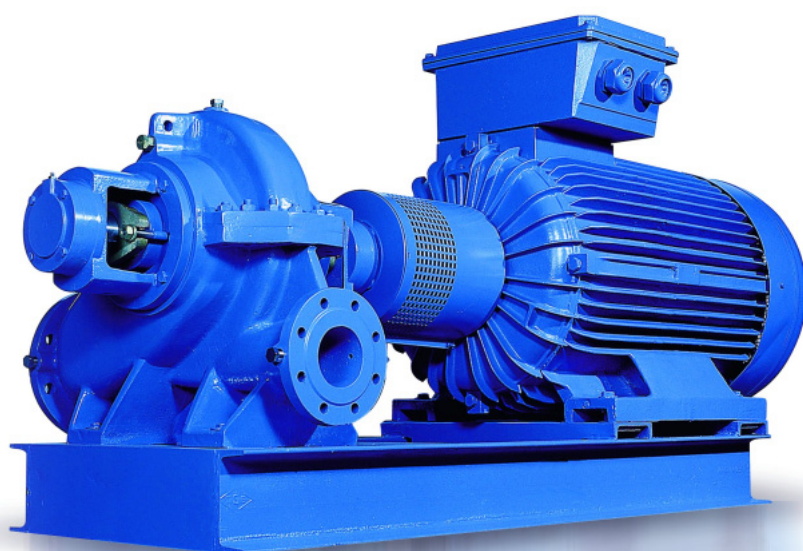


## Split case double suction centrifugal pump

Technical data  
Serie: DPAS C



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### 3 Dimensions

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# 1 Introduction

## 1.1 Fields of Application

- Water supply and booster stations
- Irrigation, overhead irrigation
- Drainage stations
- Power stations
- Industrial water supply systems
- Fire fighting systems
- Marine applications
- General applications in refineries

## 1.2 Pumped Liquids

Thin, clean, non-aggressive and non-explosive liquids free from large solid particles or fibres.

## 1.3 Design

- Single-stage axially split casing pumps with double entry and radial impeller
- Double entry, closed impeller is hydraulically thrust compensated.
- Lower casing is in-line design, suction and discharge nozzles are on the same line
- Upper casing is self-aligning and it is easy to mount
- The NPSH values are reduced and high suction lifts are possible thanks to double suction impeller
- Short shaft design: For mechanical seal applications, shaft length can be reduced. Therefore, compact and rigid pumps are available
- Pump and motor are separate components connected to each other via flexible coupling and mounting on a base plate.

## 1.5 Shaft Seal

Burgmann MG1

- Single Seal
- Unbalanced
- Elastomer Bellows
- Independent on direction of rotation
- $p = 12 \text{ bar}$
- $t = -20 \dots 120 \text{ °C}$

\*Different types of mechanical seals are available

## 1.6 Materials

| Component                 | Material               |
|---------------------------|------------------------|
| Casing                    | 0.6025 / GJL-250       |
| Impeller                  | 0.6025 / GJL-250       |
| Shaft                     | 1.4021 / X20 Cr 13     |
| Casing wear ring          | 2.1050.01 / G-Cu Sn 10 |
| Gland                     | 0.7040 / GJS-400-15    |
| Bearing housing and cover | 0.6025 / GJL-250       |

\*Different materials for pump casing, impeller, shaft and wear ring are available.

## 1.4 Bearings

For pumps groups A, B and C, there are ball bearings at the both dead and drive end of the pump. see

For pump groups D, E and F, a cylindrical roller bearing is installed at the drive end of the pump and there is a ball bearing at the dead end of the pump. see

## 1.7 Model key

The pumps are designated as according to the following table

| DPAS | C | 65 | 250 | 200 | 2P-60 Hz | 37kW | - D | - K |                                                                                                                                                                                                                  |
|------|---|----|-----|-----|----------|------|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DPAS |   |    |     |     |          |      |     |     | Pump series horizontal split case                                                                                                                                                                                |
|      | C |    |     |     |          |      |     |     | Casing material<br>C = Cast iron GG25 (DP standard)<br>D = Nodulair Cast Iron GGG40<br>E = Cast Bronze G-CuSn 10<br>F = Chrome Nickel Steel X5 Cr Ni 18.9<br>G = Chrome Nickel Molybdeen Steel X5 Cr Ni Mo 18.10 |
|      |   | 65 |     |     |          |      |     |     | Pump type = size discharge connection PN16                                                                                                                                                                       |
|      |   |    | 250 |     |          |      |     |     | Nominal diameter impeller in mm                                                                                                                                                                                  |
|      |   |    |     | 200 |          |      |     |     | Reduced diameter impeller in mm                                                                                                                                                                                  |
|      |   |    |     |     | 2P-60Hz  |      |     |     | 2P-50 Hz<br>4P-50Hz<br>2P-60 Hz<br>4P-60 Hz<br>xx = bare shaft                                                                                                                                                   |
|      |   |    |     |     |          | 37   |     |     | Motor power P2 in kW                                                                                                                                                                                             |
|      |   |    |     |     |          |      | D   |     | impeller material<br>- = GG25 - DP standard<br>D = Nodulair Cast Iron GGG40<br>E = Cast Bronze G-CuSn 10<br>F = Chrome Nickel Steel X5 Cr Ni 18.9<br>G = Chrome Nickel Molybdeen Steel X5 Cr Ni Mo 18.10         |
|      |   |    |     |     |          |      |     | K   | Mechanical seal (Burgman)<br>- = MG1 DP standard<br>K = M7N - M74N - M78N<br>L = M3N - M32N - M37N - M37GN<br>M = HJ92 - HJ977N - SHJ97G<br>N = BT-AR<br>X = special                                             |

## 1.8 Motor data

B5 flanged, IP 55 and according to IEC electric motors are used for DPAS series pumps. The motors are suitable for inverter usage according IEC 60034.

