 175 | 155 |
| LFP17-36 | LFP6/40 | 30 / 40 | 2694 | 944 | 3638 | 138 | 175 | 160 |
| LFP17-39 | LFP6/50 | 37 / 50 | 2876 | 1405 | 4281 | 138 | 175 | 203 |
| LFP17-42 | LFP8/50 | 37 / 50 | 3006 | 1160 | 4166 | 192 | 192 | 250 |
| LFP17-45 | LFP8/60 | 45 / 60 | 3188 | 1270 | 4458 | 192 | 192 | 276 |
| LFP17-48 | LFP8/60 | 45 / 60 | 3369 | 1270 | 4639 | 192 | 192 | 281 |
| LFP17-50 | LFP8/60 | 45 / 60 | 3490 | 1270 | 4760 | 192 | 192 | 285 |

* Maximum diameter of pump with one motor cable.
Also available 45 kW in 6" joining.

Power Curve - LFP 17

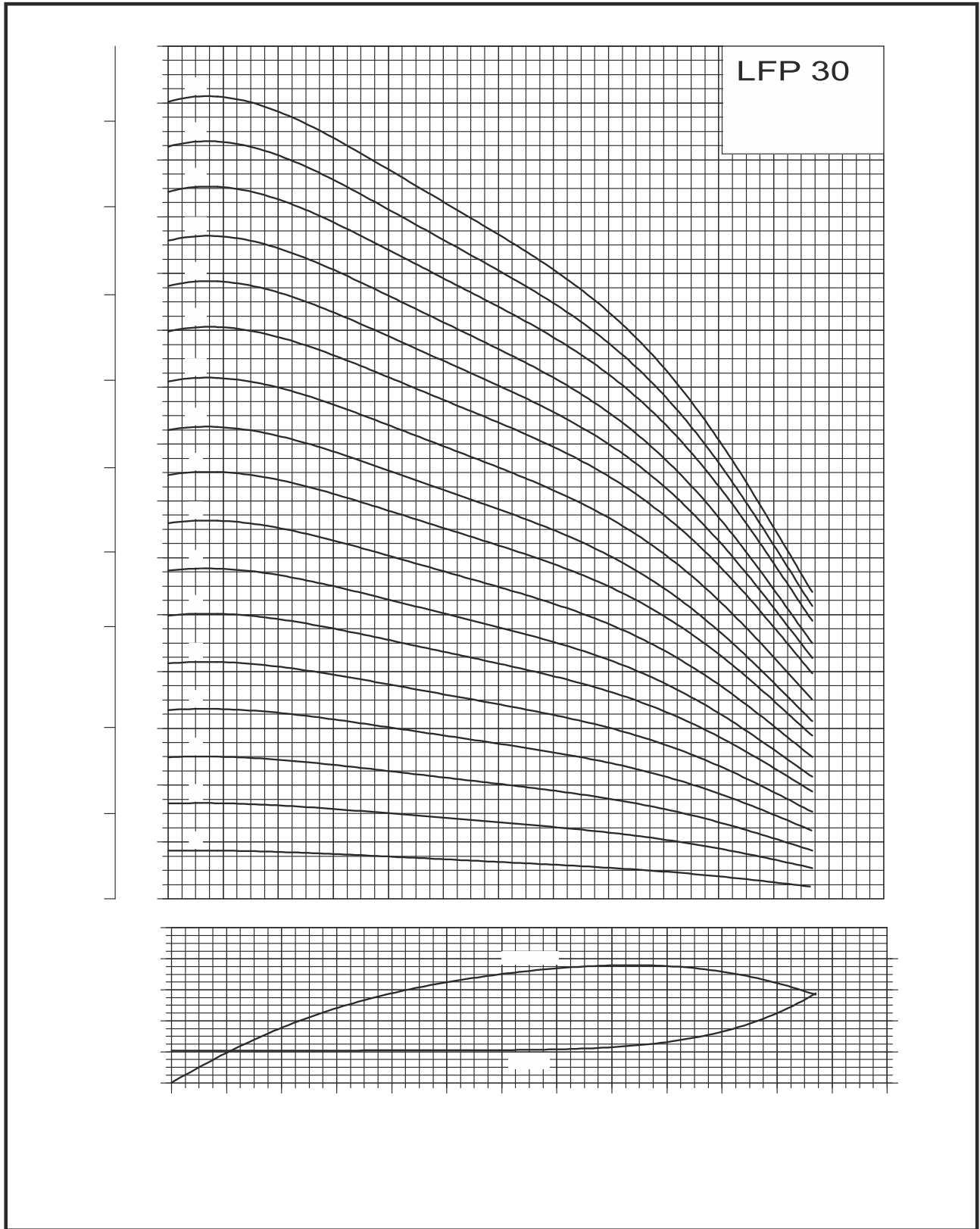


Power Curve - LFP 17



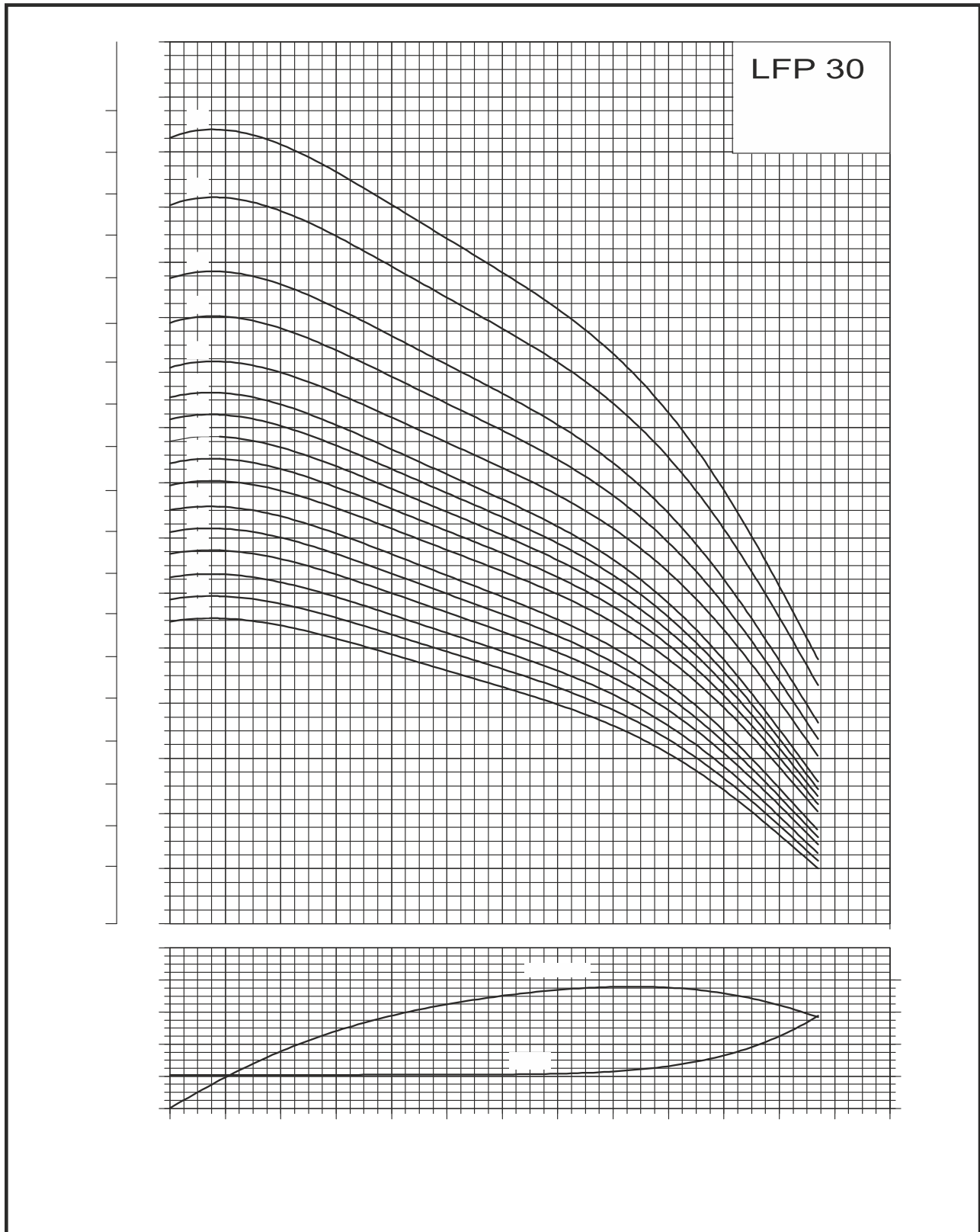
Performance Curve - LFP 30

www.lifeforcepumps.com

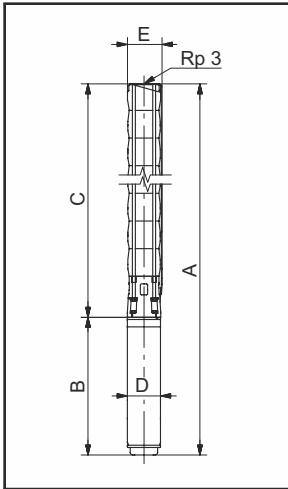


Performance Curve - LFP 30

www.lifeforcepumps.com



Dimensions and Weights



LFP30-24 to LFP30-39 are Mounted in sleeve for Rp 3 connection.

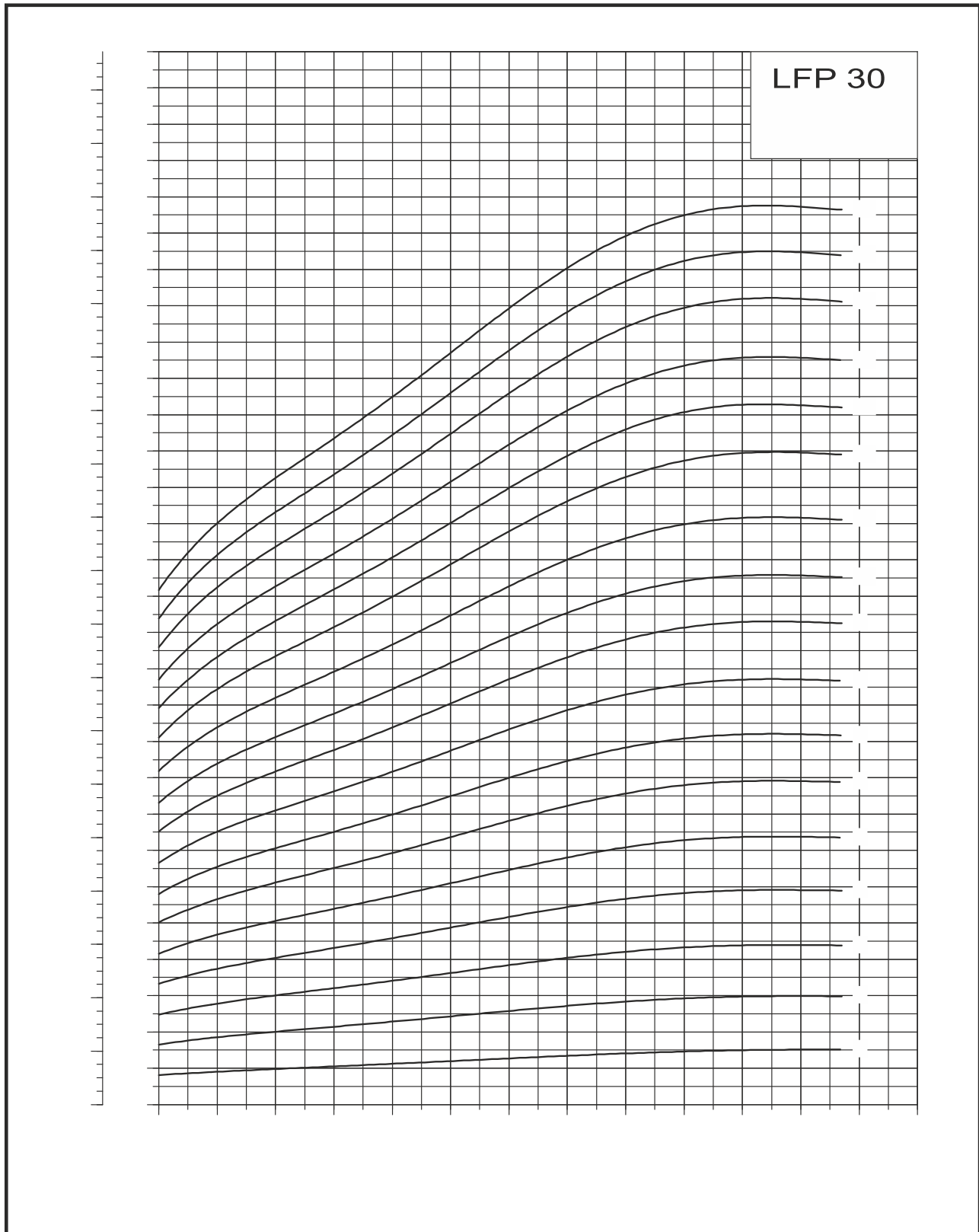
| Pump type | Motor | | Dimensions [mm] | | | | | | Net weight [kg] |
|-----------|--------------|---------------|-----------------|------|------|-----|-----|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | C | B | A | D | E* | E** | |
| LFP3 0-1 | LFP4/2.2 | 1.5 / 2.2 | 349 | 413 | 762 | 95 | 131 | | 21 |
| LFP3 0-2 | LFP4/4.0 | 3.0 / 4.0 | 445 | 494 | 939 | 95 | 131 | | 24 |
| LFP30 -3 | LFP4/5.5 | 4.0 / 5.5 | 541 | 574 | 1115 | 95 | 131 | | 29 |
| LFP30 -4 | LFP4/7.5 | 5.5 / 7.5 | 637 | 674 | 1311 | 95 | 131 | | 36 |
| LFP30-5 | LFP4/10 | 7.5 / 10 | 733 | 773 | 1506 | 95 | 131 | | 43 |
| LFP30-4 | LFP6/7.5 | 5.5 / 7.5 | 653 | 544 | 1197 | 138 | 142 | 142 | 47 |
| LFP30-5 | LFP6/10 | 7.5 / 10 | 749 | 574 | 1323 | 138 | 142 | 142 | 50 |
| LFP30-6 | LFP6/12.5 | 9.2 / 12.5 | 845 | 604 | 1449 | 138 | 142 | 142 | 57 |
| LFP30-7 | LFP6/12.5 | 9.2 / 12.5 | 941 | 604 | 1545 | 138 | 142 | 142 | 59 |
| LFP3 0-8 | LFP6/15 | 11 / 15 | 1037 | 634 | 1671 | 138 | 142 | 142 | 63 |
| LFP30-9 | LFP6/17.5 | 13 / 17.5 | 1133 | 664 | 1797 | 138 | 142 | 142 | 68 |
| LFP30-10 | LFP6/17.5 | 13 / 17.5 | 1229 | 664 | 1893 | 138 | 142 | 142 | 70 |
| LFP30-11 | LFP6/20 | 15 / 20 | 1325 | 699 | 2024 | 138 | 142 | 142 | 75 |
| LFP30-12 | LFP6/25 | 18.5 / 25 | 1421 | 754 | 2175 | 138 | 142 | 142 | 83 |
| LFP30-13 | LFP6/25 | 18.5 / 25 | 1517 | 754 | 2271 | 138 | 142 | 142 | 84 |
| LFP30-14 | LFP6/25 | 18.5 / 25 | 1613 | 754 | 2367 | 138 | 142 | 142 | 86 |
| LFP3 0-15 | LFP6/30 | 22 / 30 | 1709 | 814 | 2523 | 138 | 142 | 142 | 94 |
| LFP30-16 | LFP6/30 | 22 / 30 | 1805 | 814 | 2619 | 138 | 142 | 142 | 95 |
| LFP30-17 | LFP6/30 | 22 / 30 | 1901 | 814 | 2715 | 138 | 142 | 142 | 97 |
| LFP30-18 | LFP6/35 | 26 / 35 | 1997 | 874 | 2871 | 138 | 142 | 142 | 104 |
| LFP30-19 | LFP6/35 | 26 / 35 | 2093 | 874 | 2967 | 138 | 142 | 142 | 106 |
| LFP30-20 | LFP6/35 | 26 / 35 | 2189 | 874 | 3063 | 138 | 142 | 142 | 108 |
| LFP30-21 | LFP6/40 | 30 / 40 | 2285 | 944 | 3229 | 138 | 144 | 145 | 117 |
| LFP30-22 | LFP6/40 | 30 / 40 | 2381 | 944 | 3225 | 138 | 144 | 145 | 119 |
| LFP30-23 | LFP6/40 | 30 / 40 | 2477 | 944 | 3421 | 138 | 144 | 145 | 121 |
| LFP30-24 | LFP6/50 | 37 / 50 | 2573 | 1425 | 3998 | 144 | 142 | 142 | 170 |
| LFP30-25 | LFP6/50 | 37 / 50 | 2669 | 1425 | 4094 | 144 | 142 | 142 | 171 |
| LFP30-26 | LFP6/50 | 37 / 50 | 2765 | 1425 | 4190 | 144 | 142 | 142 | 173 |
| LFP30-27 | LFP6/50 | 37 / 50 | 2861 | 1425 | 4286 | 144 | 142 | 142 | 175 |
| LFP30-28 | LFP6/50 | 37 / 50 | 2957 | 1425 | 4282 | 144 | 142 | 142 | 176 |
| LFP30-29 | LFP8/60 | 45 / 60 | 3249 | 1270 | 4519 | 192 | 192 | 192 | 280 |
| LFP30-31 | LFP8/60 | 45 / 60 | 3441 | 1270 | 4711 | 192 | 192 | 192 | 285 |
| LFP30-33 | LFP8/60 | 45 / 60 | 3633 | 1270 | 4903 | 192 | 192 | 192 | 290 |
| LFP30-36 | LFP8/75 | 55 / 75 | 3921 | 1350 | 5271 | 192 | 192 | 192 | 131 |
| LFP30-39 | LFP8/75 | 55 / 75 | 4209 | 1350 | 5559 | 192 | 192 | 192 | 322 |

* Maximum diameter of pump with one motor cable.