Table 1: Motor data 50Hz 2 pole

| Power | Inom [A] | Ia/In | Cos phi | Eff [%] | Motor voltage [V] | n [rpm] | IEC con-<br>nection | mass [kg] | Sound pressure<br>level dB(A) |
|-------|----------|-------|---------|---------|-------------------|---------|---------------------|-----------|-------------------------------|
| 1,5   | 3,3      | 8,2   | 0,78    | 81,3    | 230/400           | 2890    | 90L2                | 17,5      | 62                            |
| 2,2   | 4,4      | 8,3   | 0,89    | 83,2    | 230/400           | 2880    | 90L2                | 18        | 62                            |
| 3     | 5,8      | 9,6   | 0,88    | 84,6    | 230/400           | 2885    | 100L2               | 26        | 64                            |
| 4     | 7,7      | 9,5   | 0,87    | 85,8    | 400/692           | 2895    | 112M2               | 31        | 67                            |
| 5,5   | 10,2     | 9,1   | 0,87    | 87      | 400/692           | 2935    | 132S2               | 47        | 70                            |
| 7,5   | 13,6     | 9,1   | 0,9     | 88,1    | 400/692           | 2925    | 132M2               | 53        | 70                            |
| 11    | 19,4     | 8,1   | 0,9     | 89,4    | 400/692           | 2945    | 160M2               | 70        | 71                            |
| 15    | 25,7     | 8,2   | 0,92    | 90,3    | 400/692           | 2935    | 160L2               | 82        | 71                            |
| 18,5  | 31,4     | 8,1   | 0,92    | 90,9    | 400/692           | 2945    | 160L2               | 92        | 71                            |
| 22    | 37,5     | 7,8   | 0,90    | 91,3    | 400/692           | 2960    | 180M2               | 112       | 77                            |
| 30    | 55,1     | 8,2   | 0,85    | 92      | 400/692           | 2960    | 200L2               | 162       | 80                            |
| 37    | 65       | 8     | 0,91    | 92,5    | 400/692           | 2960    | 200L2               | 179       | 80                            |
| 45    | 82,1     | 8,1   | 0,85    | 92,9    | 400/692           | 2960    | 225M2               | 251       | 81                            |

Table 2: Motor data 50Hz 4 pole

| Power | Inom [A] | Ia/In | Cos phi | Eff [%] | Motor voltage [V] | n [rpm] | IEC connection | mass [kg] | Sound pressure level dB(A) |
|-------|----------|-------|---------|---------|-------------------|---------|----------------|-----------|----------------------------|
| 0,25  | 0,8      | 4,6   | 0,7     | 74      | 230/400           | 1415    | 71M4           | 9         | 45                         |
| 0,37  | 0,95     | 4,6   | 0,71    | 76,1    | 230/400           | 1420    | 71M4           | 9,5       | 45                         |
| 0,55  | 1,45     | 5     | 0,71    | 78,1    | 230/400           | 1425    | 80M4           | 12        | 49                         |
| 0,75  | 1,9      | 5,5   | 0,72    | 79,6    | 230/400           | 1430    | 80M4           | 12,5      | 49                         |
| 1,1   | 2,4      | 7     | 0,83    | 81,4    | 230/400           | 1430    | 90L4           | 17,5      | 54                         |
| 1,5   | 3,4      | 3,4   | 0,75    | 82,8    | 230/400           | 1440    | 90L4           | 18        | 55                         |
| 2,2   | 5        | 8     | 0,73    | 84,3    | 230/400           | 1440    | 100L4          | 25        | 56                         |
| 3     | 6,6      | 7,5   | 0,76    | 85,5    | 230/400           | 1435    | 100L4          | 26        | 56                         |
| 4     | 8,4      | 8,6   | 0,79    | 86,6    | 400/692           | 1440    | 112M4          | 34        | 58                         |
| 5,5   | 11,3     | 8,7   | 0,78    | 87,7    | 400/692           | 1460    | 132M4          | 55        | 61                         |
| 7,5   | 15       | 9,5   | 0,81    | 88,7    | 400/692           | 1460    | 132M4          | 57        | 61                         |
| 11    | 22,2     | 8     | 0,79    | 89,8    | 400/692           | 1460    | 160M4          | 77        | 63                         |
| 15    | 28,8     | 8     | 0,83    | 90,6    | 400/692           | 1460    | 160L4          | 92        | 63                         |
| 18.5  | 35,1     | 7,5   | 0,84    | 91,2    | 400/692           | 1455    | 180M4          | 120       | 69                         |
| 22    | 40,6     | 7,5   | 0,86    | 91,6    | 400/692           | 1460    | 180L4          | 135       | 69                         |
| 30    | 55,7     | 8     | 0,85    | 92,3    | 400/692           | 1470    | 200L4          | 168       | 70                         |
| 37    | 69       | 8,2   | 0,84    | 92,7    | 400/692           | 1480    | 225M4          | 260       | 71                         |
| 45    | 83,3     | 8     | 0,83    | 93,1    | 400/692           | 1480    | 225M4          | 289       | 71                         |

## 2 Specifications DPAS

### 2.1 DPAS 65-250 4P

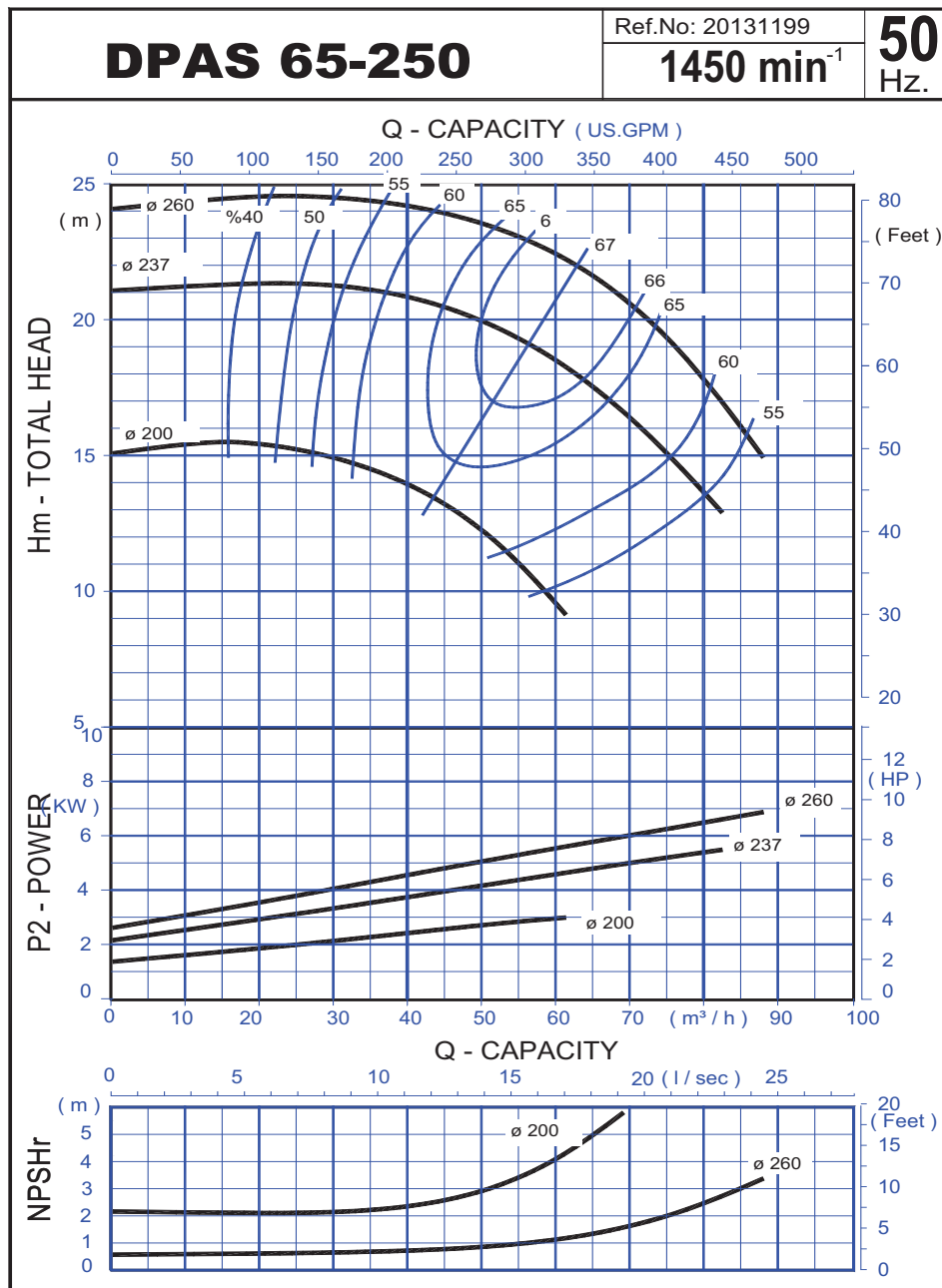


Table 3: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|--------------|
| 65-250 | 260                    | 7,5     | 105            | 40654127D260 |
| 65-250 | 237                    | 5,5     | 105            | 40654127D237 |
| 65-250 | 200                    | 4       | 105            | 40654127D200 |

## 2.2 DPAS 65-250 2P

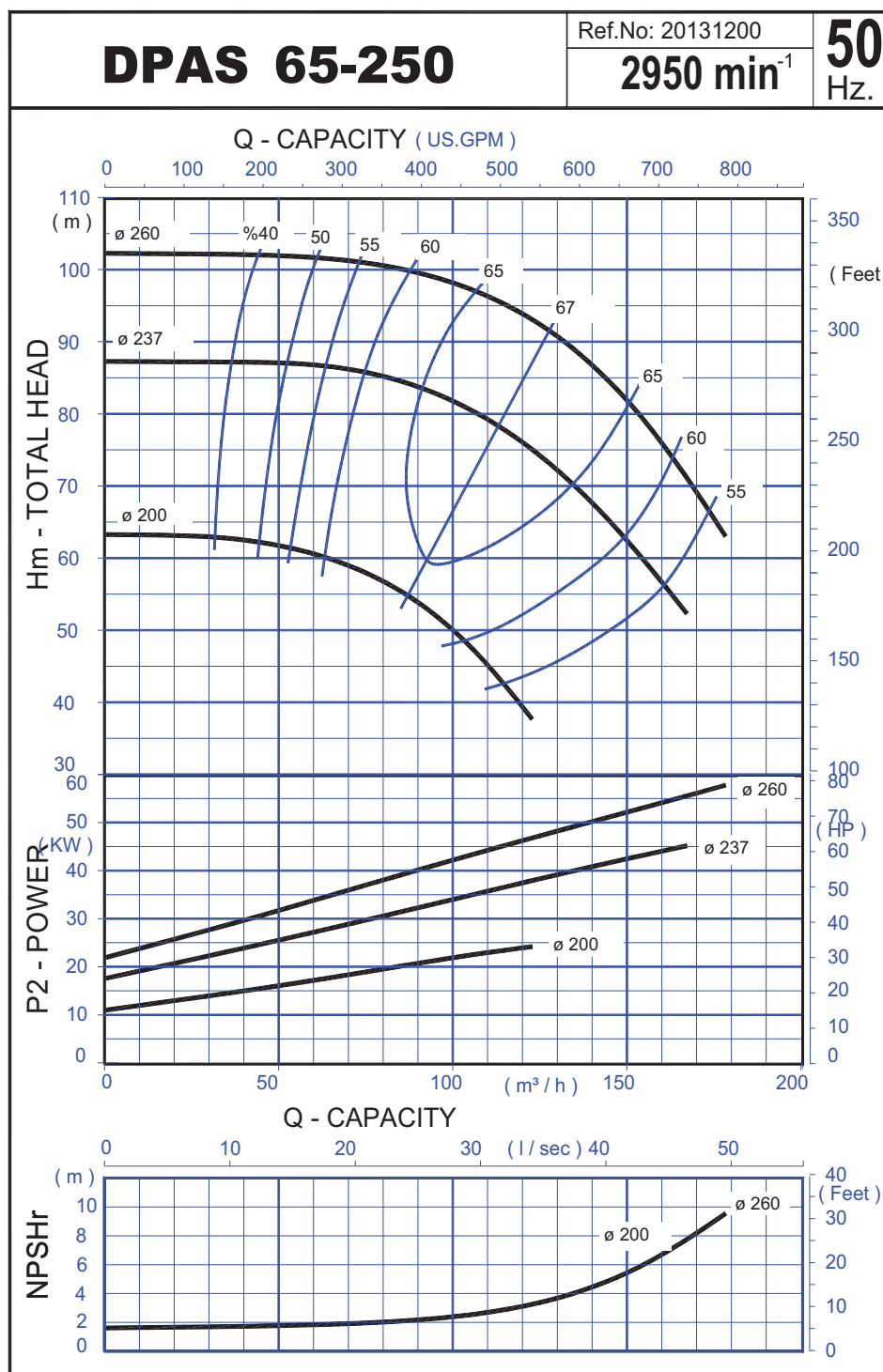


Table 4: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|--------------|
| 65-250 | 260                    | 55      | 105            | 40654125D260 |
| 65-250 | 237                    | 45      | 105            | 40654125D237 |
| 65-250 | 200                    | 37      | 105            | 40654125D200 |