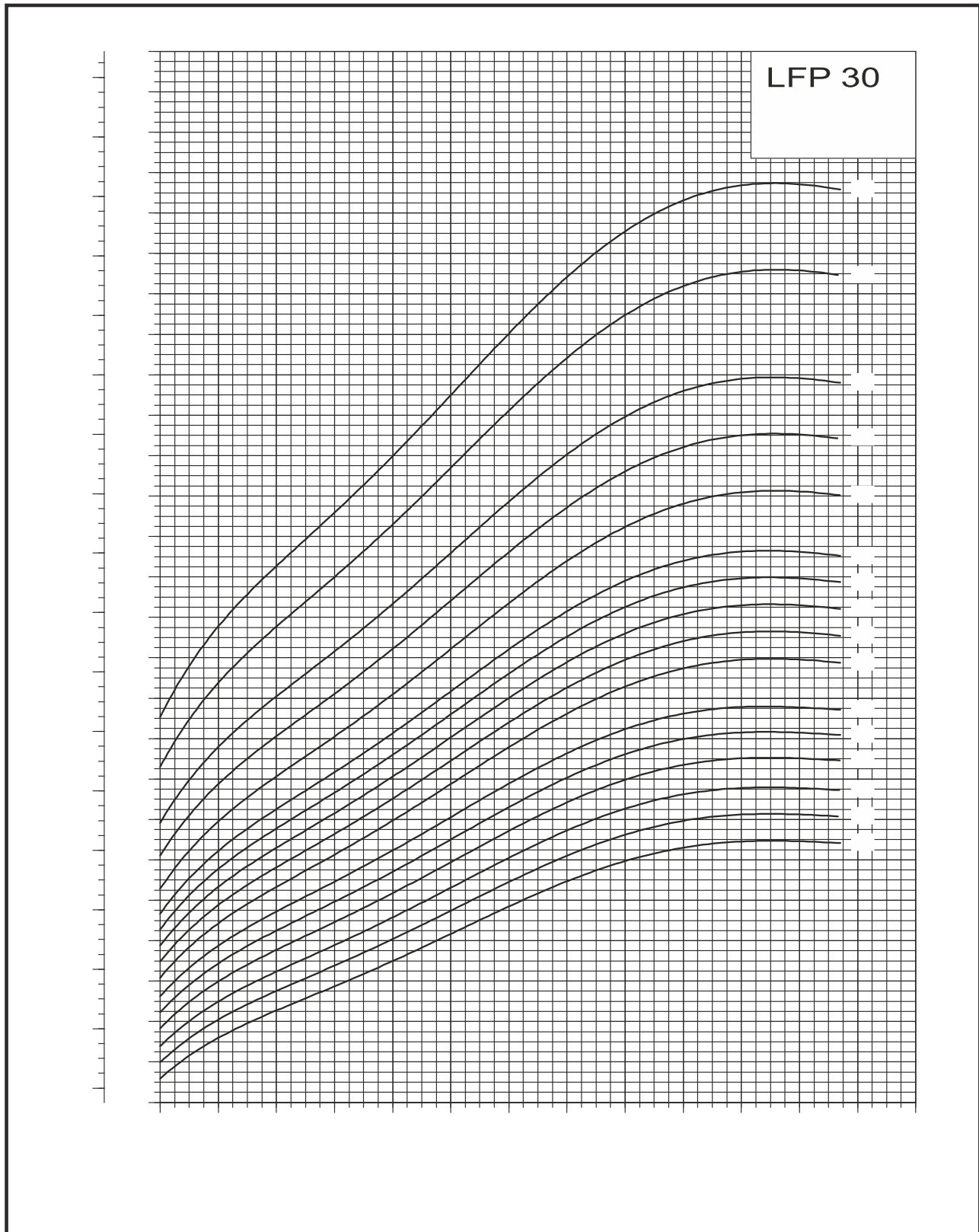
** Maximum diameter of pump with two motor cable.

Also available 45 kW in 6" joining.

Power Curve - LFP 30

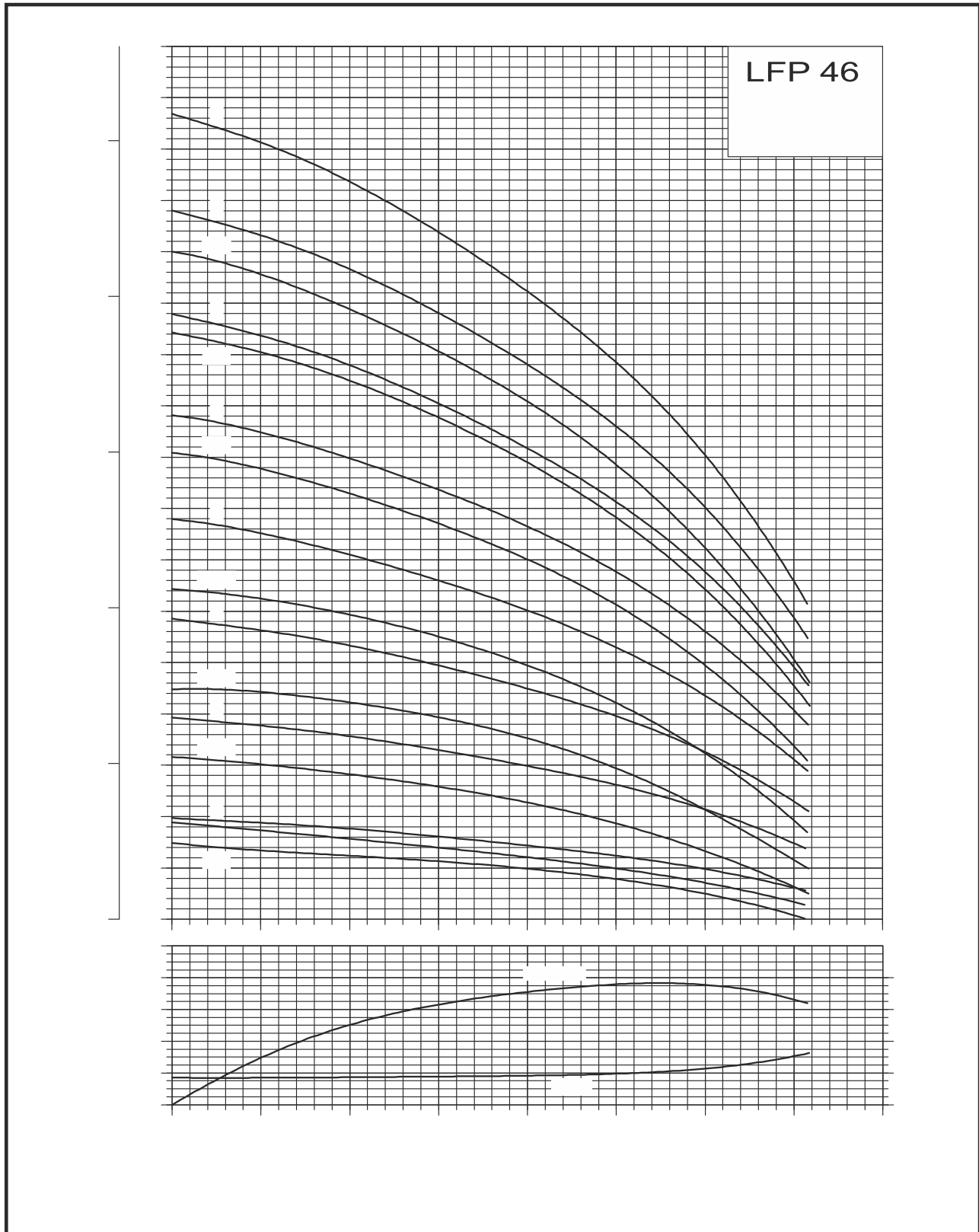


Power Curve - LFP 30

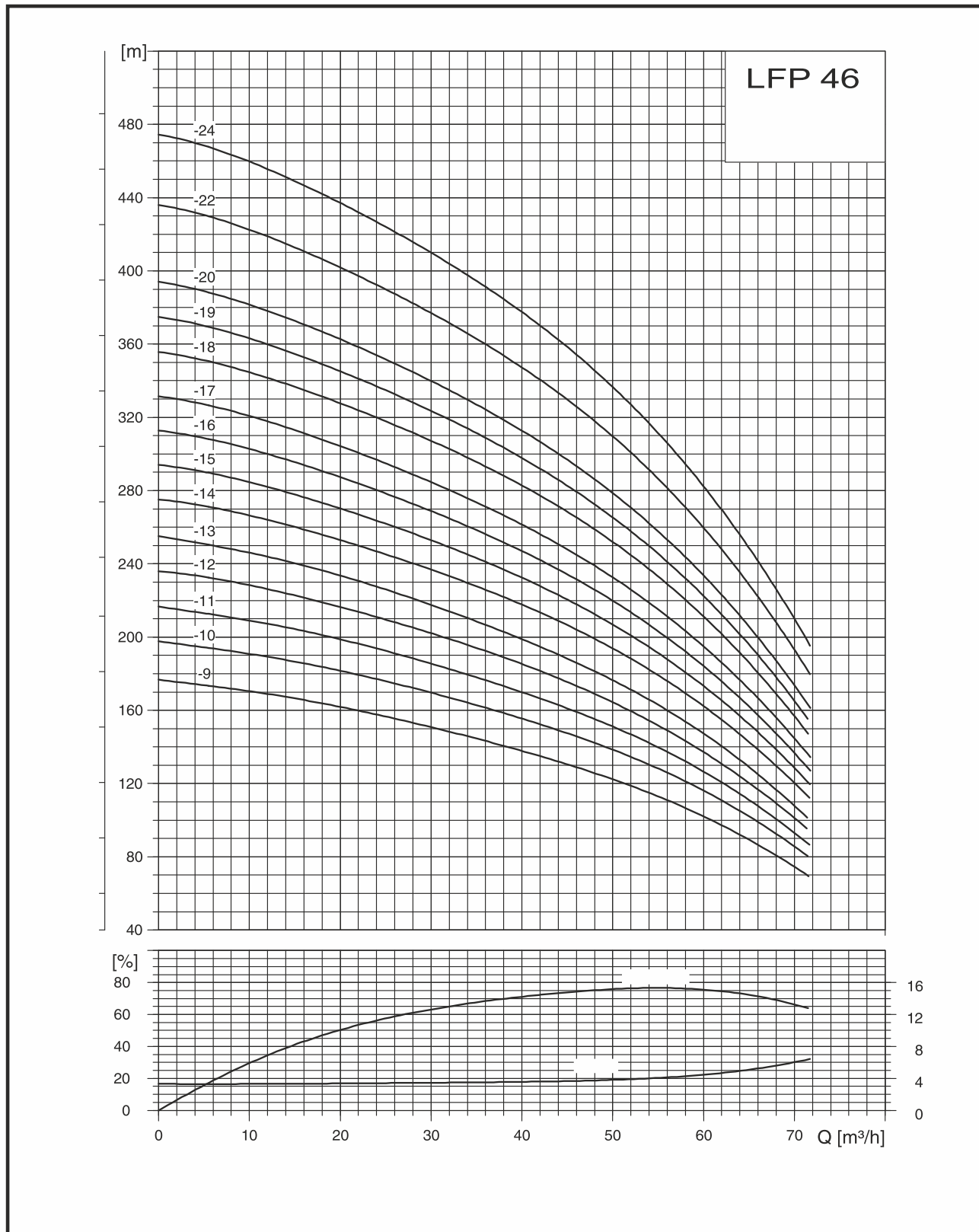


Performance Curve - LFP 46

www.lifeforcepumps.com

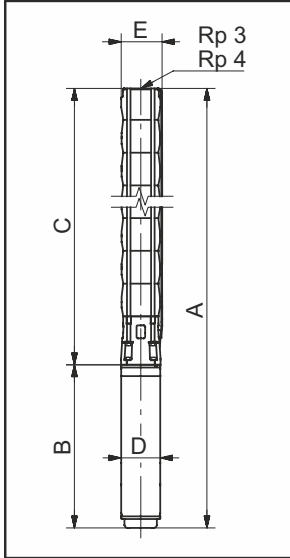


Performance Curve - LFP 46



Technical Data Curve - LFP 46

Dimensions and Weights



LFP 46-20 to LFP 46-24 are mounted in sleeve for Rp 4 connection.

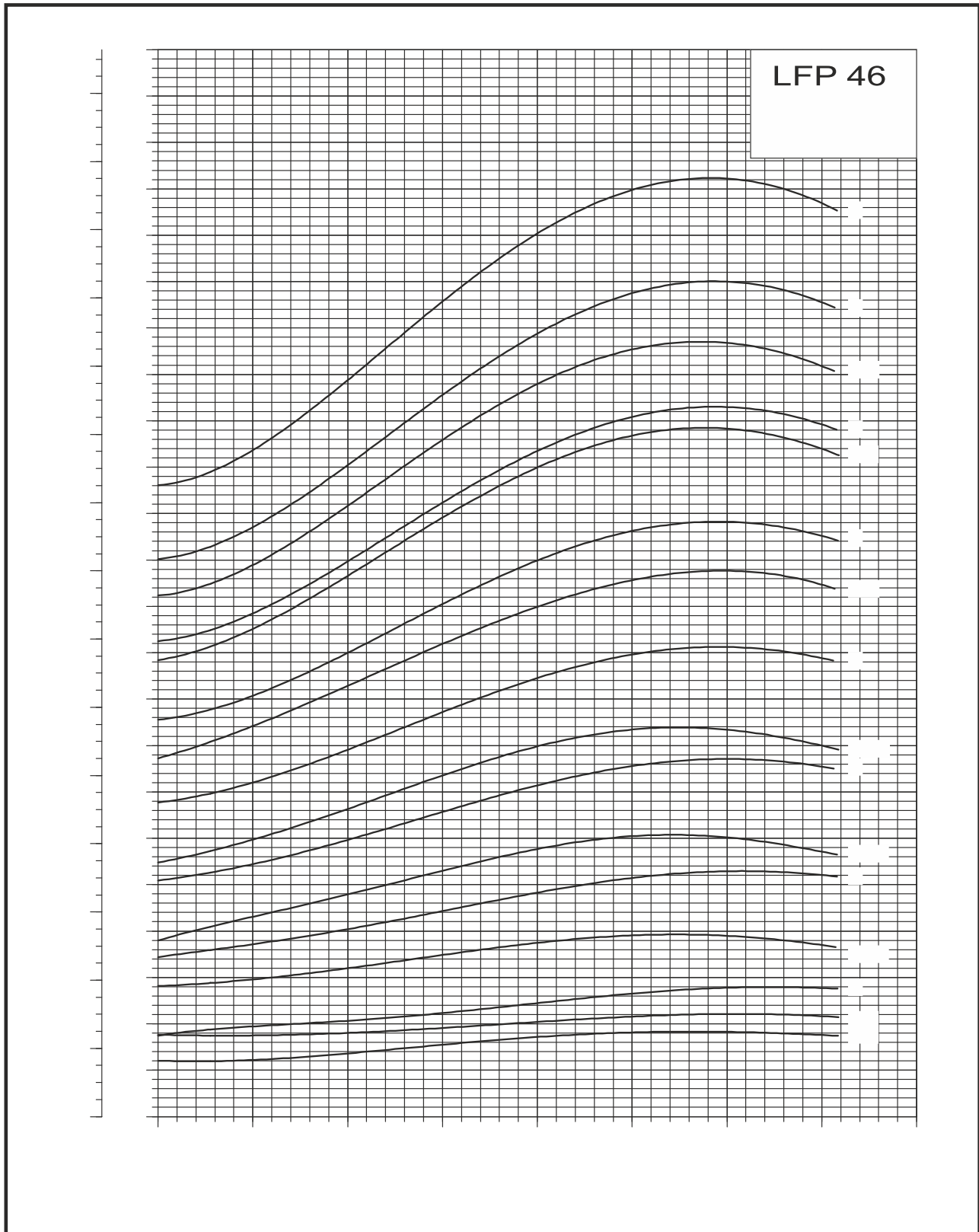
| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|-----------|--------------|---------------|------------------|------|-----|-----|------------------|------|-----|-----|------|------|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 3" Connection | | | | Rp 4" Connection | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP46-1B | LFP4/2.2 | 1.5 / 2.2 | 780 | 367 | 146 | 148 | 783 | 370 | 146 | 148 | 413 | 95 | 20 |
| LFP46-1A | LFP4/3.0 | 2.2 / 3.0 | 821 | 367 | 146 | 148 | 824 | 370 | 146 | 148 | 454 | 95 | 22 |
| LFP46-1 | LFP4/4.0 | 3.0 / 4.0 | 861 | 367 | 146 | 148 | 864 | 370 | 146 | 148 | 494 | 95 | 23 |
| LFP46-2AB | LFP4/5.5 | 4.0 / 5.5 | 974 | 480 | 146 | 148 | 977 | 483 | 146 | 148 | 494 | 95 | 25 |
| LFP46-2 | LFP4/7.5 | 5.5 / 7.5 | 1154 | 480 | 146 | 148 | 1157 | 483 | 146 | 148 | 674 | 95 | 34 |
| LFP46-3BB | LFP4/7.5 | 5.5 / 7.5 | 1267 | 593 | 146 | 148 | 1267 | 593 | 146 | 148 | 674 | 95 | 37 |
| LFP46-3 | LFP4/10 | 7.5 / 10 | 1367 | 593 | 149 | 152 | 1370 | 596 | 149 | 152 | 774 | 95 | 42 |
| LFP46-3 | LFP6/10 | 7.5 / 10 | 1183 | 609 | 149 | 152 | 1186 | 612 | 149 | 152 | 574 | 138 | 49 |
| LFP46-4BC | LFP6/10 | 7.5 / 10 | 1296 | 722 | 149 | 152 | 1299 | 725 | 149 | 152 | 574 | 138 | 52 |
| LFP46-4 | LFP6 12.5 | 9.2/12.5 | 1326 | 722 | 149 | 152 | 1329 | 725 | 149 | 152 | 604 | 138 | 57 |
| LFP46-5C | LFP6/15 | 11 / 15 | 1469 | 835 | 149 | 152 | 1472 | 838 | 149 | 152 | 634 | 138 | 63 |
| LFP46-5 | LFP6/17.5 | 13 / 17.5 | 1499 | 835 | 149 | 152 | 1502 | 838 | 149 | 152 | 664 | 138 | 66 |
| LFP46-6A | LFP6/17.5 | 13 / 17.5 | 1612 | 948 | 149 | 152 | 1615 | 951 | 149 | 152 | 664 | 138 | 68 |
| LFP46-6 | LFP6/20 | 15 / 20 | 1647 | 948 | 149 | 152 | 1650 | 951 | 149 | 152 | 699 | 138 | 72 |
| LFP46-7C | LFP6/20 | 15 / 20 | 1760 | 1061 | 149 | 152 | 1763 | 1064 | 149 | 152 | 699 | 138 | 75 |
| LFP46-7 | LFP6/25 | 18.5 / 25 | 1815 | 1061 | 149 | 152 | 1818 | 1064 | 149 | 152 | 754 | 138 | 80 |
| LFP46-8 | LFP6/25 | 18.5 / 25 | 1928 | 1174 | 149 | 152 | 1931 | 1177 | 149 | 152 | 754 | 138 | 73 |
| LFP46-9 | LFP6/30 | 22 / 30 | 2101 | 1287 | 149 | 152 | 2104 | 1290 | 149 | 152 | 814 | 138 | 91 |
| LFP46-10 | LFP6/30 | 22 / 30 | 2214 | 1400 | 149 | 152 | 2217 | 1403 | 149 | 152 | 814 | 138 | 94 |
| LFP46-11 | LFP6/35 | 26 / 35 | 2387 | 1513 | 149 | 152 | 2390 | 1516 | 149 | 152 | 874 | 138 | 102 |
| LFP46-12 | LFP6/40 | 30 / 40 | 2570 | 1626 | 149 | 152 | 2573 | 1629 | 149 | 152 | 944 | 138 | 112 |
| LFP46-13 | LFP6/40 | 30 / 40 | 2683 | 1739 | 149 | 152 | 2686 | 1742 | 149 | 152 | 944 | 138 | 115 |
| LFP46-14 | LFP6/50 | 37 / 50 | 3357 | 1932 | 149 | 152 | 3360 | 1935 | 149 | 152 | 1425 | 138 | 168 |
| LFP46-15 | LFP6/50 | 37 / 50 | 3470 | 2045 | 149 | 152 | 3473 | 2048 | 149 | 152 | 1425 | 138 | 170 |
| LFP46-16 | LFP6/50 | 37 / 50 | 3583 | 2158 | 149 | 152 | 3586 | 2161 | 149 | 152 | 1425 | 138 | 173 |
| LFP46-17 | LFP6/50 | 37 / 50 | 3696 | 2271 | 149 | 152 | 3699 | 2274 | 149 | 152 | 1425 | 138 | 175 |
| LFP46-18 | LFP8/60 | 45 / 60 | 3603 | 2333 | 192 | 192 | 3606 | 2336 | 192 | 192 | 1270 | 192 | 228 |
| LFP46-19 | LFP8/60 | 45 / 60 | 3717 | 2446 | 192 | 192 | 3719 | 2449 | 192 | 192 | 1270 | 1925 | 231 |
| LFP46-20 | LFP8/60 | 45 / 60 | 3829 | 2559 | 192 | 192 | 3832 | 2562 | 192 | 192 | 1270 | 1925 | 234 |
| LFP46-22 | LFP8/75 | 55 / 75 | 4298 | 2948 | 193 | 195 | 4301 | 2951 | 193 | 195 | 1350 | 192 | 281 |
| LFP46-24 | LFP8/75 | 55 / 75 | | | | | 4527 | 3177 | 193 | 195 | 1350 | 192 | 287 |

* Maximum diameter of pump with one motor cable.

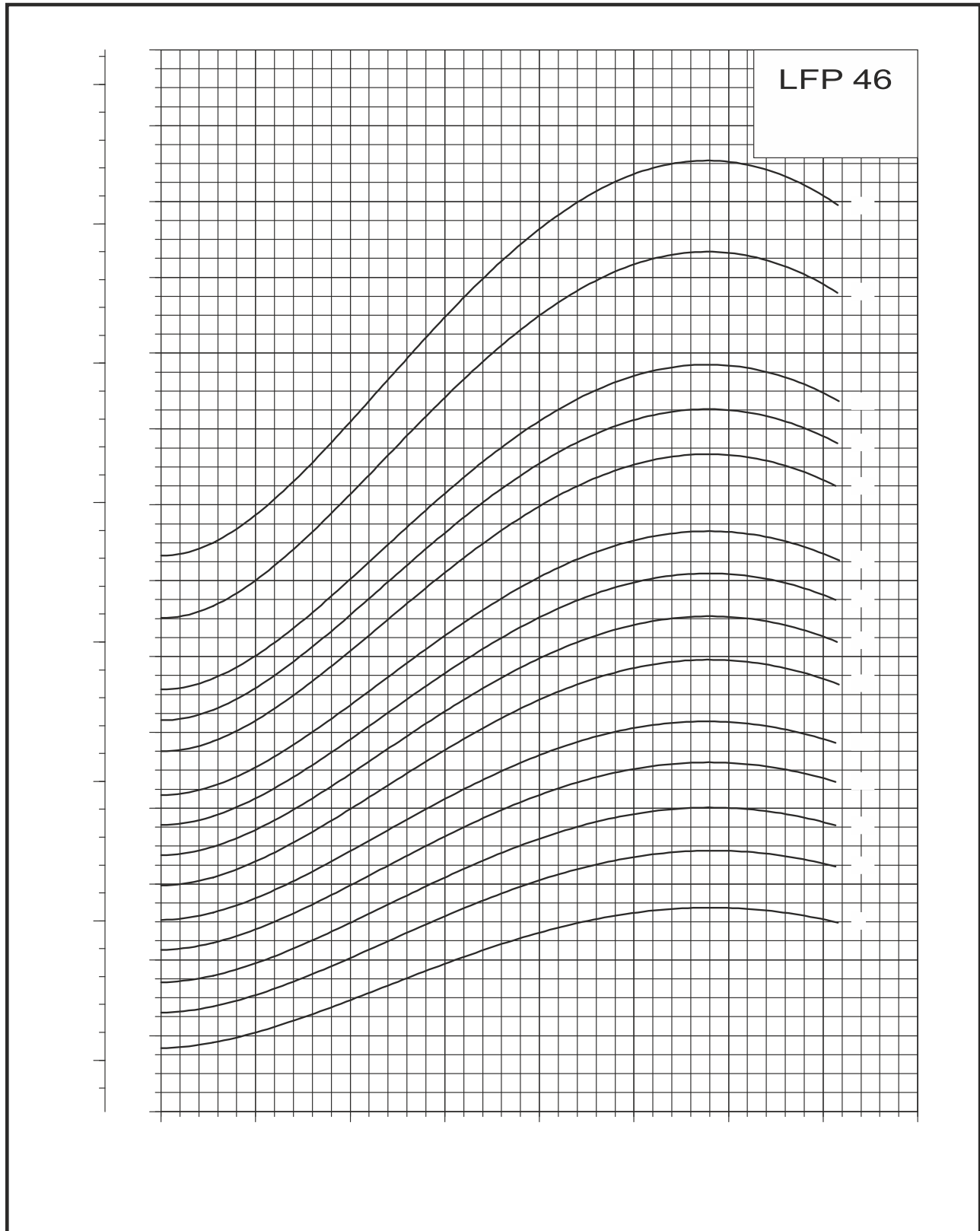
** Maximum diameter of pump with two motor cable.

Also available 45 kW in 6" joining.

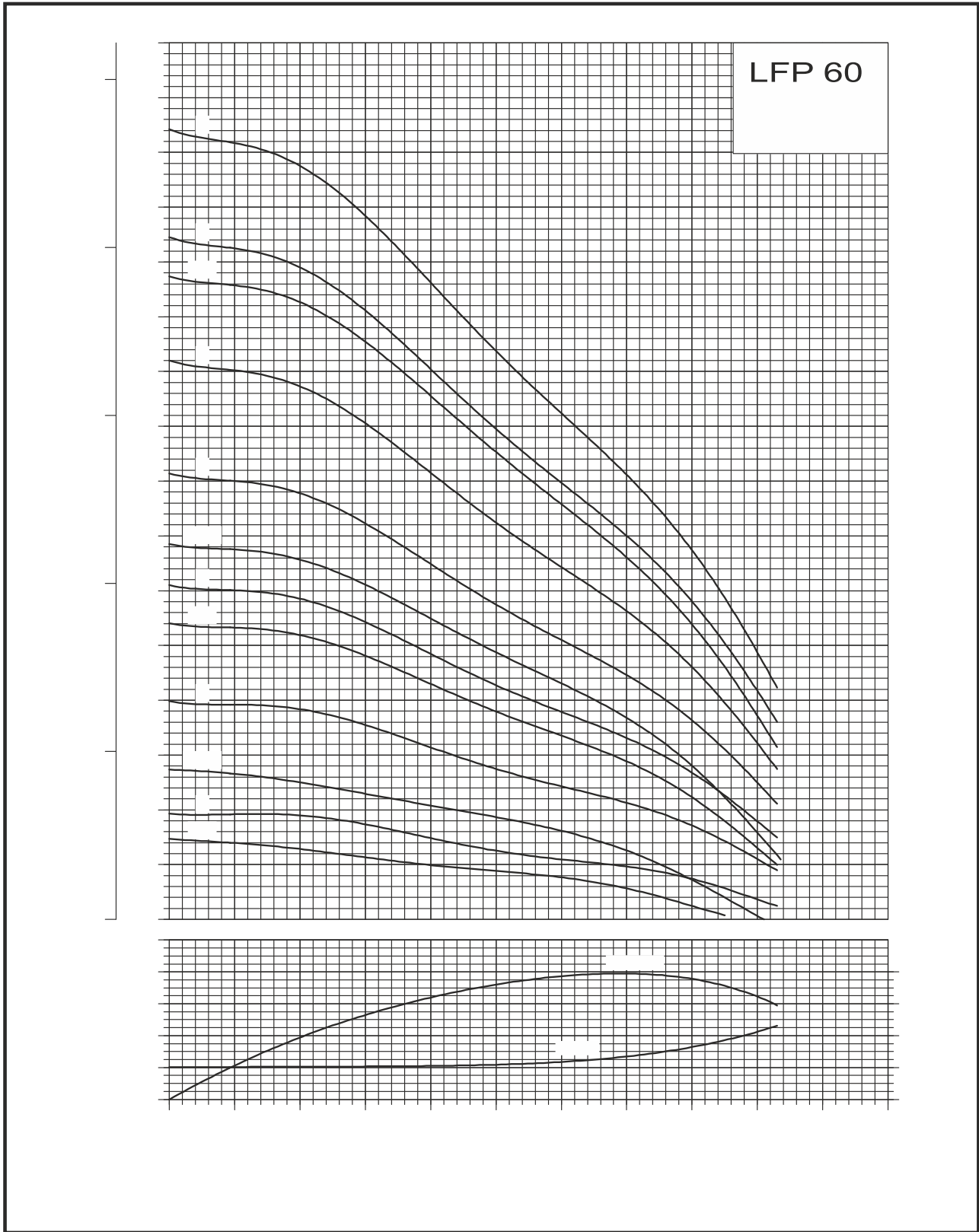
Power Curve - LFP 46



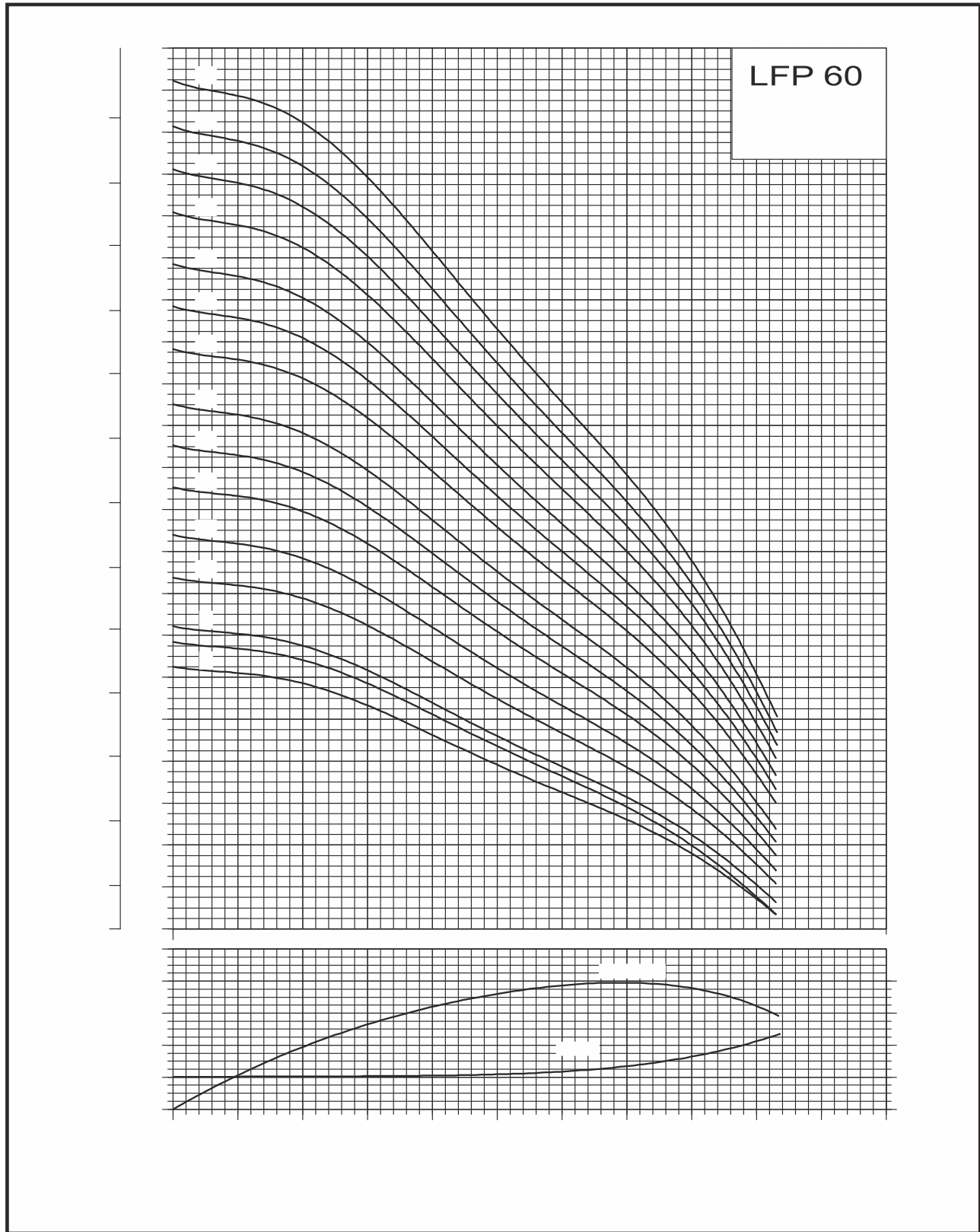
Power Curve - LFP 46



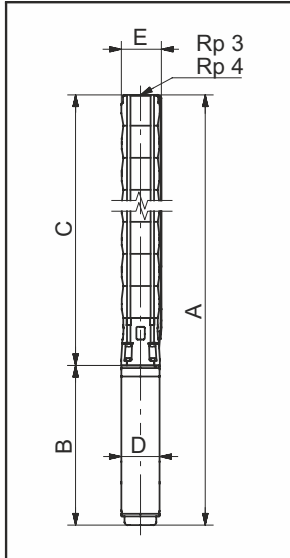
Performance Curve - LFP 60



Performance Curve - LFP 60



Dimensions and Weights



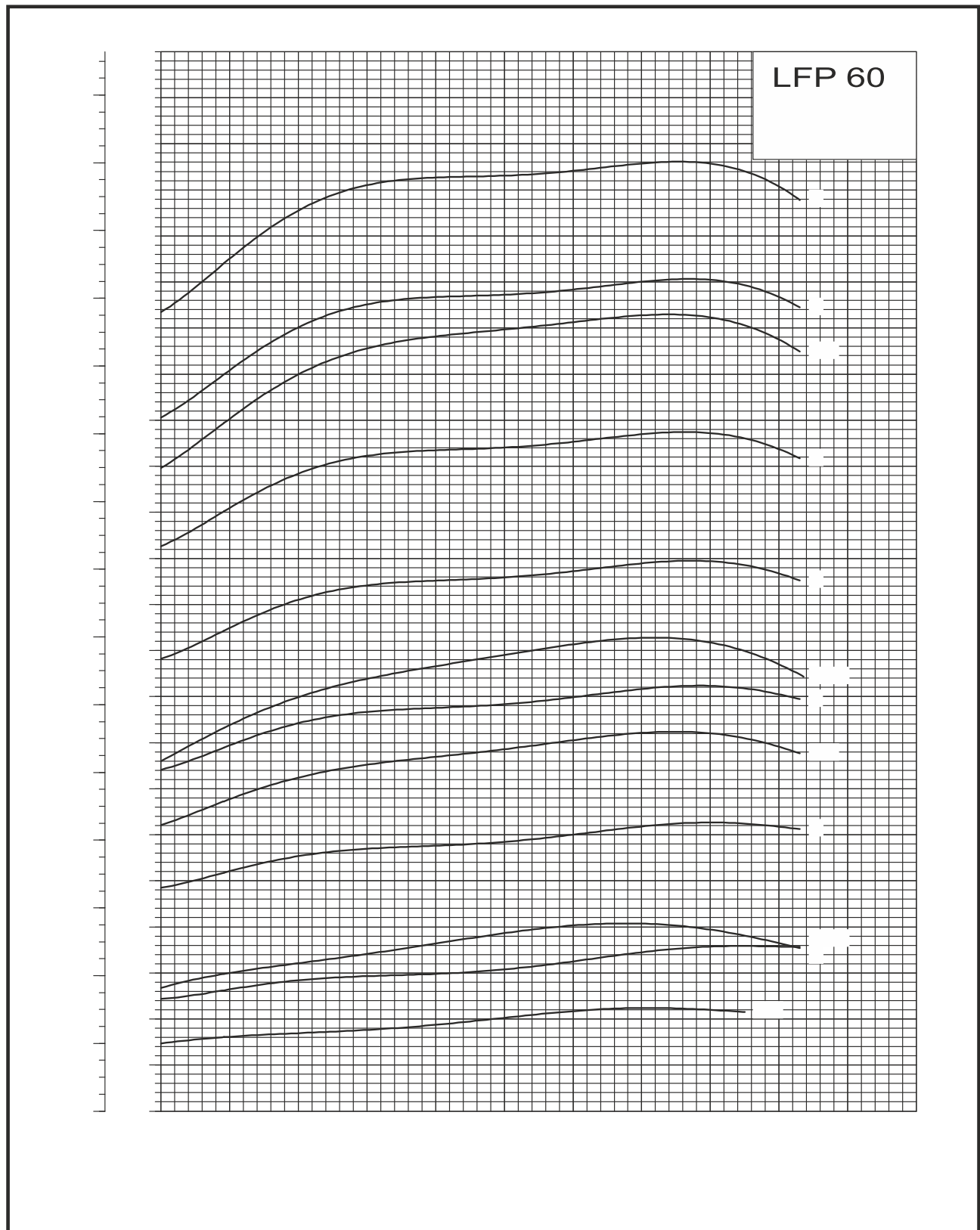
| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|------------|--------------|---------------|------------------|------|-----|-----|------------------|------|-----|-----|------|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 3" Connection | | | | Rp 4" Connection | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP60-1-B | LFP4/3.0 | 2.2 / 3.0 | 821 | 367 | 146 | 148 | 824 | 370 | 146 | 148 | 454 | 95 | 22 |
| LFP60-1-A | LFP4/5.5 | 4 / 5.5 | 864 | 367 | 146 | 148 | 864 | 370 | 146 | 148 | 494 | 95 | 23 |
| LFP60-1 | LFP4/5.5 | 4 / 5.5 | 941 | 367 | 146 | 148 | 944 | 370 | 146 | 148 | 574 | 95 | 27 |
| LFP60-2-BB | LFP4/5.5 | 4 / 5.5 | 974 | 480 | 146 | 148 | 977 | 483 | 146 | 148 | 494 | 95 | 25 |
| LFP60-2 | LFP4//7.5 | 5.5 / 7.5 | 1154 | 480 | 146 | 148 | 1157 | 483 | 146 | 148 | 674 | 95 | 34 |
| LFP60-3-A | LFP4/10 | 7.5 / 10 | 1367 | 593 | 146 | 148 | 1370 | 596 | 146 | 148 | 774 | 95 | 39 |
| LFP60-3-A | LFP6/10 | 7.5 / 10 | 1183 | 609 | 152 | 156 | 1186 | 612 | 152 | 156 | 574 | 138 | 49 |
| LFP60-3 | LFP 6/12.5 | 9.2 / 12.5 | 1213 | 609 | 152 | 156 | 1216 | 612 | 152 | 156 | 604 | 138 | 55 |
| LFP60-4-AA | LFP 6/12.5 | 9.2 / 12.5 | 1326 | 722 | 152 | 156 | 1329 | 725 | 152 | 156 | 604 | 138 | 57 |
| LFP60-4 | LFP 6/15 | 11 / 15 | 1356 | 722 | 152 | 156 | 1359 | 725 | 152 | 156 | 634 | 138 | 60 |
| LFP60-5 | LFP 6/17.5 | 13 / 17.5 | 1499 | 835 | 152 | 156 | 1502 | 838 | 152 | 156 | 664 | 138 | 66 |
| LFP60-6-B | LFP 6/20 | 15 / 20 | 1647 | 948 | 152 | 156 | 1650 | 951 | 152 | 156 | 699 | 138 | 72 |
| LFP60-6 | LFP 6/25 | 18.5 / 25 | 1702 | 948 | 152 | 156 | 1705 | 951 | 152 | 156 | 754 | 138 | 78 |
| LFP60-7 | LFP 6/25 | 18.5 / 25 | 1815 | 1061 | 152 | 156 | 1818 | 1064 | 152 | 156 | 754 | 138 | 80 |
| LFP60-8 | LFP 6/30 | 22 / 30 | 1988 | 1174 | 152 | 156 | 1991 | 1177 | 152 | 156 | 814 | 138 | 89 |
| LFP60-9-B | LFP 6/30 | 22 / 30 | 2101 | 1287 | 152 | 156 | 2104 | 1290 | 152 | 156 | 814 | 138 | 91 |
| LFP60-9 | LFP 6/35 | 26 / 35 | 2161 | 1287 | 152 | 156 | 2164 | 1290 | 152 | 156 | 874 | 138 | 97 |
| LFP60-10 | LFP 6/35 | 26 / 35 | 2274 | 1400 | 152 | 156 | 2277 | 1403 | 152 | 156 | 874 | 138 | 100 |
| LFP60-11 | LFP 6/40 | 30 / 40 | 2457 | 1513 | 152 | 156 | 2460 | 1516 | 152 | 156 | 944 | 138 | 110 |
| LFP60-12 | LFP 6/50 | 37 / 50 | 3131 | 1706 | 152 | 156 | 3134 | 1709 | 152 | 156 | 1425 | 138 | 163 |
| LFP60-13 | LFP 6/50 | 37 / 50 | 3244 | 1819 | 152 | 156 | 3247 | 1822 | 152 | 156 | 1425 | 138 | 165 |
| LFP60-14 | LFP 6/50 | 37 / 50 | | | | | 3360 | 1935 | 152 | 156 | 1425 | 138 | 168 |
| LFP60-15 | LFP 8/60 | 45 / 60 | | | | | 3267 | 1997 | 192 | 192 | 1270 | 192 | 221 |
| LFP60-16 | LFP 8/60 | 45 / 60 | | | | | 3380 | 2110 | 192 | 192 | 1270 | 192 | 223 |
| LFP60-17 | LFP 8/60 | 45 / 60 | | | | | 3493 | 2223 | 192 | 192 | 1270 | 192 | 226 |
| LFP60-18 | LFP 8/75 | 55 / 75 | | | | | 3686 | 2336 | 192 | 192 | 1350 | 192 | 243 |
| LFP60-19 | LFP 8/75 | 55 / 75 | | | | | 3962 | 2612 | 193 | 195 | 1350 | 192 | 272 |
| LFP60-20 | LFP 8/75 | 55 / 75 | | | | | 4075 | 2725 | 193 | 195 | 1350 | 192 | 275 |
| LFP60-21 | LFP 8/90 | 67 / 90 | | | | | 4328 | 2838 | 193 | 195 | 1490 | 192 | 304 |