## 2.3 DPAS 80-250 4P

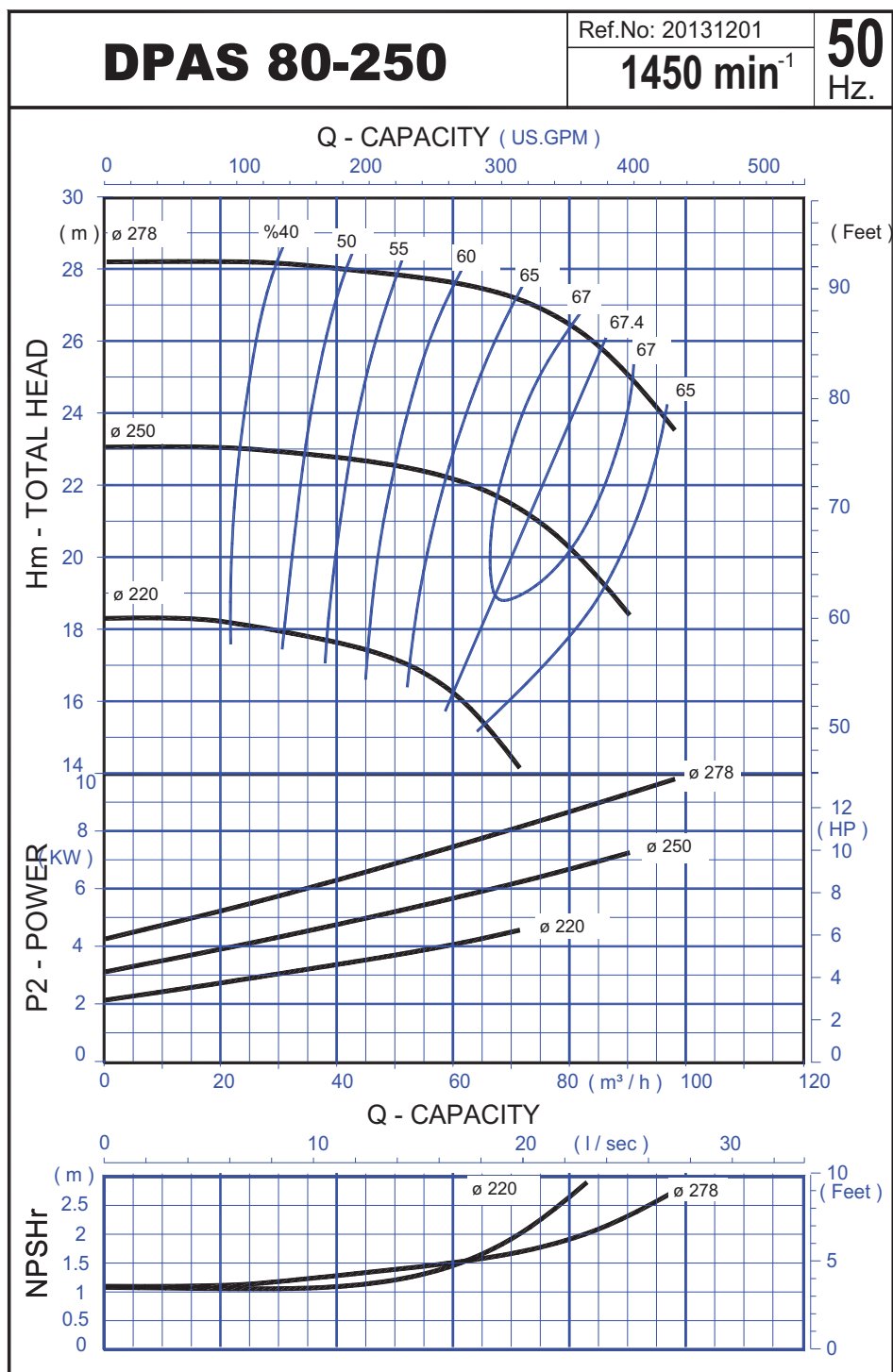


Table 5: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|--------------|
| 80-250 | 278                    | 11      | 145            | 40804127D278 |
| 80-250 | 250                    | 7,5     | 145            | 40804127D250 |
| 80-250 | 220                    | 5,5     | 145            | 40804127D220 |