* Maximum diameter of pump with one motor cable.

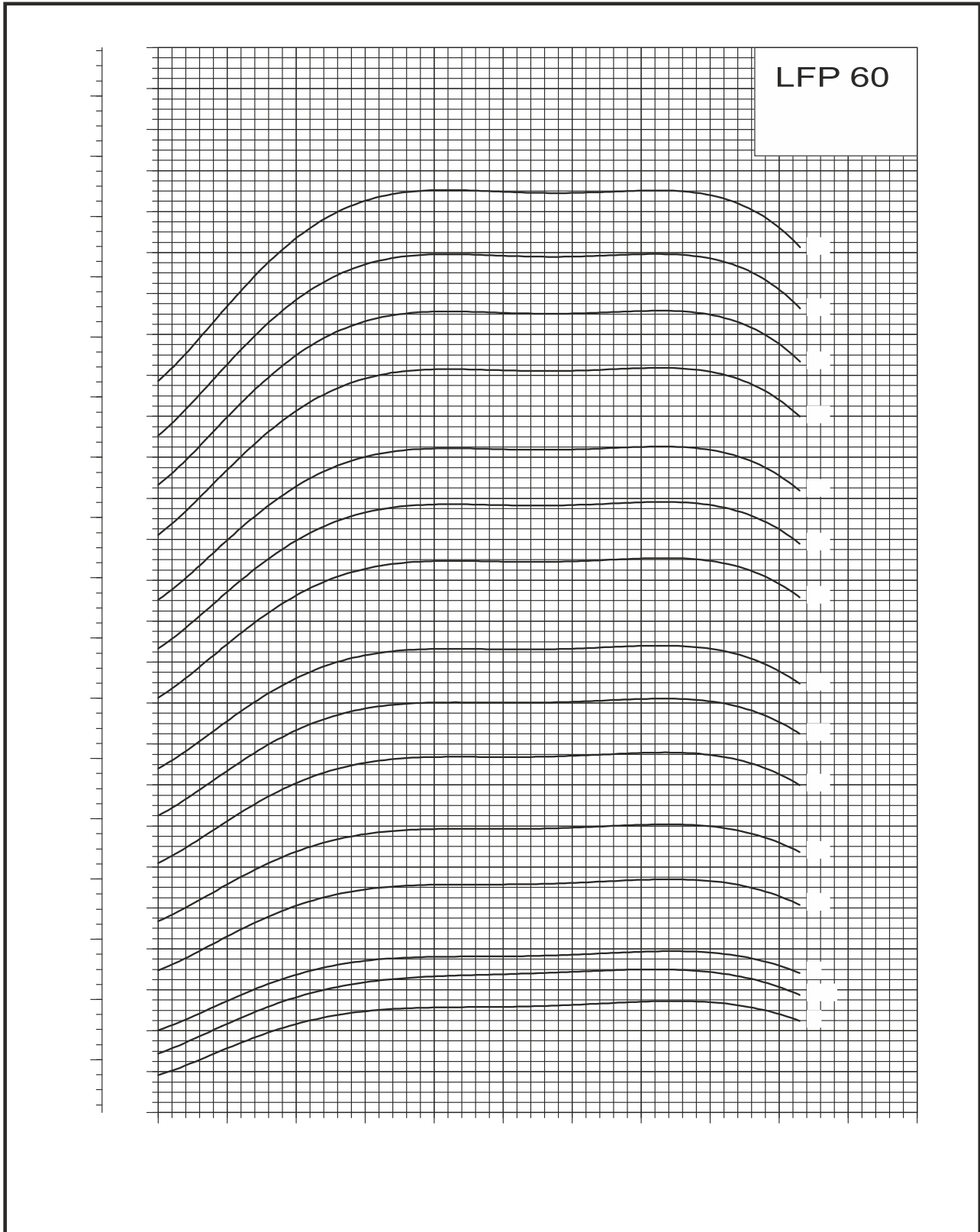
** Maximum diameter of pump with two motor cable.

Also available 45 kW in 6" joining.

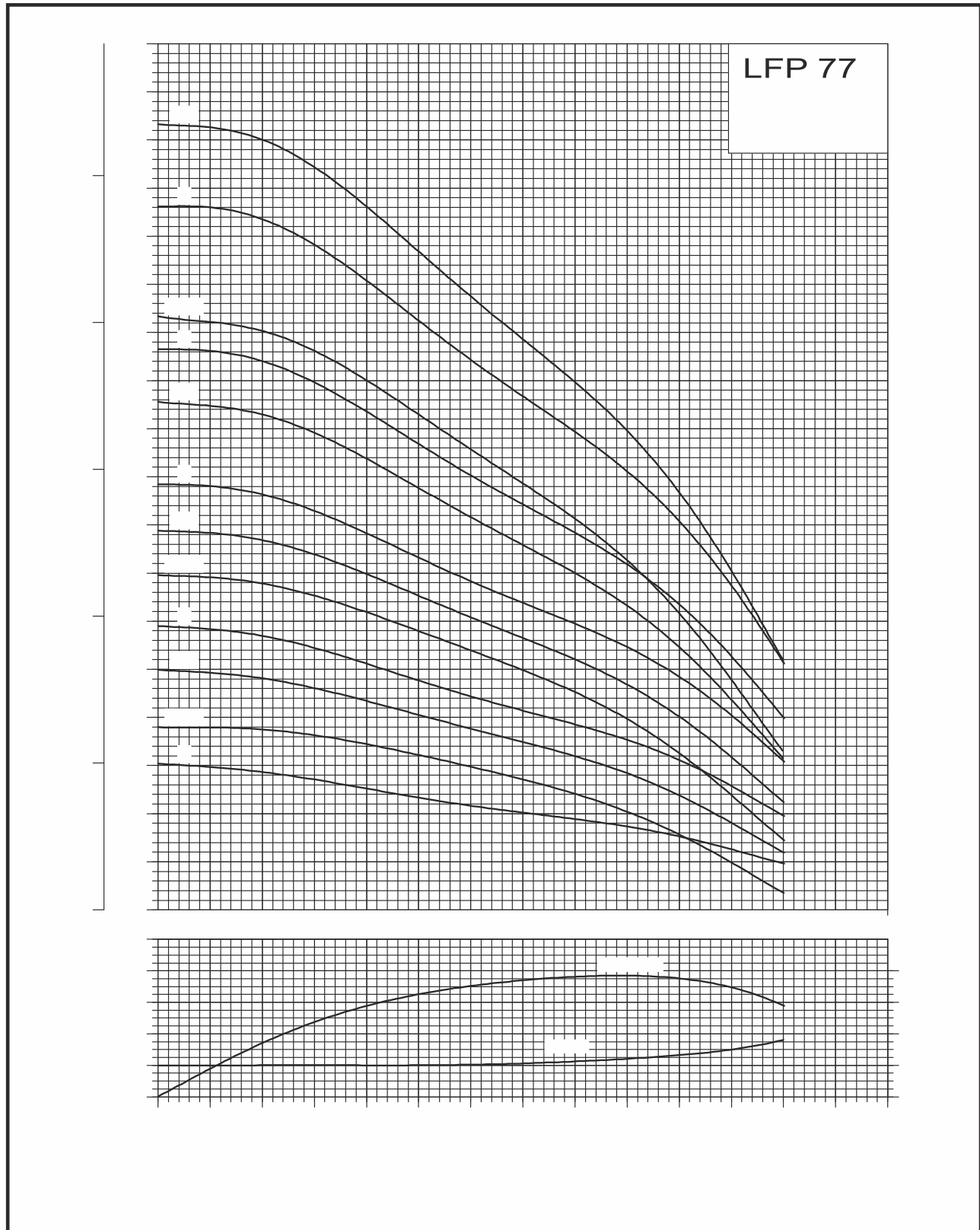
Power Curve - LFP 60



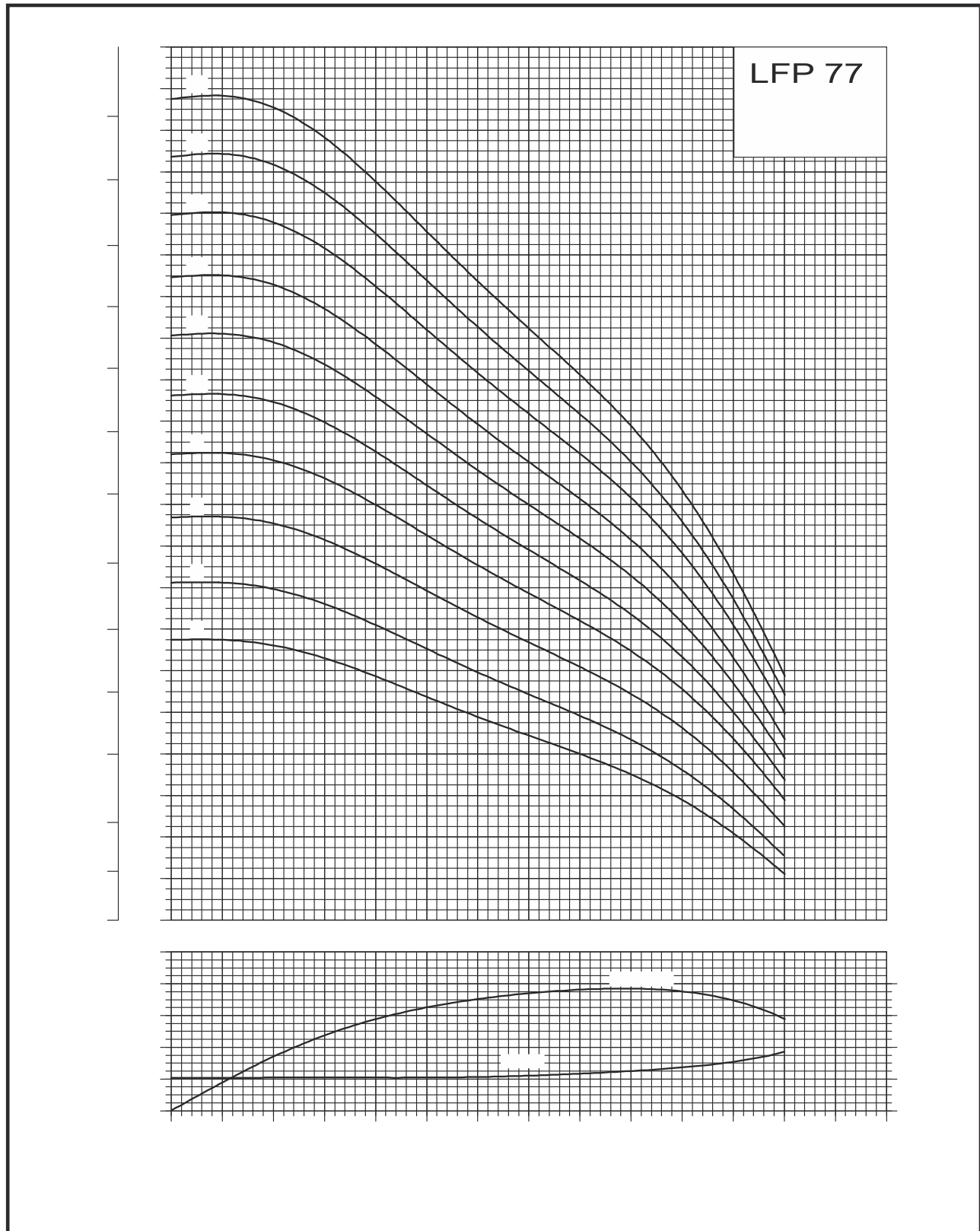
Power Curve - LFP 60



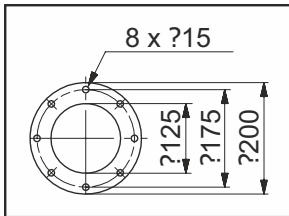
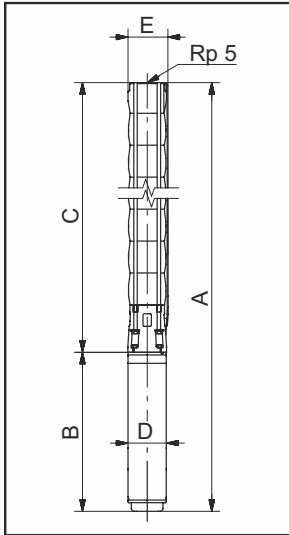
Performance Curve - LFP 77