2.4 DPAS 80-250 2P

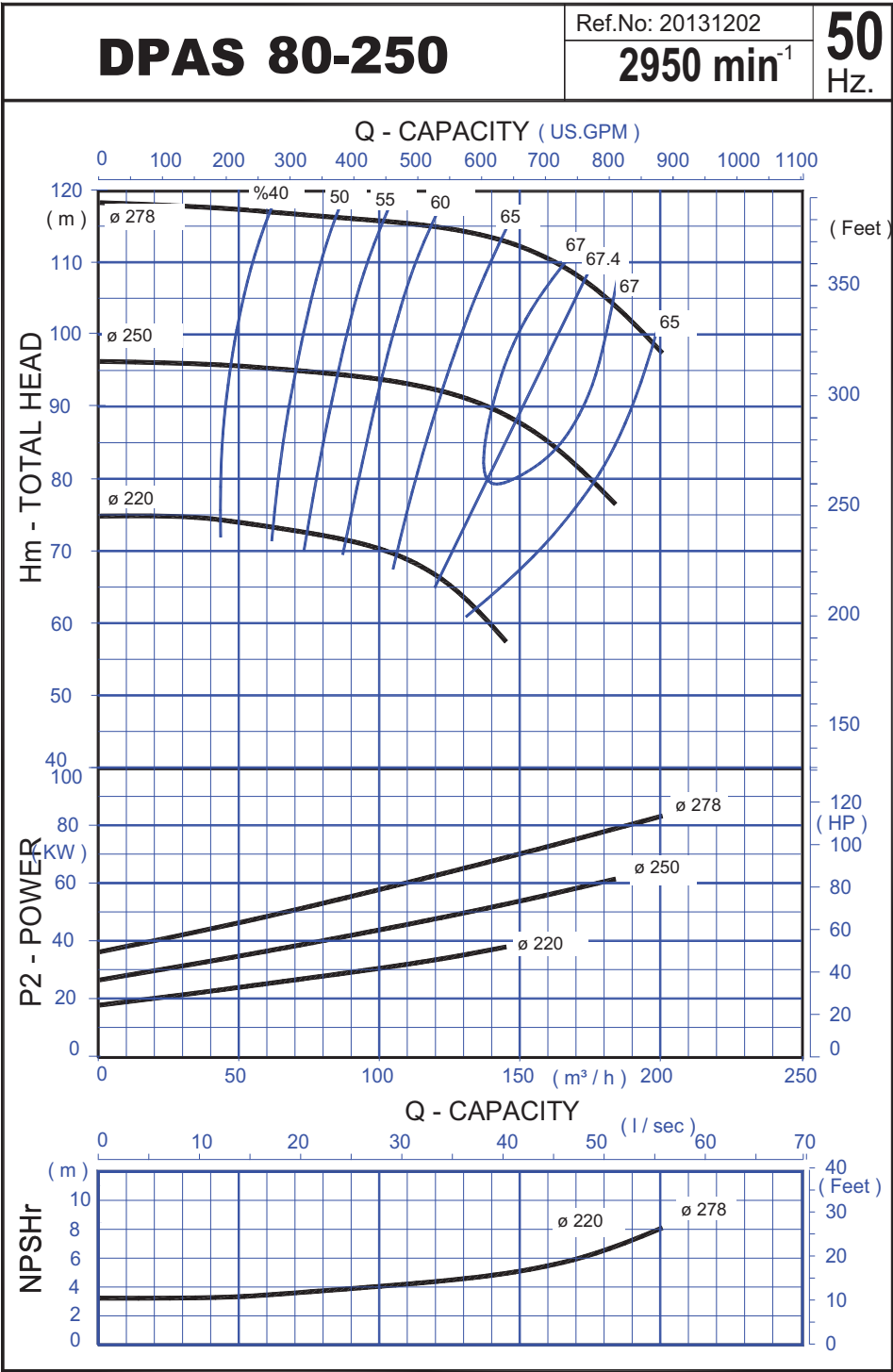


Table 6: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Motormass [kg] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|----------------|--------------|
| 80-250 | 278                    | 90      |                | 145            | 40804125D278 |
| 80-250 | 250                    | 75      |                | 145            | 40804125D250 |
| 80-250 | 220                    | 45      |                | 145            | 40804125D220 |

## 2.5 DPAS 80-360 4P

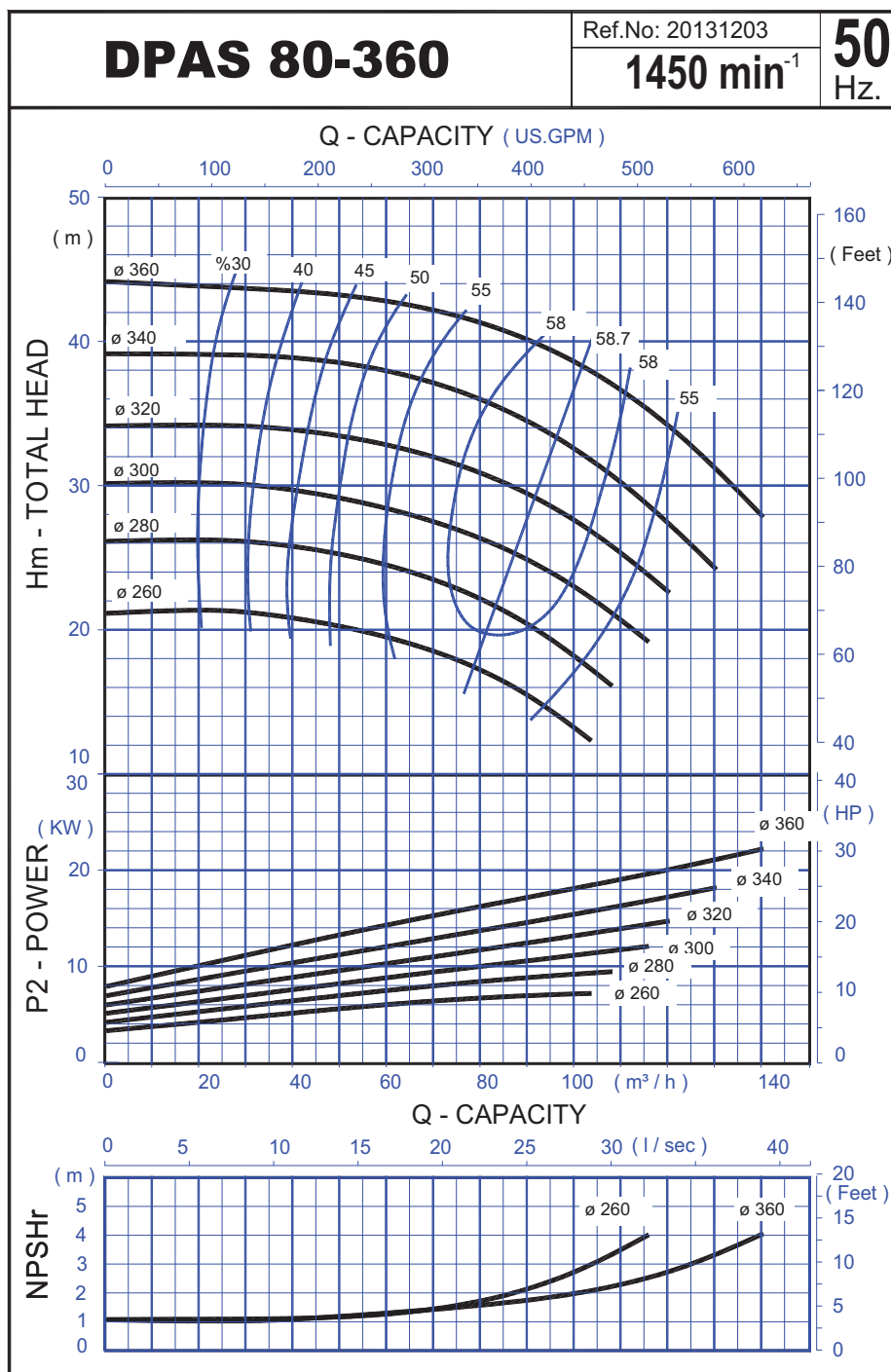
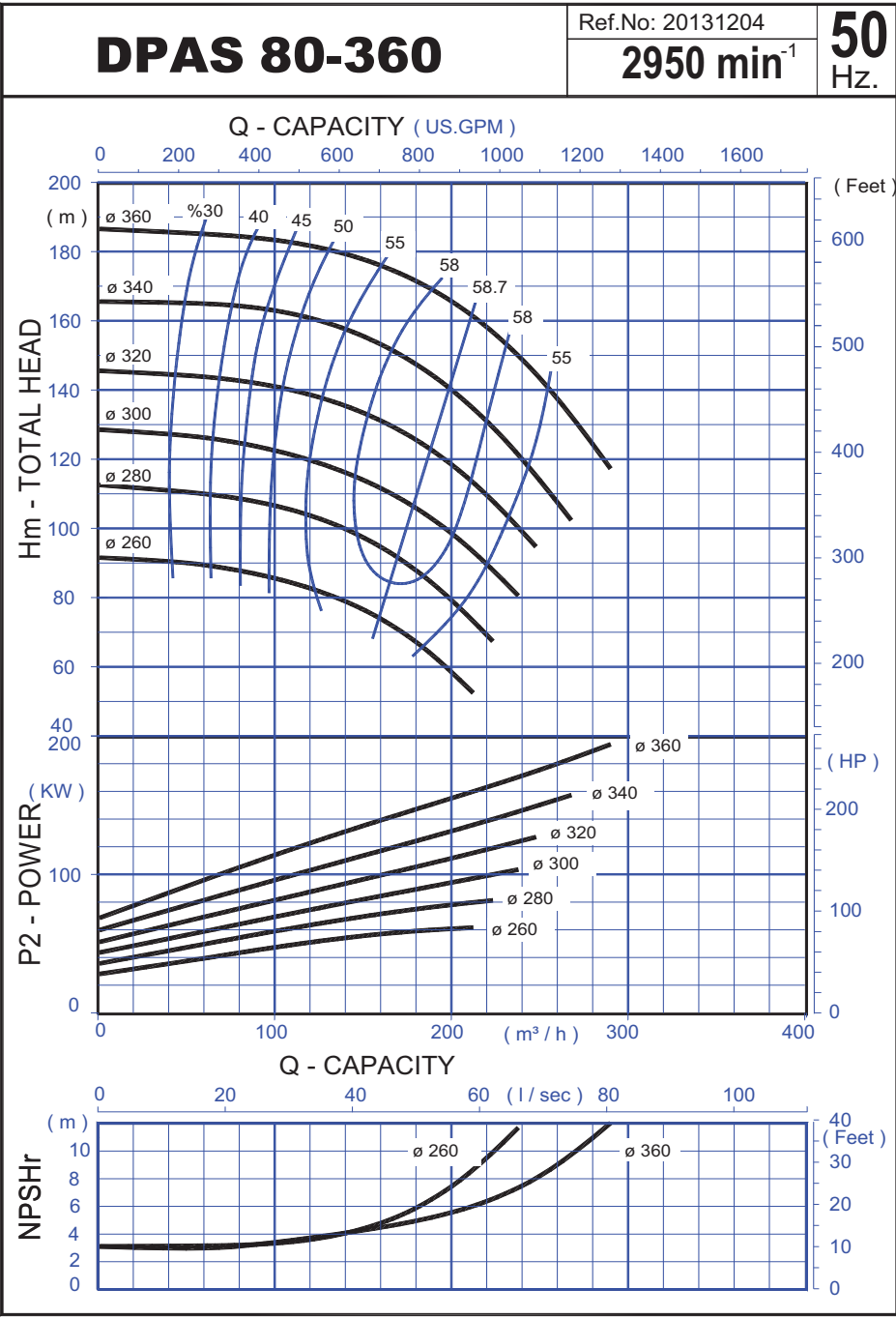