Performance Curve - LFP 77



Dimensions and Weights



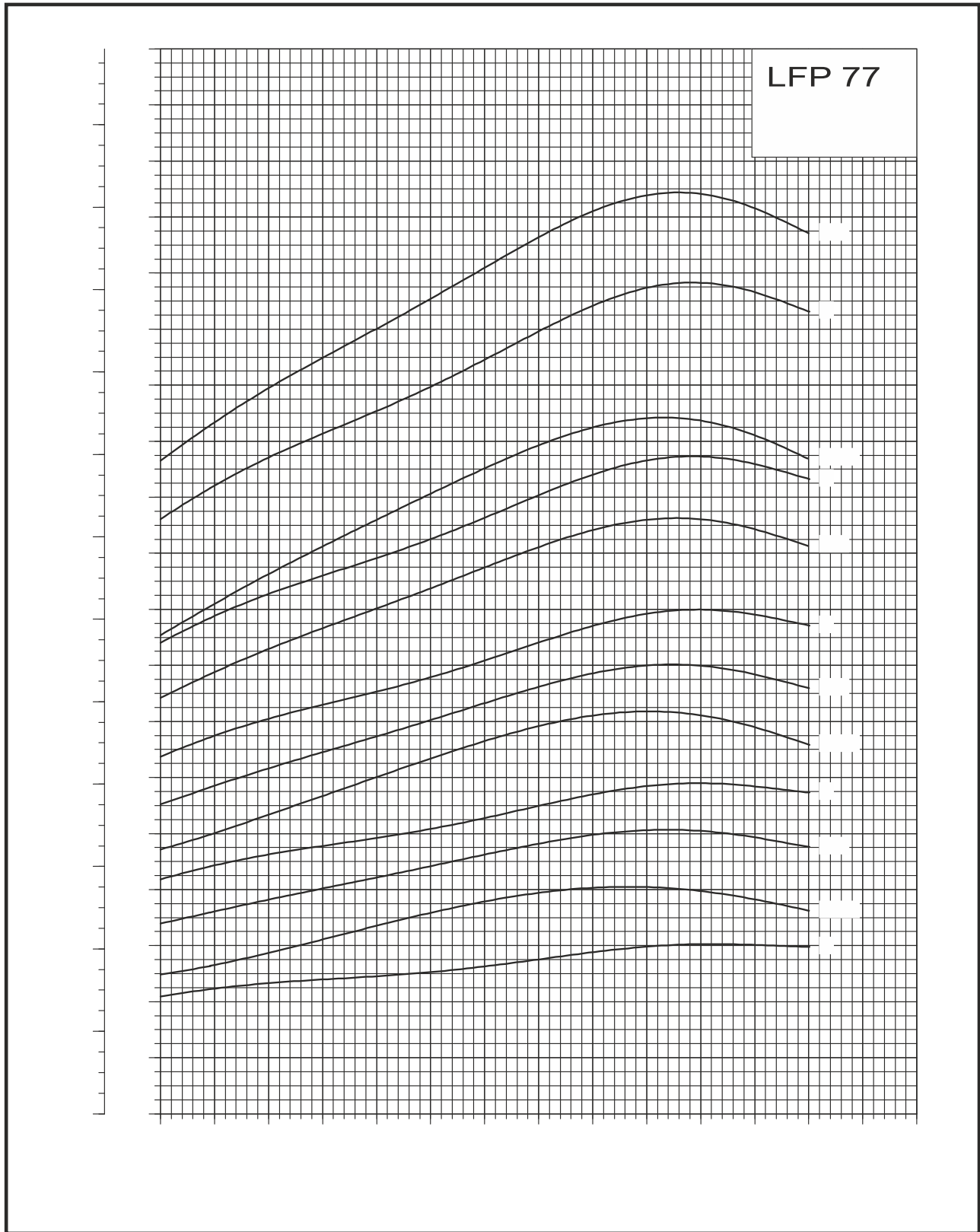
| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|-----------|--------------|---------------|------------------|------|-----|-----|--------------|------|-----|-----|------|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 5" Connection | | | | Rp 5" Flange | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP77-1 | LFP6/7.5 | 5.5 / 7.5 | 1162 | 618 | 178 | 186 | 1162 | 618 | 200 | 200 | 544 | 138 | 55 |
| LFP77-2BA | LFP6/10 | 7.5 / 10 | 1320 | 746 | 178 | 186 | 1320 | 746 | 200 | 200 | 574 | 138 | 63 |
| LFP77-2A | LFP6/12.5 | 9.2 / 12.5 | 1350 | 746 | 178 | 186 | 1350 | 746 | 200 | 200 | 604 | 138 | 69 |
| LFP77-2 | LFP6/15 | 11 / 15 | 1380 | 746 | 178 | 186 | 1380 | 746 | 200 | 200 | 634 | 138 | 71 |
| LFP77-3AA | LFP6/17.5 | 13 / 17.5 | 1538 | 874 | 178 | 186 | 1538 | 874 | 200 | 200 | 664 | 138 | 78 |
| LFP77-3A | LFP6/20 | 15 / 20 | 1573 | 874 | 178 | 186 | 1573 | 874 | 200 | 200 | 699 | 138 | 82 |
| LFP77-3 | LFP6/25 | 18.5 / 25 | 1628 | 874 | 178 | 186 | 1628 | 874 | 200 | 200 | 754 | 138 | 87 |
| LFP77-4B | LFP6/25 | 18.5 / 25 | 1756 | 1002 | 178 | 186 | 1756 | 1002 | 200 | 200 | 754 | 138 | 91 |
| LFP77-4 | LFP6/30 | 22 / 30 | 1816 | 1002 | 178 | 186 | 1816 | 1002 | 200 | 200 | 814 | 138 | 97 |
| LFP77-5BB | LFP6/30 | 22 / 30 | 1944 | 1130 | 178 | 186 | 1944 | 1130 | 200 | 200 | 814 | 138 | 101 |
| LFP77-5 | LFP6/35 | 26 / 35 | 2004 | 1130 | 178 | 186 | 2004 | 1130 | 200 | 200 | 874 | 138 | 106 |
| LFP77-6B | LFP6/40 | 30 / 40 | 2202 | 1258 | 178 | 186 | 2202 | 1258 | 200 | 200 | 944 | 138 | 118 |
| LFP77-6 | LFP6/50 | 37 / 50 | 2683 | 1258 | 178 | 186 | 2683 | 1258 | 200 | 200 | 1425 | 138 | 166 |
| LFP77-7 | LFP6/50 | 37 / 50 | 2811 | 1386 | 178 | 186 | 2811 | 1386 | 200 | 200 | 1425 | 138 | 169 |
| LFP77-8 | LFP8/60 | 45 / 60 | 2798 | 1528 | 200 | 204 | 2798 | 1528 | 205 | 205 | 1270 | 192 | 225 |
| LFP77-9 | LFP8/75 | 55 / 75 | 3006 | 1656 | 200 | 204 | 3006 | 1656 | 205 | 205 | 1350 | 192 | 244 |
| LFP77-10 | LFP8/75 | 55 / 75 | 3134 | 1784 | 200 | 204 | 3134 | 1784 | 205 | 205 | 1350 | 192 | 248 |
| LFP77-11 | LFP8/90 | 67 / 90 | 3402 | 1912 | 200 | 204 | 3402 | 1912 | 205 | 205 | 1490 | 192 | 277 |
| LFP77-12 | LFP8/90 | 67 / 90 | 3530 | 2040 | 200 | 204 | 3530 | 2040 | 205 | 205 | 1490 | 192 | 281 |
| LFP77-13 | LFP8/100 | 75 / 100 | 3758 | 2168 | 200 | 204 | 3758 | 2164 | 205 | 205 | 1590 | 192 | 304 |
| LFP77-14 | LFP8/125 | 92 / 125 | 4426 | 2596 | 200 | 202 | | | | | 1830 | 192 | 361 |
| LFP77-15 | LFP8/125 | 92 / 125 | 4554 | 2724 | 200 | 202 | | | | | 1830 | 192 | 365 |

* Maximum diameter of pump with one motor cable.

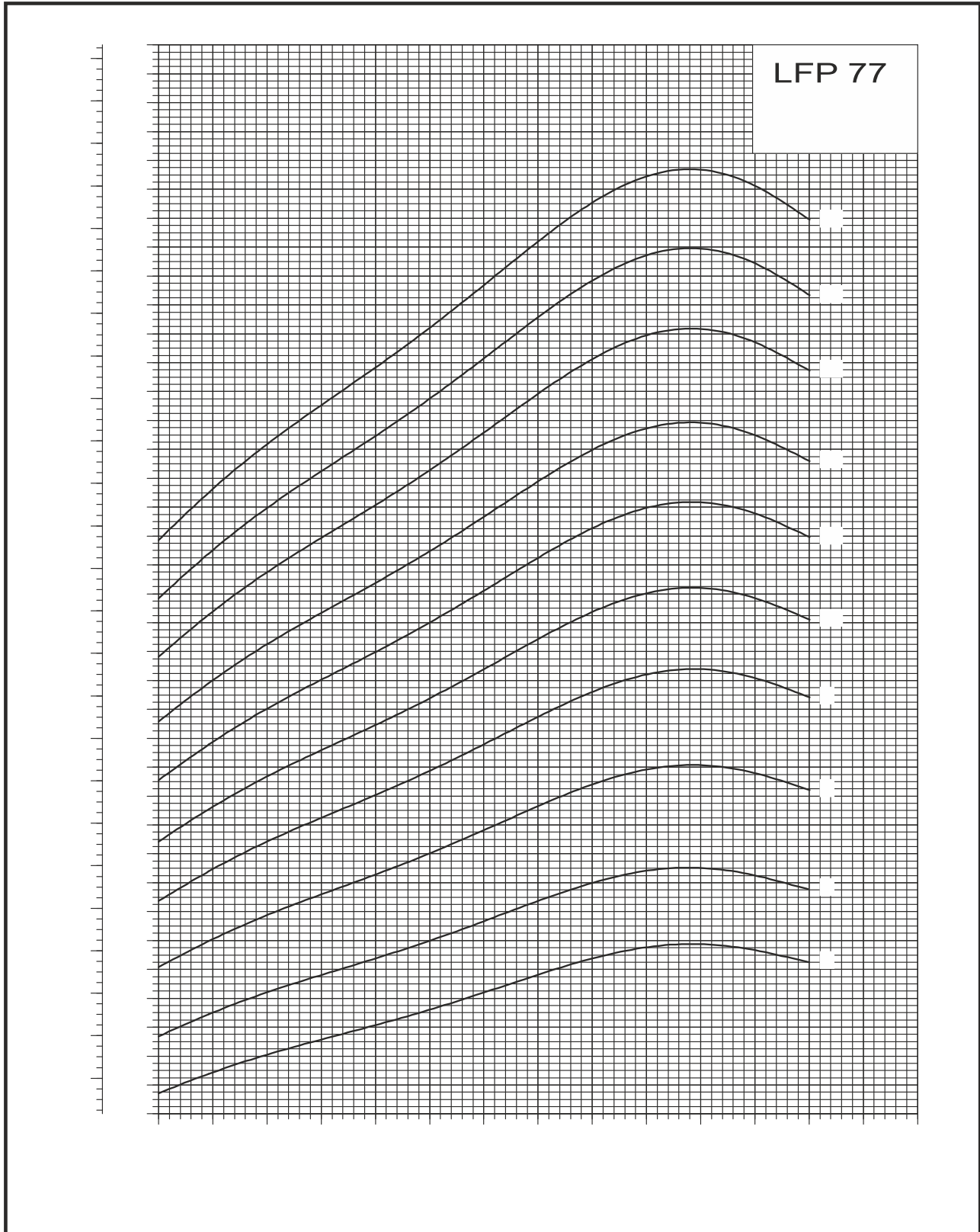
** Maximum diameter of pump with two motor cable.

Also available 45 kW in 6" joining.

Power Curve - LFP 77

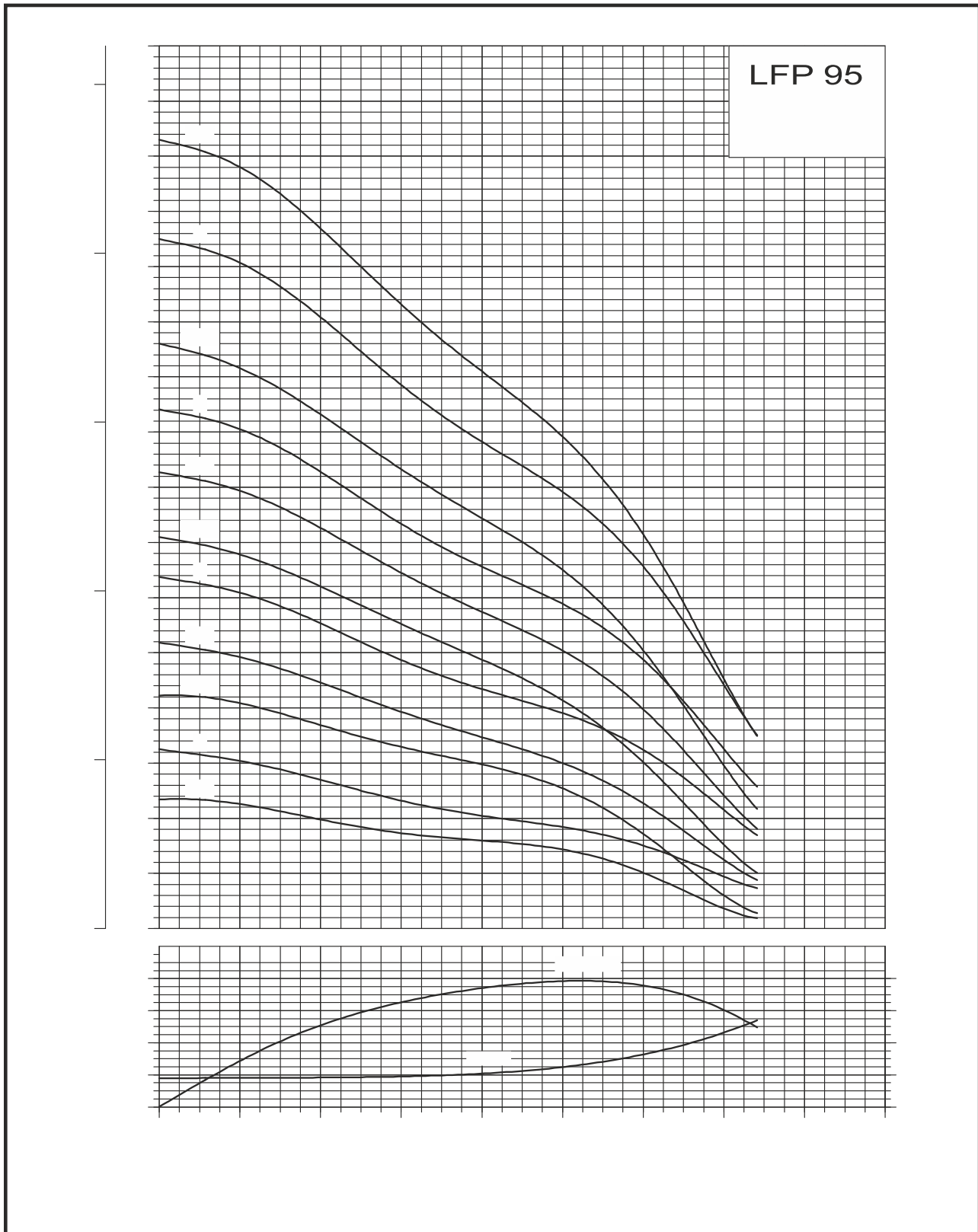


Power Curve - LFP 77

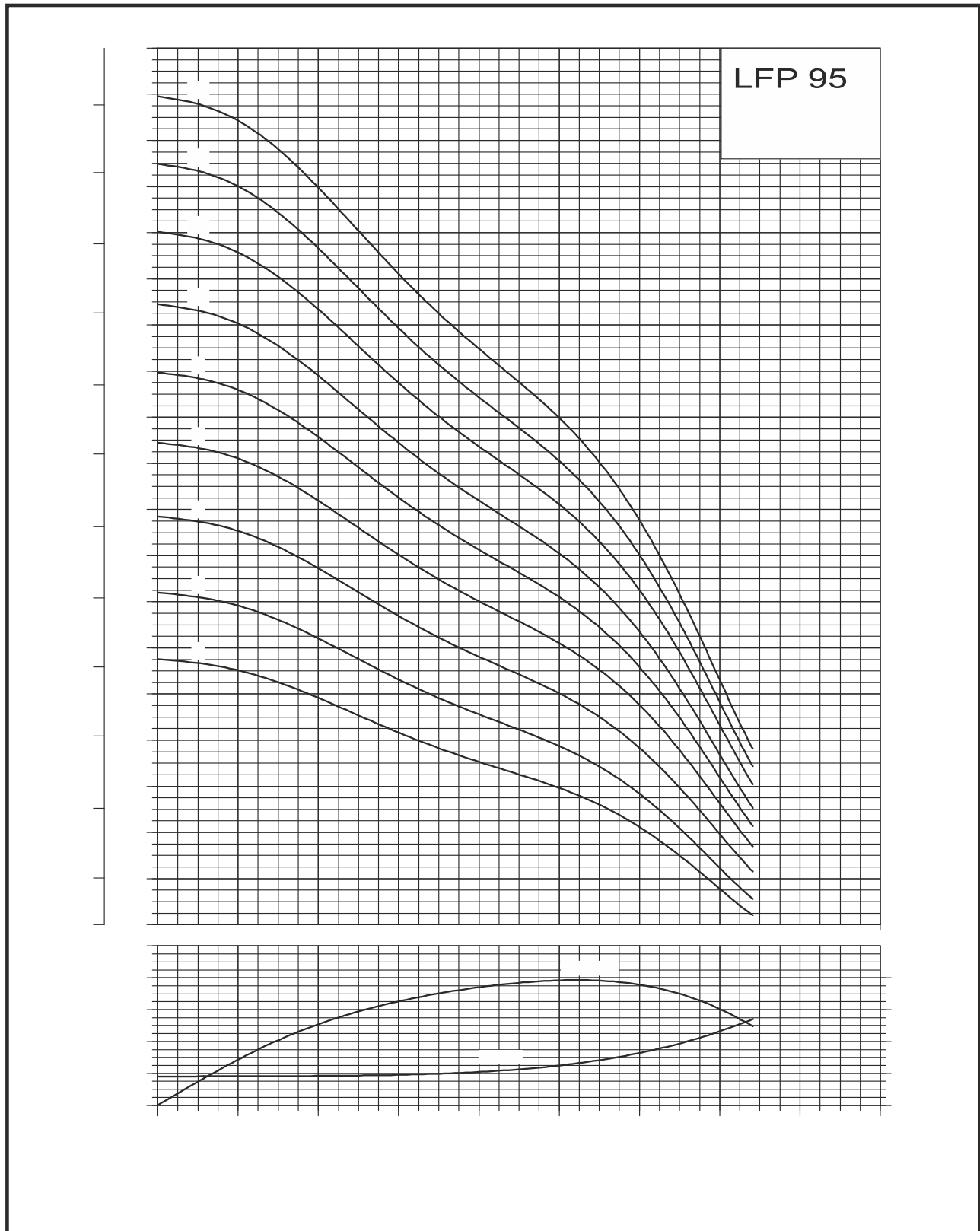


Performance Curve - LFP 95

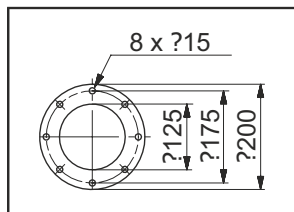
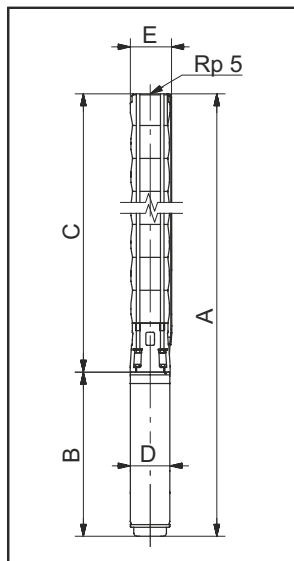
www.lifeforcepumps.com



Performance Curve - LFP 95



Dimensions and Weights

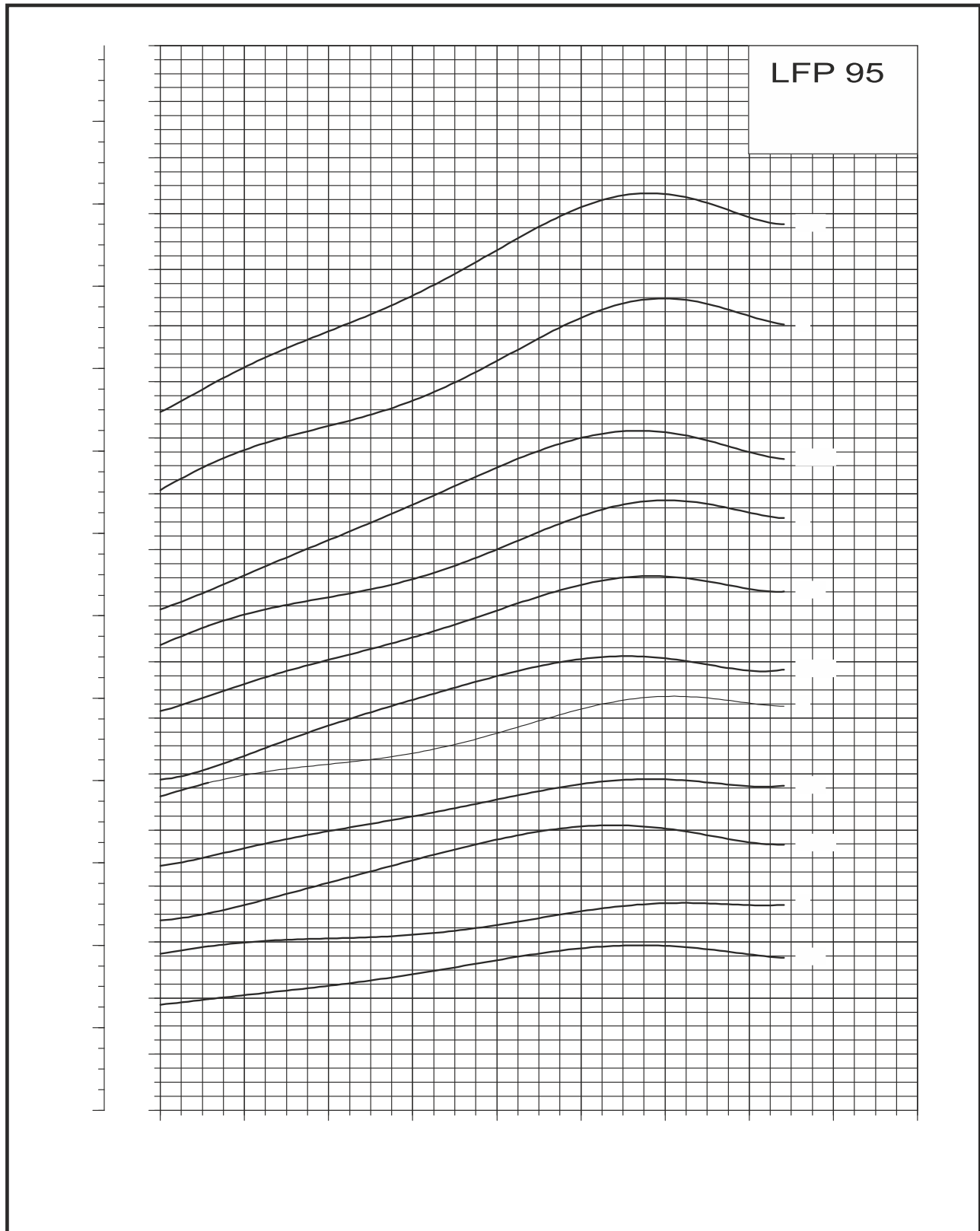


| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|-----------|--------------|---------------|------------------|------|-----|-----|--------------|------|-----|-----|------|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 5" Connection | | | | Rp 5" Flange | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP95-1A | LFP6/7.5 | 5.5 / 7.5 | 1162 | 618 | 179 | 183 | 1162 | 618 | 200 | 200 | 544 | 138 | 55 |
| LFP95-1 | LFP6/10 | 7.5 / 10 | 1192 | 618 | 179 | 183 | 1192 | 618 | 200 | 200 | 574 | 138 | 59 |
| LFP95-2AB | LFP6/12.5 | 9.2/12.5 | 1350 | 746 | 179 | 183 | 1350 | 746 | 200 | 200 | 604 | 138 | 69 |
| LFP95-2B | LFP6/15 | 11 / 15 | 1380 | 746 | 179 | 183 | 1380 | 746 | 200 | 200 | 634 | 138 | 71 |
| LFP95-2 | LFP6/17.5 | 13 / 17.5 | 1410 | 746 | 179 | 183 | 1410 | 746 | 200 | 200 | 664 | 138 | 74 |
| LFP95-3BB | LFP6/20 | 15 / 20 | 1573 | 874 | 179 | 183 | 1573 | 874 | 200 | 200 | 699 | 138 | 82 |
| LFP95-3B | LFP6/25 | 18.5/25 | 1628 | 874 | 179 | 183 | 1628 | 874 | 200 | 200 | 754 | 138 | 87 |
| LFP95-3 | LFP6/30 | 22 / 30 | 1688 | 874 | 179 | 183 | 1688 | 874 | 200 | 200 | 815 | 138 | 93 |
| LFP95-4AB | LFP6/30 | 22 / 30 | 1816 | 1002 | 179 | 183 | 1816 | 1002 | 200 | 200 | 814 | 138 | 97 |
| LFP95-4 | LFP6/35 | 26 / 35 | 1876 | 1002 | 179 | 183 | 1876 | 1002 | 200 | 200 | 874 | 138 | 103 |
| LFP95-5B | LFP6/40 | 30 / 40 | 2074 | 1130 | 179 | 183 | 2074 | 1130 | 200 | 200 | 944 | 138 | 114 |
| LFP95-5 | LFP6/50 | 37 / 50 | 2555 | 1130 | 179 | 183 | 2555 | 1130 | 200 | 200 | 1425 | 138 | 162 |
| LFP95-6 | LFP6/50 | 37 / 50 | 2683 | 1258 | 179 | 183 | 2683 | 1258 | 200 | 200 | 1425 | 138 | 166 |
| LFP95-7 | LFP8/60 | 45 / 60 | 2670 | 1400 | 205 | 205 | 2670 | 1400 | 200 | 200 | 1270 | 192 | 221 |
| LFP95-8 | LFP8/75 | 55 / 75 | 2878 | 1528 | 205 | 205 | 2878 | 1528 | 200 | 202 | 1350 | 192 | 240 |
| LFP95-9 | LFP8/90 | 67 / 90 | 3146 | 1656 | 205 | 205 | 3146 | 1656 | 200 | 202 | 1490 | 192 | 270 |
| LFP95-10 | LFP8/90 | 67 / 90 | 3274 | 1784 | 205 | 205 | 3274 | 1784 | 200 | 202 | 1490 | 192 | 274 |
| LFP95-11 | LFP8/100 | 75 / 100 | 3502 | 1912 | 205 | 205 | | | | | 1590 | 192 | 296 |
| LFP95-12 | LFP8/125 | 92 / 125 | 3870 | 2040 | 205 | 205 | | | | | 1830 | 192 | 346 |
| LFP95-13 | LFP8/125 | 92 / 125 | 3998 | 2168 | 205 | 205 | | | | | 1830 | 192 | 350 |

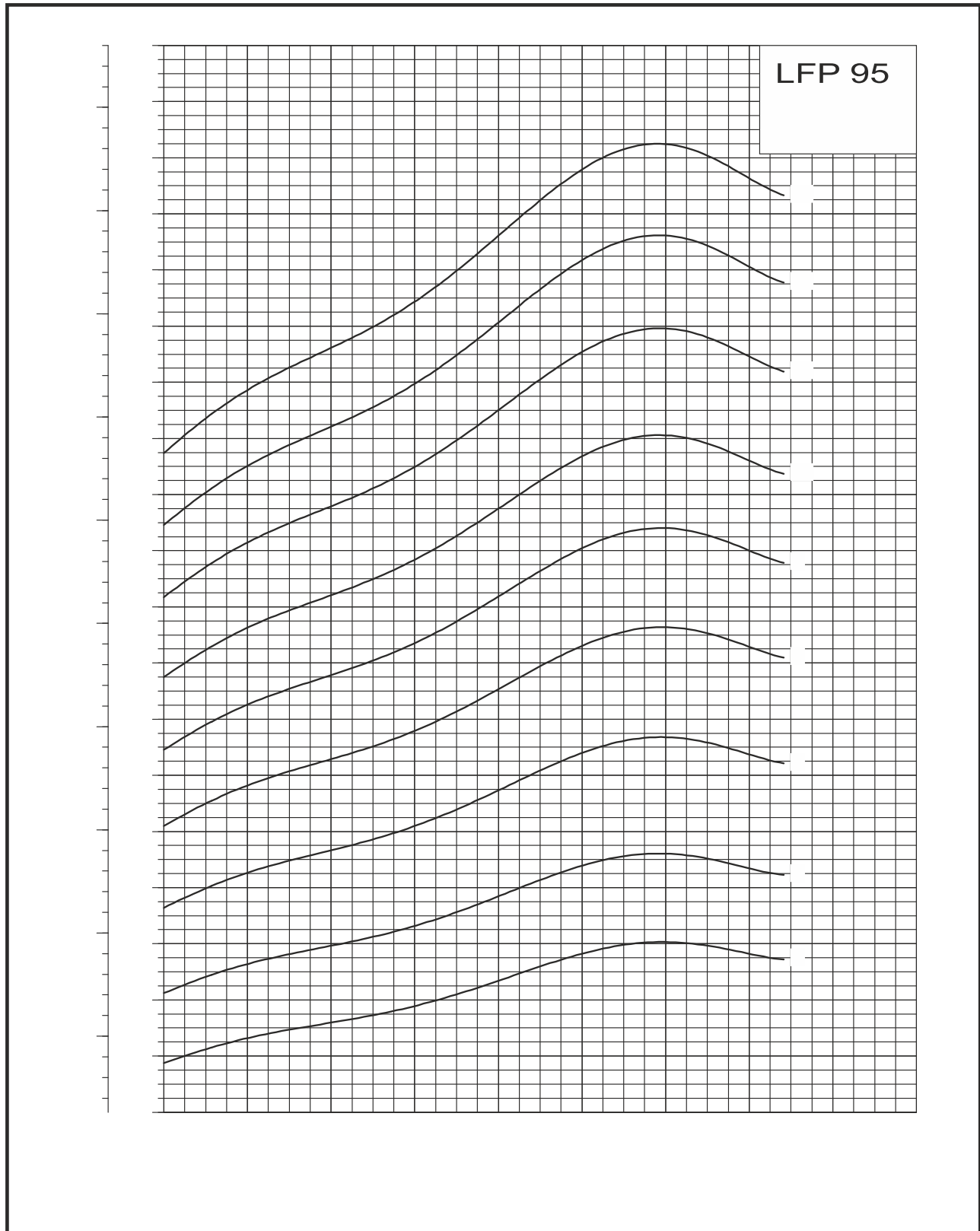
* Maximum diameter of pump with one motor cable.
 ** Maximum diameter of pump with two motor cable.
 Also available 45 kW in 6" joining.



Power Curve - LFP 95

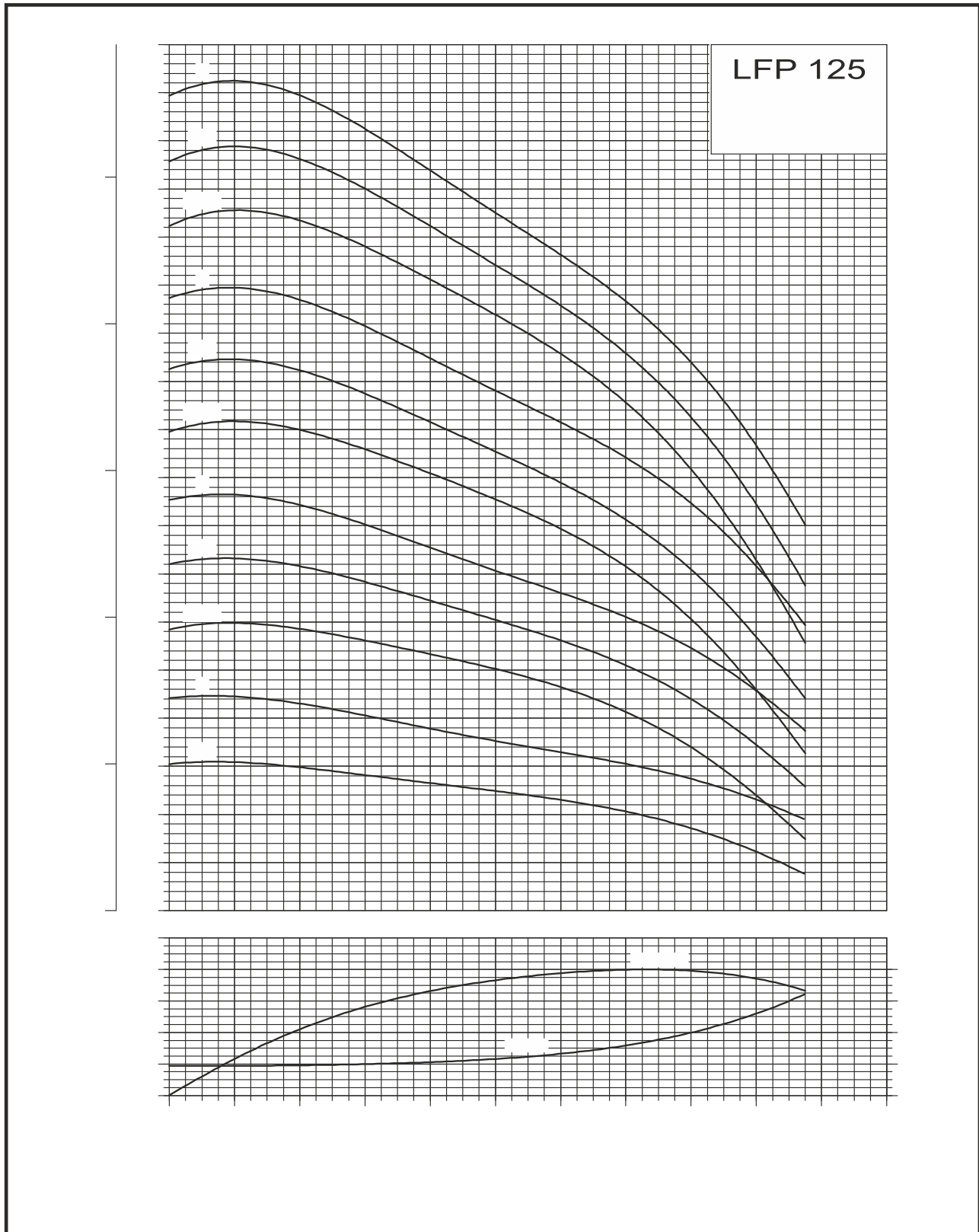


Power Curve - LFP 95

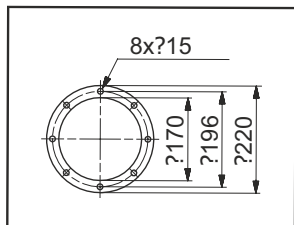
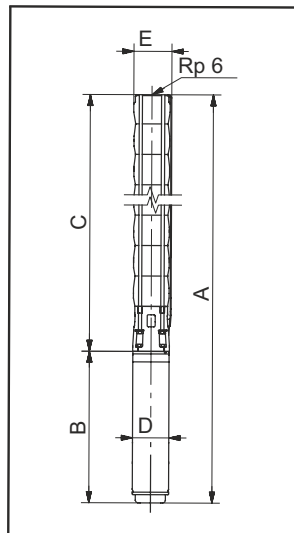


Performance Curve - LFP 125

www.lifeforcepumps.com



Dimensions and Weights



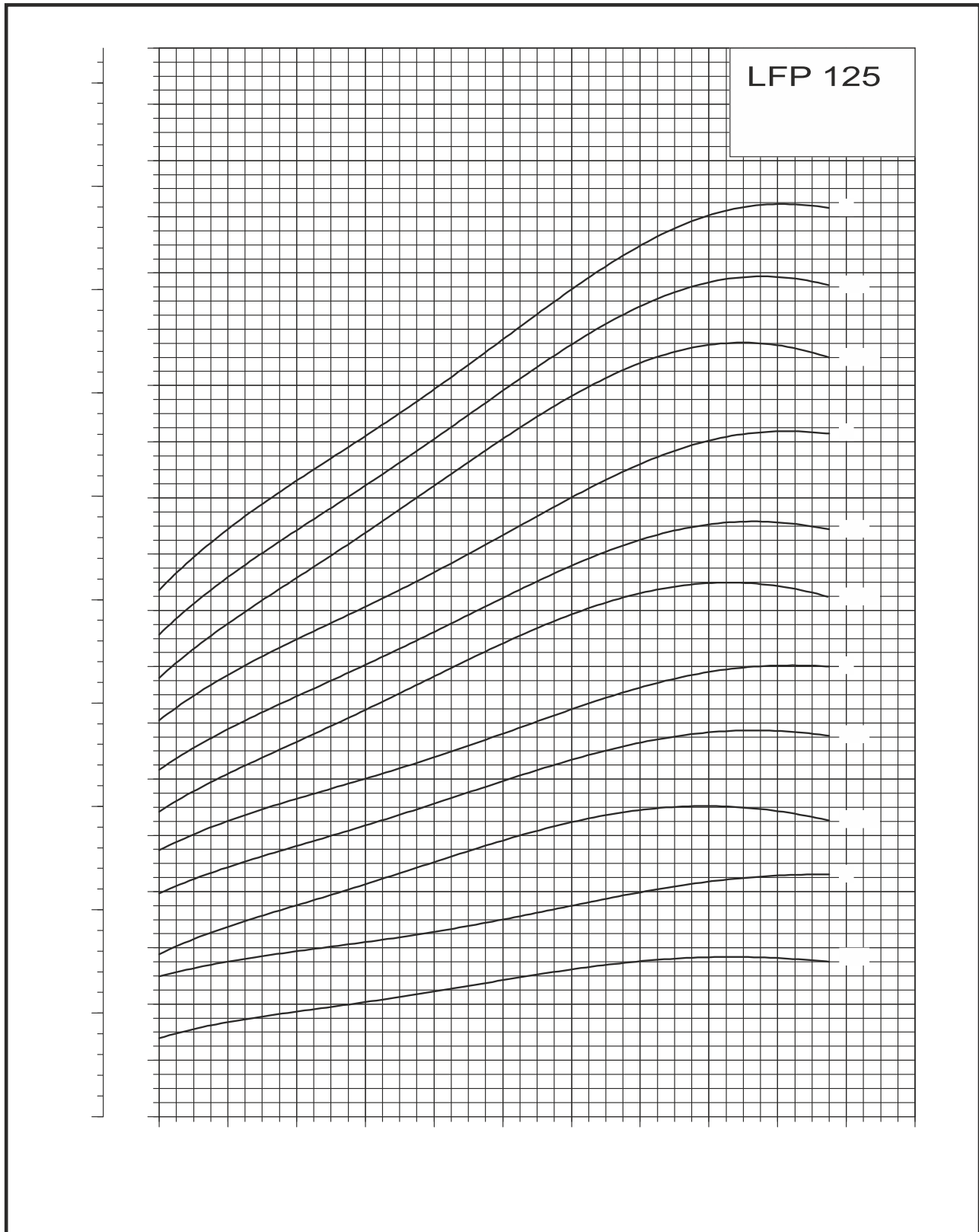
| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|------------|--------------|---------------|------------------|------|-----|-----|--------------|------|------|-----|------|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 6" Connection | | | | Rp 6" Flange | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP125-1A | LFP6/15 | 11 / 15 | 1286 | 652 | 211 | 215 | 1286 | 652 | 222 | 226 | 634 | 138 | 81 |
| LFP125-1 | LFP6/25 | 18.5 / 25 | 1406 | 652 | 211 | 215 | 1406 | 652 | 222 | 226 | 754 | 138 | 93 |
| LFP125-2AA | LFP6/30 | 22 / 30 | 1621 | 807 | 211 | 215 | 1621 | 807 | 222 | 226 | 814 | 138 | 105 |
| LFP125-2A | LFP6/35 | 26 / 35 | 1681 | 807 | 211 | 215 | 1681 | 807 | 2522 | 226 | 874 | 138 | 111 |
| LFP125 2 | LFP 6/40 | 30/40 | 1751 | 807 | 211 | 215 | 1751 | 807 | 222 | 226 | 944 | 138 | 119 |
| LFP125-3AA | LFP6/50 | 37 / 50 | 2388 | 963 | 211 | 215 | 2388 | 963 | 222 | 226 | 1425 | 138 | 172 |
| LFP 125-3A | LFP 6/50 | 37/50 | 2388 | 963 | 211 | 215 | 2388 | 963 | 222 | 226 | 1425 | 138 | 172 |
| LFP125-3 | LFP8/60 | 45 / 60 | 2233 | 963 | 213 | 219 | 2233 | 963 | 229 | 232 | 1270 | 192 | 226 |
| LFP125-4AA | LFP 8/75 | 55 / 75 | 2468 | 1118 | 213 | 219 | 2468 | 1118 | 229 | 232 | 1350 | 192 | 247 |
| LFP125-4A | LFP8/75 | 55 / 75 | 2468 | 1118 | 213 | 219 | 2468 | 1118 | 229 | 232 | 1350 | 192 | 247 |
| LFP125-4 | LFP 8/90 | 67/90 | 2608 | 1118 | 213 | 219 | 2608 | 1118 | 229 | 232 | 1490 | 192 | 273 |
| LFP125-5AA | LFP 8/100 | 75/100 | 2864 | 1274 | 213 | 219 | | | | | 1590 | 192 | 296 |
| LFP 125-5A | LFP 8/100 | 75 / 100 | 2864 | 1274 | 213 | 219 | | | | | 1590 | 192 | 296 |
| LFP1 25-5 | LFP 8/100 | 75 / 100 | 2864 | 1274 | 213 | 219 | | | | | 1590 | 192 | 296 |
| LFP125-6AA | LFP 8/100 | 75 / 100 | 3019 | 1429 | 213 | 219 | | | | | 1590 | 192 | 302 |
| LFP125-6A | LFP8 /125 | 92 / 125 | 3259 | 1429 | 213 | 219 | | | | | 1830 | 192 | 348 |
| LFP 125-6 | LFP8/125 | 92 / 125 | 3259 | 1429 | 213 | 219 | | | | | 1830 | 192 | 348 |
| LFP125-7AA | LFP 8/125 | 92/125 | 3415 | 1585 | 213 | 219 | | | | | 1830 | 192 | 354 |
| LFP125-7A | LFP 8/125 | 92/125 | 3415 | 1585 | 213 | 219 | | | | | 1830 | 192 | 354 |
| LFP125-7 | LFP 10/150 | 110 / 150 | 3645 | 1585 | 213 | 219 | | | | | 2060 | 192 | 404 |
| LFP125-8 | LFP 10/200 | 147/200 | 3962 | 2092 | 237 | 237 | | | | | 1870 | 237 | 532 |
| LFP12- 9 | LFP 10/200 | 147 / 200 | 4118 | 2248 | 237 | 237 | | | | | 1870 | 237 | 538 |
| LFP125-10 | LFP 10/200 | 147 / 200 | 4473 | 2403 | 237 | 237 | | | | | 2070 | 237 | 609 |
| LFP125-11 | LFP10/250 | 185/250 | 4779 | 2559 | 237 | 237 | | | | | 2220 | 237 | 655 |
| LFP125-12 | LFP 10/250 | 185 / 250 | 4527 | 2793 | 286 | 286 | | | | | 1734 | 286 | 687 |
| LFP125-13 | LFP 10/250 | 185 / 250 | 4682 | 2948 | 286 | 286 | | | | | 1734 | 286 | 693 |