Table 7: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|--------------|
| 80-360 | 360                    | 22      | 165            | 40807127D360 |
| 80-360 | 340                    | 18,5    | 165            | 40807127D340 |
| 80-360 | 320                    | 15      | 165            | 40807127D320 |
| 80-360 | 300                    | 11      | 165            | 40807127D300 |
| 80-360 | 280                    | 7,5     | 165            | 40807127D280 |
| 80-360 | 260                    | 7.5     | 165            | 40807127D260 |

2.6 DPAS 80-360 2P



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Table 8: General data

| Model  | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|--------|------------------------|---------|----------------|--------------|
| 80-360 | 360 (Bronze)           | 185     | 165            | 40807125D360 |
| 80-360 | 340 (Bronze)           | 160     | 165            | 40807125D340 |
| 80-360 | 320 (Bronze)           | 132     | 165            | 40807125D320 |
| 80-360 | 300                    | 110     | 165            | 40807125D300 |
| 80-360 | 280                    | 90      | 165            | 40807125D280 |
| 80-360 | 260                    | 75      | 165            | 40807125D260 |

2.7 DPAS 100-250 4P

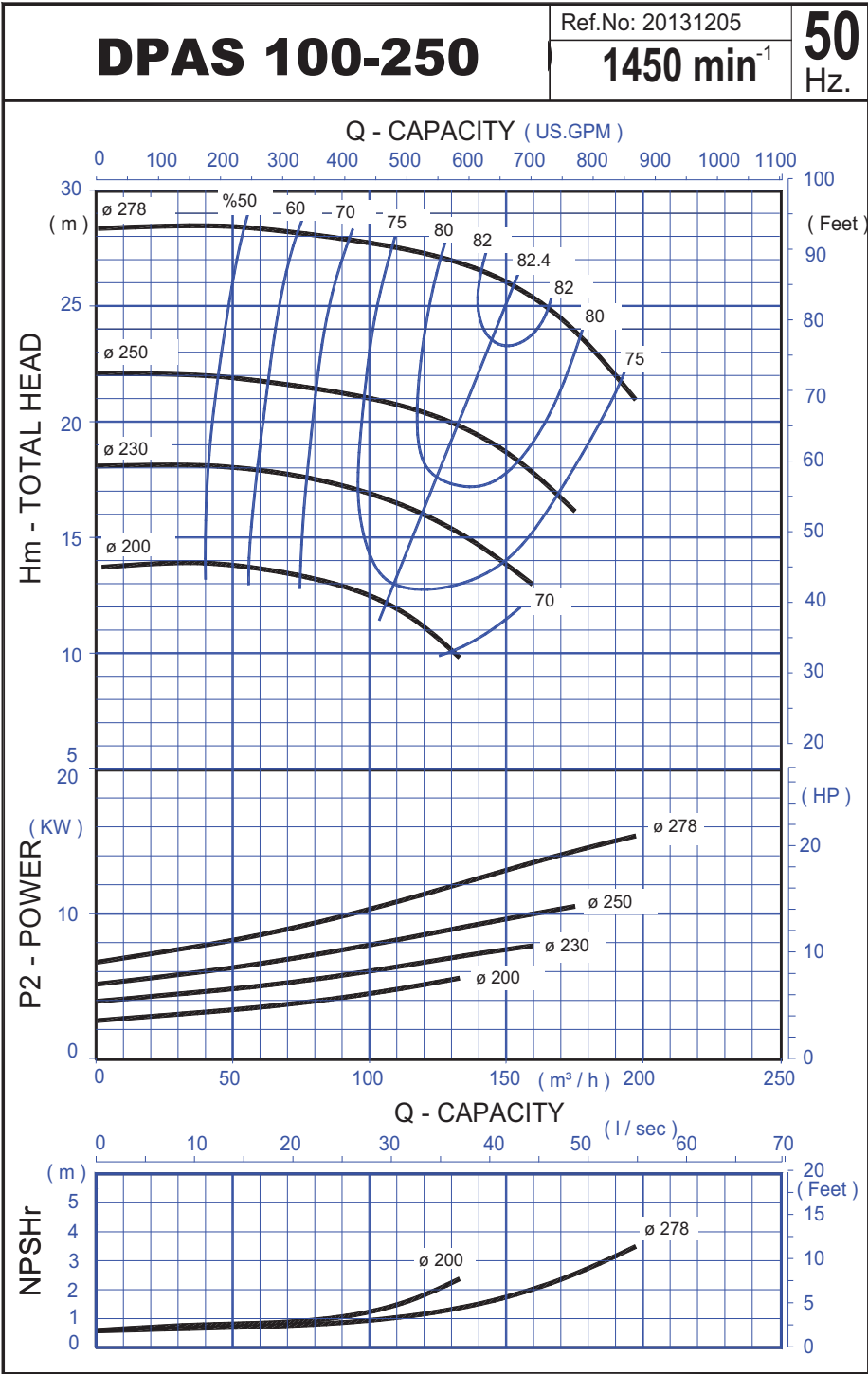


Table 9: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 100-250 | 278                    | 15      | 180            | 41004127D278 |
| 100-250 | 250                    | 11      | 180            | 41004127D250 |
| 100-250 | 230                    | 7,5     | 180            | 41004127D230 |
| 100-250 | 200                    | 5,5     | 180            | 41004127D200 |