* Maximum diameter of pump with one motor cable.

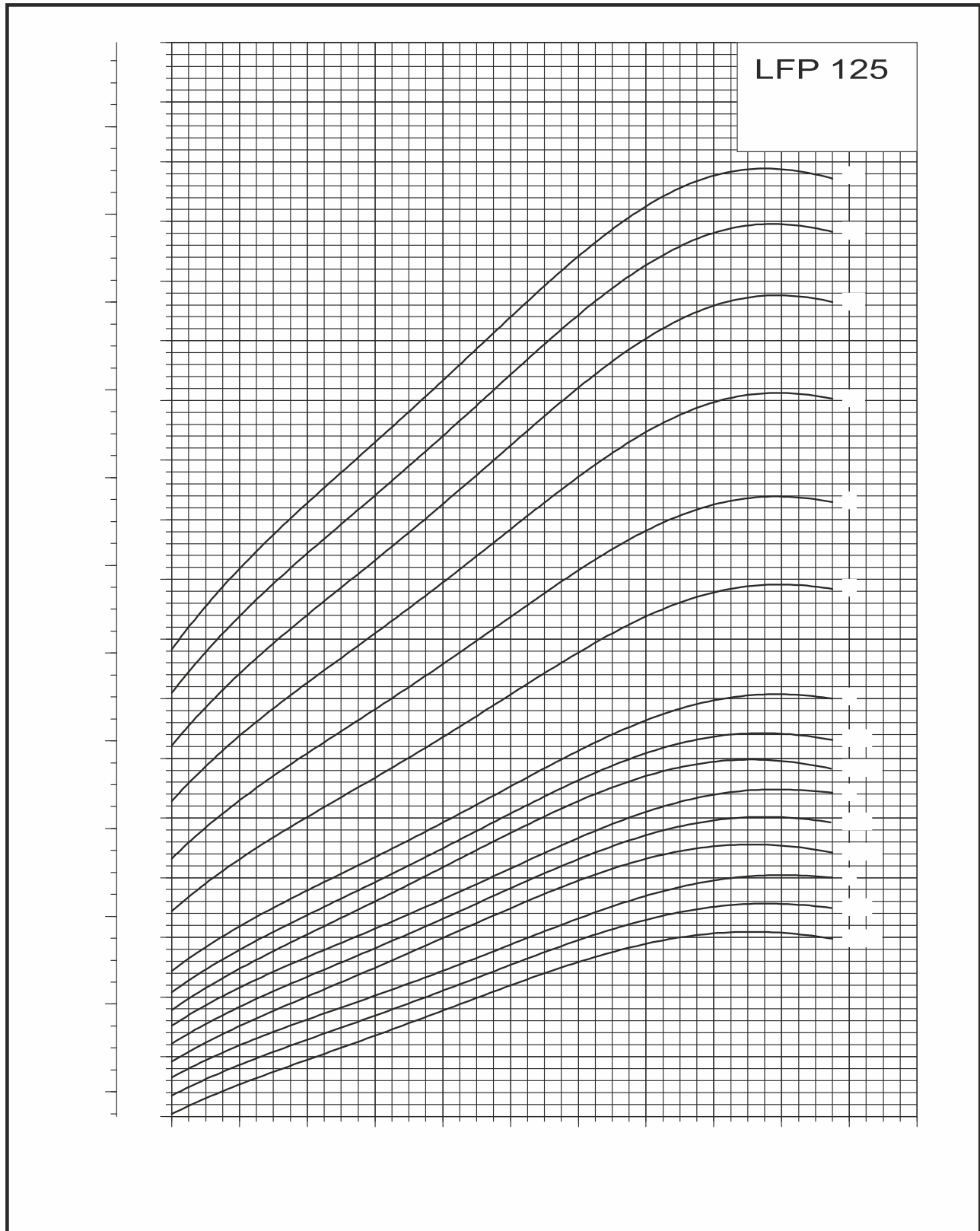
** Maximum diameter of pump with two motor cable.

Also available 45 kW in 6 joining.

Power Curve - LFP 125

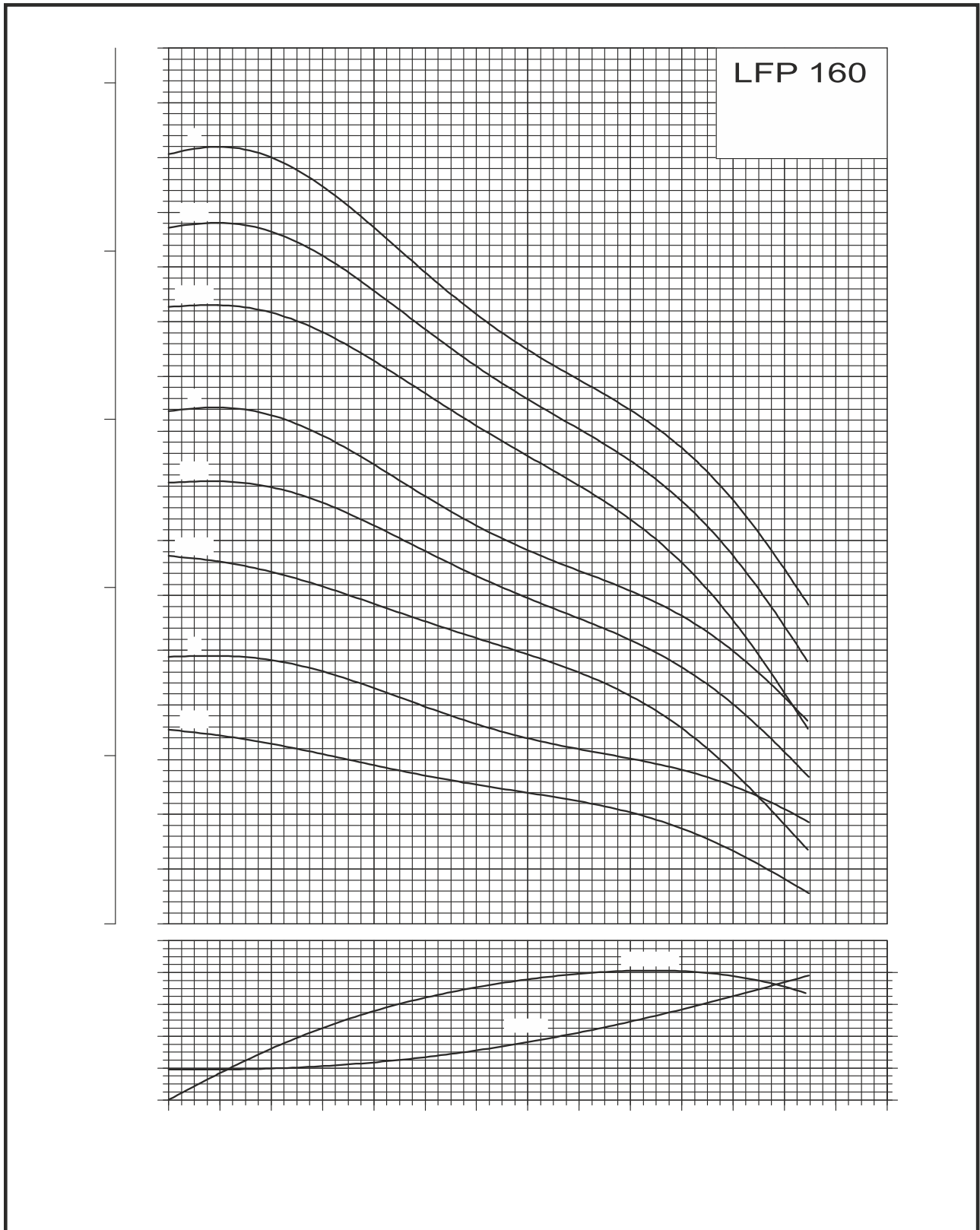


Power Curve - LFP 125



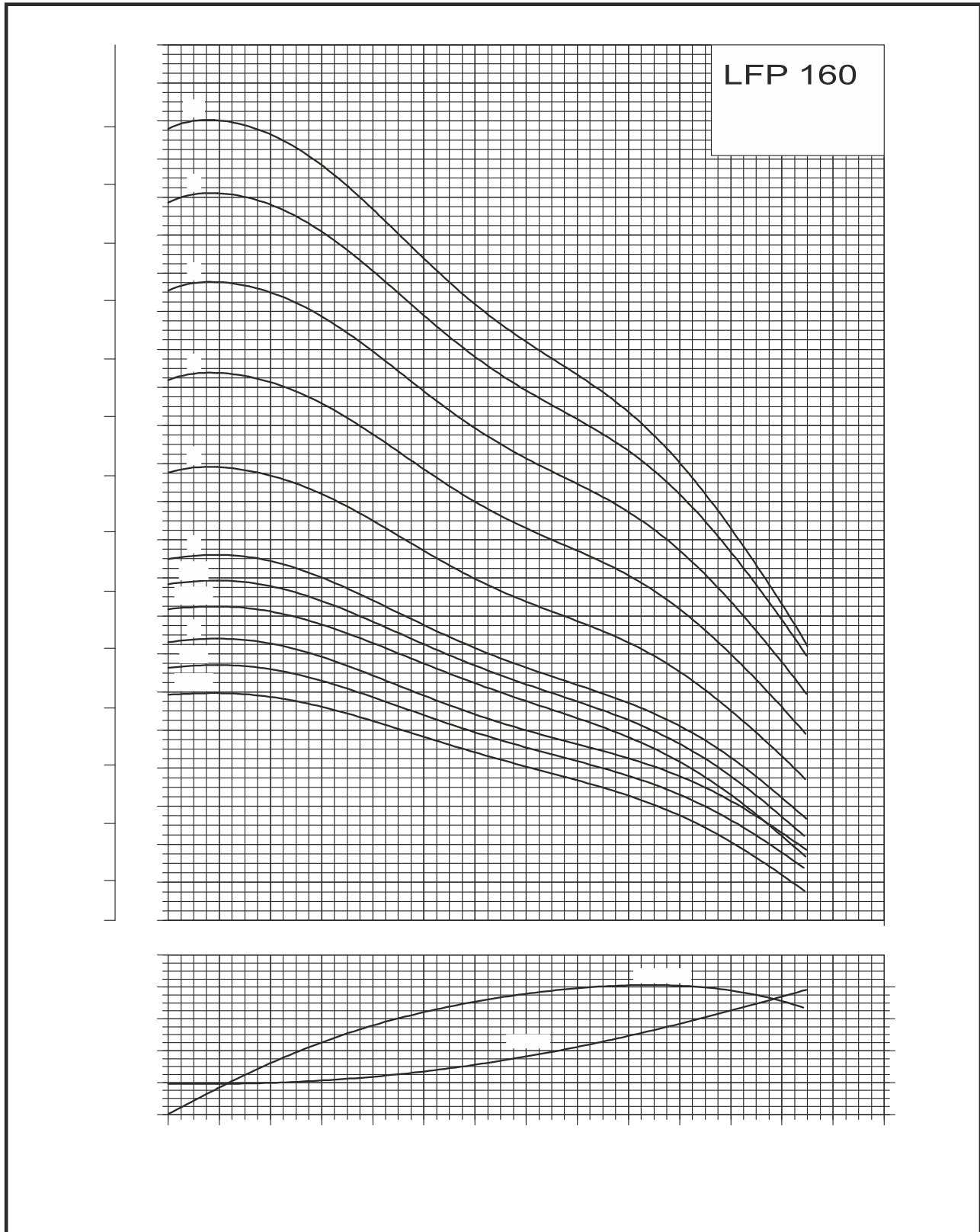
Performance Curve - LFP 160

www.lifeforcepumps.com

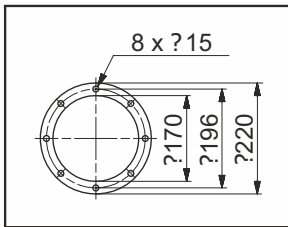
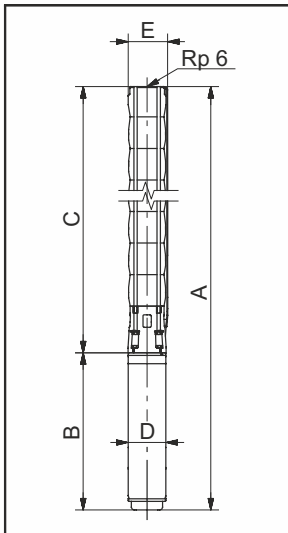