2.8 DPAS 100-250 2P

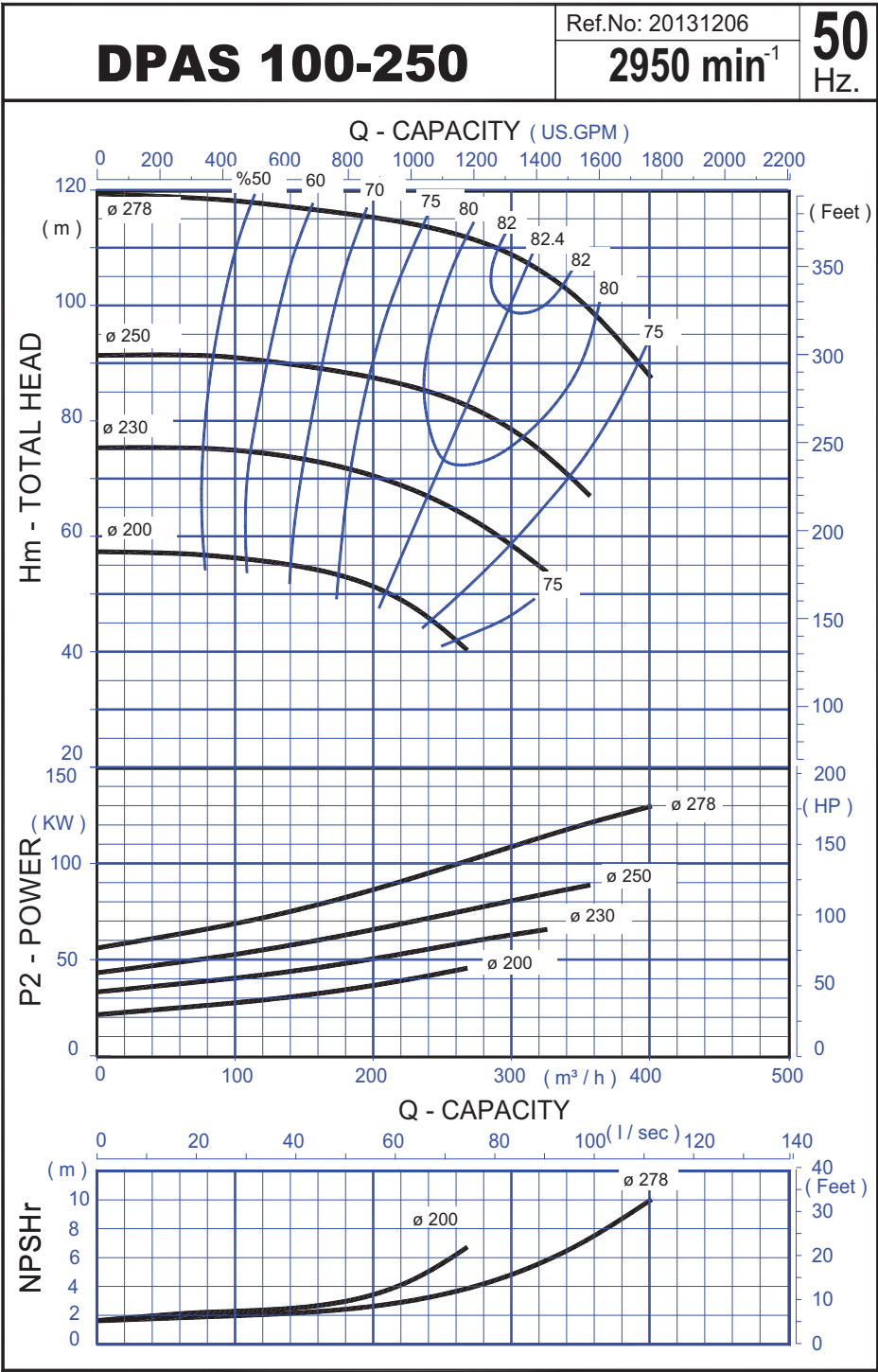


Table 10: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 100-250 | 278                    | 132     | 180            | 41004125D278 |
| 100-250 | 250                    | 90      | 180            | 41004125D250 |
| 100-250 | 230                    | 75      | 180            | 41004125D230 |
| 100-250 | 200                    | 55      | 180            | 41004125D200 |