Performance Curve - LFP 160

www.lifeforcepumps.com



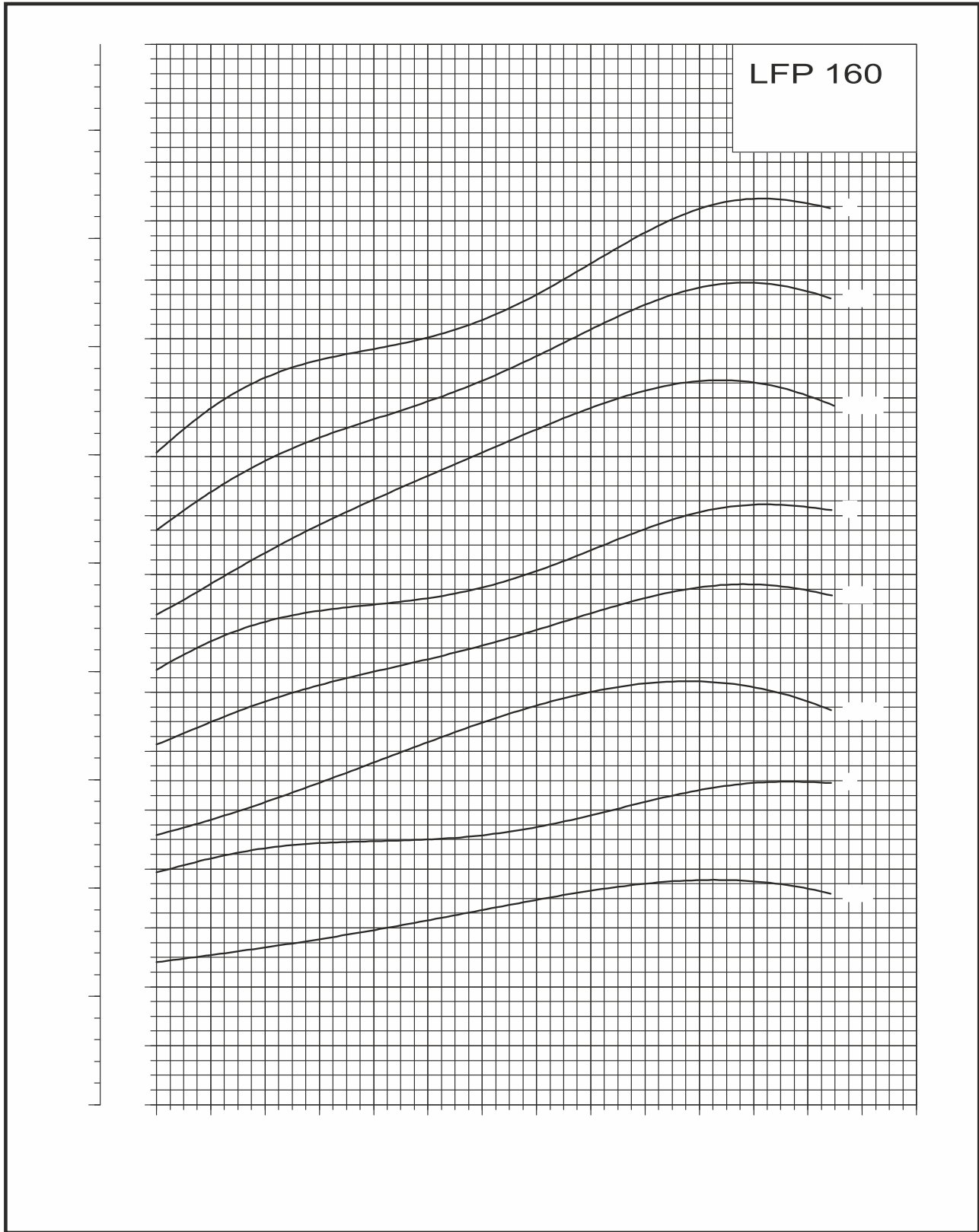
Dimensions and Weights



| Pump type | Motor | | Dimensions [mm] | | | | | | | | | | Net weight [kg] |
|------------|--------------|---------------|------------------|------|-----|-----|--------------|-----|-----|-----|------|-----|-----------------|
| | Type Inch/HP | Power [kW/HP] | Rp 6" Connection | | | | Rp 6" Flange | | | | B | D | |
| | | | A | C | E* | E** | A | C | E* | E** | | | |
| LFP160-1A | LFP6/20 | 15 / 20 | 1351 | 652 | 211 | 215 | 1351 | 652 | 222 | 226 | 699 | 138 | 88 |
| LFP160-1 | LFP6/30 | 22 / 30 | 1466 | 652 | 211 | 215 | 1466 | 652 | 222 | 226 | 814 | 138 | 99 |
| LFP160-2AA | LFP6/35 | 26 / 35 | 1681 | 807 | 211 | 215 | 1681 | 807 | 222 | 226 | 874 | 138 | 111 |
| LFP160-2A | LFP6/50 | 37 / 50 | 2232 | 807 | 211 | 215 | 2232 | 807 | 222 | 226 | 1425 | 138 | 166 |
| LFP160-2 | LFP6/50 | 37 / 50 | 2232 | 807 | 211 | 215 | 2232 | 807 | 222 | 226 | 1425 | 138 | 166 |
| LFP160-3AA | LFP8/60 | 45 / 60 | 2233 | 963 | 213 | 219 | 2233 | 963 | 229 | 232 | 1270 | 192 | 226 |
| LFP160-3A | LFP8/75 | 55 / 75 | 2313 | 963 | 213 | 219 | 2313 | 963 | 229 | 232 | 1350 | 192 | 241 |
| LFP160-3 | LFP8/75 | 55 / 75 | 2313 | 963 | 213 | 219 | 2313 | 963 | 229 | 232 | 1350 | 192 | 241 |
| LFP160-4AA | LFP8/90 | 67 / 90 | 2608 | 1118 | 213 | 219 | | | | | 1490 | 192 | 271 |
| LFP160-4A | LFP8/100 | 75 / 100 | 2708 | 1118 | 213 | 219 | | | | | 1590 | 192 | 290 |
| LFP160-4 | LFP8/100 | 75 / 100 | 2708 | 1118 | 213 | 219 | | | | | 1590 | 192 | 290 |
| LFP160-5AA | LFP8/125 | 92 / 125 | 3104 | 1274 | 213 | 219 | | | | | 1830 | 192 | 342 |
| LFP160-5A | LFP8/125 | 92 / 125 | 3104 | 1274 | 213 | 219 | | | | | 1830 | 192 | 342 |
| LFP160-5 | LFP8/125 | 92 / 125 | 3104 | 1274 | 213 | 219 | | | | | 1830 | 192 | 342 |
| LFP160-6 | LFP10/150 | 110 / 150 | 3789 | 1729 | 213 | 219 | | | | | 2060 | 192 | 408 |
| LFP160-7 | LFP10/200 | 137 / 200 | 3807 | 1937 | 237 | 237 | | | | | 1870 | 237 | 526 |
| LFP160-8 | LFP10/200 | 147 / 200 | 4162 | 2092 | 237 | 237 | | | | | 2070 | 237 | 597 |
| LFP160-9 | LFP10/250 | 185 / 250 | 4468 | 2248 | 237 | 237 | | | | | 2220 | 237 | 643 |
| LFP160-10 | LFP10/250 | 185 / 250 | 4216 | 2482 | 286 | 286 | | | | | 1734 | 286 | 675 |

* Maximum diameter of pump with one motor cable.
 ** Maximum diameter of pump with two motor cable.
 Also available 45 kW in 6" joining.

Power Curve - LFP 160



Power Curve - LFP 160

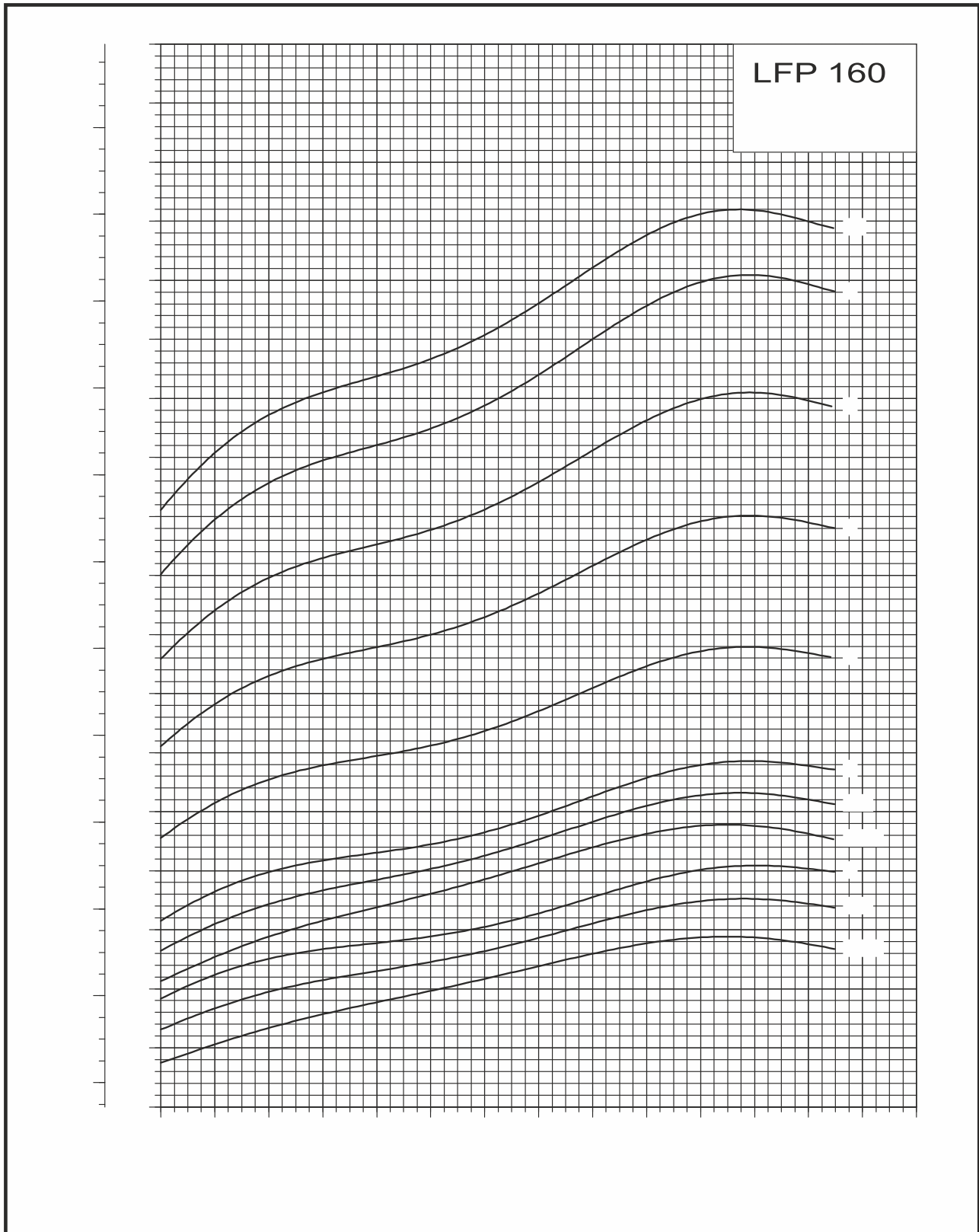


Table of Head Losses in Ordinary Pipes

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

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

| Quantity of Water | | | Head Losses in Ordinary Water Pipes | | | | | | | | | | | |
|-----------------------------|-------------|-------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| m ³ /h | Litres/min. | Litres/sec. | Nominal Pipe Diameter in Inches and Internal Diameter in (mm) | | | | | | | | | | | |
| | | | ½" | ¾" | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" |
| 0.6 | 10 | 0.16 | 0.855 15.75 | 0.470 21.25 | 0.292 27.00 | 0.438 35.75 | 0.249 41.25 | 0.312 52.50 | 0.231 68.00 | 0.269 80.25 | 0.223 92.50 | 0.203 105.0 | 0.185 130.0 | 0.166 155.5 |
| 0.9 | 15 | 0.25 | 1.282 20.11 | 0.705 4.862 | 0.438 1.570 | 0.249 0.416 | 0.312 0.346 | 0.231 0.223 | 0.269 0.291 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 | 0.147 0.147 |
| 1.2 | 20 | 0.33 | 1.710 33.53 | 0.940 8.035 | 0.584 2.588 | 0.331 0.677 | 0.249 0.346 | 0.312 0.510 | 0.231 0.231 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 1.5 | 25 | 0.42 | 2.138 49.93 | 1.174 11.91 | 0.730 3.834 | 0.415 1.004 | 0.312 0.510 | 0.231 0.231 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 | 0.147 0.147 |
| 1.8 | 30 | 0.50 | 2.565 69.34 | 1.409 16.50 | 0.876 5.277 | 0.498 1.379 | 0.374 0.700 | 0.231 0.223 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 | 0.147 0.147 |
| 2.1 | 35 | 0.58 | 2.993 91.54 | 1.644 21.75 | 1.022 6.949 | 0.581 1.811 | 0.436 0.914 | 0.269 0.291 | 0.231 0.231 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 2.4 | 40 | 0.67 | 1.879 27.66 | 1.168 8.820 | 1.168 8.820 | 0.664 2.290 | 0.499 1.160 | 0.308 0.368 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 | 0.147 0.147 |
| 3.0 | 50 | 0.83 | 2.349 41.40 | 1.460 13.14 | 1.460 13.14 | 0.830 3.403 | 0.623 1.719 | 0.385 0.544 | 0.229 0.159 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 3.6 | 60 | 1.00 | 2.819 69.34 | 1.751 16.50 | 1.751 16.50 | 0.996 5.277 | 0.748 1.379 | 0.462 0.751 | 0.275 0.218 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 4.2 | 70 | 1.12 | 3.288 76.49 | 2.043 24.18 | 2.043 24.18 | 1.162 6.231 | 0.873 3.132 | 0.539 0.988 | 0.321 0.287 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 4.8 | 80 | 1.33 | 2.335 30.87 | 1.328 7.940 | 1.328 7.940 | 0.997 3.988 | 0.616 1.254 | 0.367 0.363 | 0.263 0.164 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 5.4 | 90 | 1.50 | 2.627 38.30 | 1.494 9.828 | 1.494 9.828 | 1.122 4.927 | 0.693 1.551 | 0.413 0.449 | 0.269 0.203 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 6.0 | 100 | 1.67 | 2.919 46.49 | 1.660 11.90 | 1.660 11.90 | 1.247 5.972 | 0.770 1.875 | 0.459 0.542 | 0.329 0.244 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 7.5 | 125 | 2.08 | 3.649 70.41 | 2.075 17.93 | 2.075 17.93 | 1.558 8.967 | 0.962 2.802 | 0.574 0.809 | 0.412 0.365 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 9.0 | 150 | 2.50 | 2.490 25.11 | 1.870 12.53 | 1.870 12.53 | 1.154 3.903 | 0.668 1.124 | 0.494 0.506 | 0.372 0.256 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 10.5 | 175 | 2.92 | 2.904 33.32 | 2.182 16.66 | 2.182 16.66 | 1.347 5.179 | 0.803 1.488 | 0.576 0.670 | 0.434 0.338 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 12 | 200 | 3.33 | 3.319 42.75 | 2.493 21.36 | 2.493 21.36 | 1.539 6.624 | 0.918 1.901 | 0.659 0.855 | 0.496 0.431 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 15 | 250 | 4.17 | 4.149 64.86 | 3.117 32.32 | 3.117 32.32 | 1.924 10.03 | 1.147 2.860 | 0.823 1.282 | 0.620 0.646 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 18 | 300 | 5.00 | 3.740 45.52 | 2.309 14.04 | 2.309 14.04 | 1.377 4.009 | 0.988 1.792 | 0.744 0.903 | 0.577 0.488 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 24 | 400 | 6.67 | 4.987 78.17 | 3.078 24.04 | 3.078 24.04 | 1.836 6.828 | 1.317 3.053 | 1.317 1.530 | 0.992 0.829 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 30 | 500 | 8.33 | 3.848 36.71 | 2.295 10.40 | 2.295 10.40 | 1.347 4.622 | 0.803 2.315 | 0.576 1.254 | 0.434 0.445 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 36 | 600 | 10.0 | 4.618 51.84 | 2.753 14.62 | 2.753 14.62 | 1.976 6.505 | 1.488 3.261 | 1.488 1.757 | 1.155 0.623 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 42 | 700 | 11.7 | 3.212 19.52 | 2.306 8.693 | 2.306 8.693 | 1.736 4.356 | 1.347 3.345 | 1.347 3.345 | 0.879 0.831 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 48 | 800 | 13.3 | 3.671 25.20 | 2.635 11.18 | 2.635 11.18 | 1.984 5.582 | 1.540 3.009 | 1.540 3.009 | 1.005 1.066 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 54 | 900 | 15.0 | 4.130 31.51 | 2.964 13.97 | 2.964 13.97 | 2.232 6.983 | 1.732 3.762 | 1.732 3.762 | 1.130 1.328 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 60 | 1000 | 16.7 | 4.589 38.43 | 3.294 17.06 | 3.294 17.06 | 2.480 8.521 | 1.925 4.595 | 1.925 4.595 | 1.256 1.616 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 75 | 1250 | 20.8 | 4.117 26.10 | 3.100 13.00 | 3.100 13.00 | 2.406 7.010 | 1.570 2.458 | 1.570 2.458 | 1.097 1.027 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 90 | 1500 | 25.0 | 4.941 36.97 | 3.720 18.42 | 3.720 18.42 | 2.887 9.892 | 1.883 3.458 | 1.883 3.458 | 1.316 1.444 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 105 | 1750 | 29.2 | 4.340 24.76 | 3.368 13.30 | 3.368 13.30 | 1.883 3.468 | 1.535 1.934 | 1.535 1.934 | 1.097 1.097 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 120 | 2000 | 33.3 | 4.960 31.94 | 3.850 17.16 | 3.850 17.16 | 2.197 4.665 | 1.754 2.496 | 1.754 2.496 | 1.293 1.293 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 150 | 2500 | 41.7 | 4.812 26.26 | 2.511 5.995 | 2.511 5.995 | 2.193 3.807 | 1.535 2.193 | 1.535 2.193 | 1.097 1.097 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 180 | 3000 | 50.0 | 3.139 9.216 | 2.632 5.417 | 2.632 5.417 | 2.632 5.417 | 1.754 2.496 | 1.754 2.496 | 1.293 1.293 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 240 | 4000 | 66.7 | 3.767 13.05 | 3.509 8.926 | 3.509 8.926 | 3.509 8.926 | 2.193 3.807 | 2.193 3.807 | 1.535 2.193 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 300 | 5000 | 83.3 | 5.523 22.72 | 4.386 14.42 | 4.386 14.42 | 4.386 14.42 | 2.193 3.807 | 2.193 3.807 | 1.535 2.193 | 0.269 0.269 | 0.223 0.223 | 0.203 0.203 | 0.185 0.185 | 0.166 0.166 |
| 90°C bends slide valves | | | 1.0 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 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 | 6.0 | 7.0 | 9.0 |

The table is calculated in accordance with H. Lang's new formula a = 0.02 and for a water temperature of 10°C

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



Table of Head Losses in Plastic Pipes

www.liforcepumps.com



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

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

| Quantity of Water | | | PELM/PEH PN 10 | | | | | | | | | | | | | | |
|-------------------|-------------|-------------|----------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|--|--|--|
| m ³ /h | Litres/min. | Litres/sec. | PELM | | | | PEH | | | | | | | | | | |
| | | | 25 20.4 | 32 26.2 | 40 32.6 | 50 40.8 | 63 51.4 | 75 73.6 | 90 73.6 | 110 90.0 | 125 102.2 | 140 114.06 | 160 130.8 | 180 147.2 | | | |
| 0.6 | 10 | 0.16 | 0.49 1.8 | 0.30 0.66 | 0.19 0.27 | 0.12 0.085 | | | | | | | | | | | |
| 0.9 | 15 | 0.25 | 0.76 4.0 | 0.46 1.14 | 0.3 0.6 | 0.19 0.18 | 0.12 0.63 | | | | | | | | | | |
| 1.2 | 20 | 0.33 | 1.0 6.4 | 0.61 2.2 | 0.39 0.9 | 0.25 0.28 | 0.16 0.11 | | | | | | | | | | |
| 1.5 | 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 | | | | | | | | | |
| 1.8 | 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 | | | | | | | | | |
| 2.1 | 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 | | | | | | | | | |
| 2.4 | 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 | | | | | | | | |
| 3.0 | 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 | | | | | | | | |
| 3.6 | 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 | | | | | | | |
| 4.2 | 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 | | | | | | | |
| 4.8 | 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 | | | | | | | |
| 5.4 | 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 | | | | | | |
| 6.0 | 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 | | | | | | |
| 7.5 | 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 1.10 | 0.20 0.055 | | | | | |
| 9.0 | 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 | | | | | |
| 10.5 | 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 | | | | | |
| 12 | 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 | | | | |
| 15 | 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 | | | |
| 18 | 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 | | | |
| 24 | 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 | | | |
| 30 | 500 | 8.33 | | | | | 4.01 28.0 | 2.81 11.5 | 1.96 5.0 | 1.0 2.0 | 1.02 1.20 | 0.81 0.63 | 0.62 0.33 | 0.49 0.21 | | | |
| 36 | 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 | | | |
| 42 | 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 | | | |
| 48 | 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 | | | |
| 54 | 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 | 0.8 0.58 | | | |
| 60 | 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 | | | |
| 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 | | | |
| 90 | 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 | | | |
| 105 | 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 | | | |
| 120 | 2000 | 33.3 | | | | | | | | 5.23 23.0 | 4.06 13.0 | 3.23 7.0 | 2.48 4.0 | 1.96 2.4 | | | |
| 150 | 2500 | 41.7 | | | | | | | | 6.55 34.0 | 5.08 18.0 | 4.04 10.5 | 3.10 6.0 | 2.45 3.5 | | | |
| 180 | 3000 | 50.0 | | | | | | | | 7.86 45.0 | 6.1 27.0 | 4.85 14.0 | 3.72 7.6 | 2.94 7.5 | | | |
| 240 | 4000 | 66.7 | | | | | | | | | 8.13 43.0 | 6.47 24.0 | 4.96 13.0 | 3.92 7.5 | | | |
| 300 | 5000 | 83.3 | | | | | | | | | | 8.08 33.0 | 6.2 18.0 | 4.89 11.0 | | | |

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

Subject to alterations





LIFE FORCE
Pumps | Motors



PUMPS | PIPES | CABLES | SOLAR PUMPS



ISO 9001:2015 & CE Certified Company



LIFE FORCE PUMPS LLP

Manufacturer of Stainless Steel Submersible Pumps

Email : info@lifeforcepumps.com
Website : www.lifeforcepumps.com
Phone : +91 89828 88747

Plot no 61 Dhannad Road Near Khedapati,
By Pass Road, Sector-1 Pithampur
District. Dhar-454775 (M.P.) INDIA