2.9 DPAS 100-315 4P

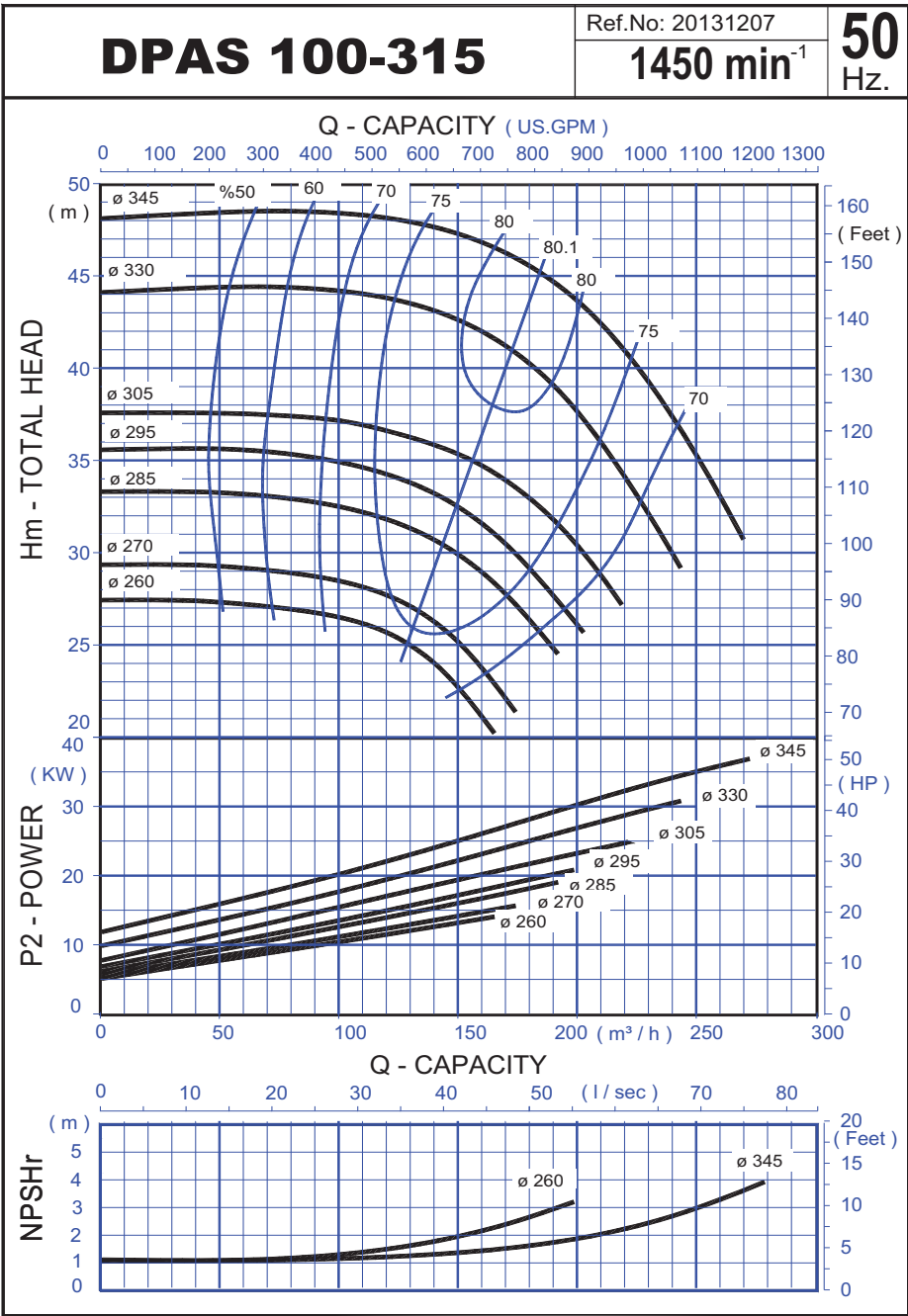


Table 11: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 100-315 | 345                    | 37      | 330            | 41006127D345 |
| 100-315 | 330                    | 30      | 330            | 41006127D330 |
| 100-315 | 305                    | 30      | 330            | 41006127D305 |
| 100-315 | 295                    | 22      | 330            | 41006127D295 |
| 100-315 | 285                    | 18,5    | 330            | 41006127D285 |
| 100-315 | 270                    | 15      | 330            | 41006127D270 |
| 100-315 | 260                    | 15      | 330            | 41006127D260 |



2.10 DPAS 100-315 2P

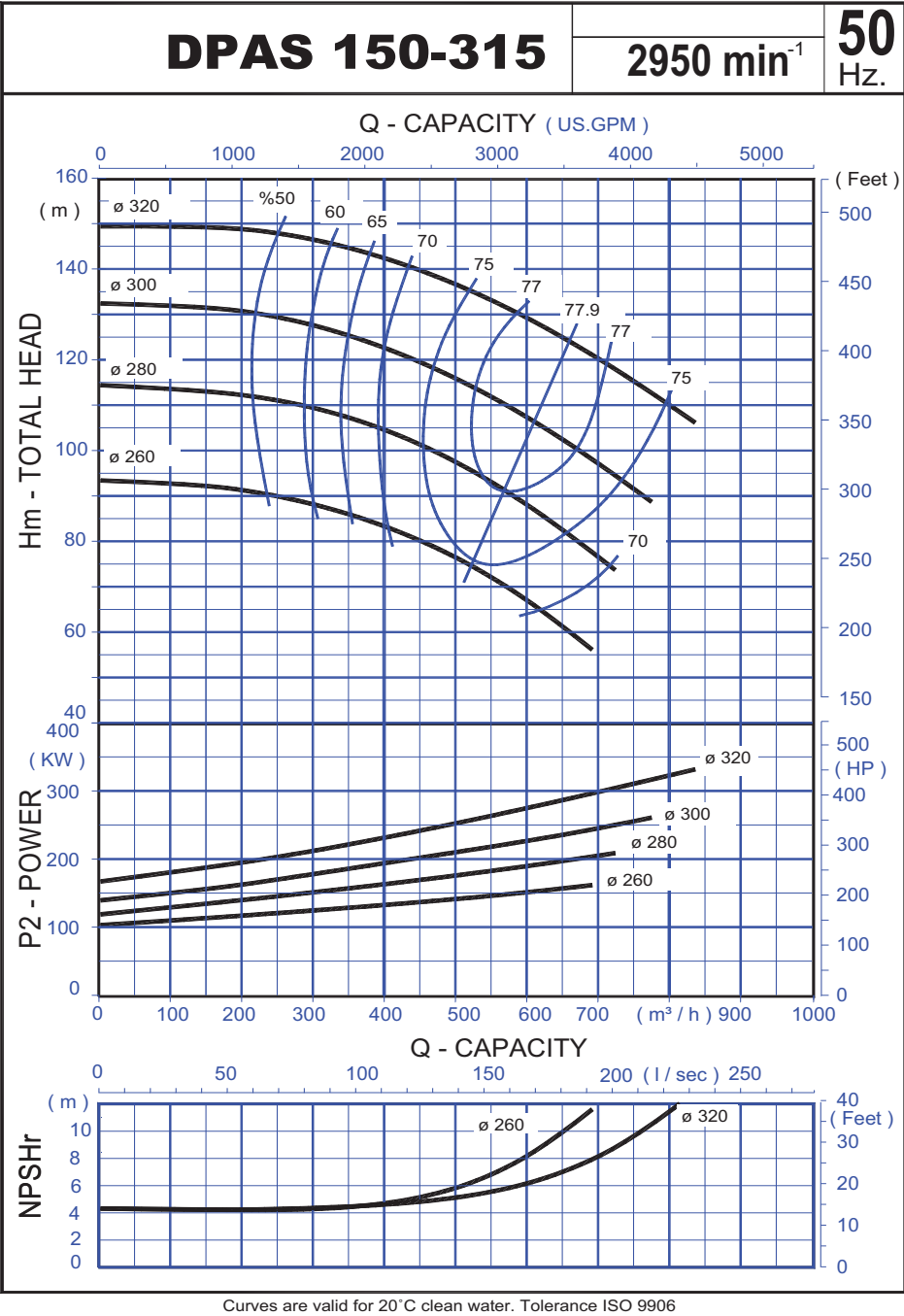
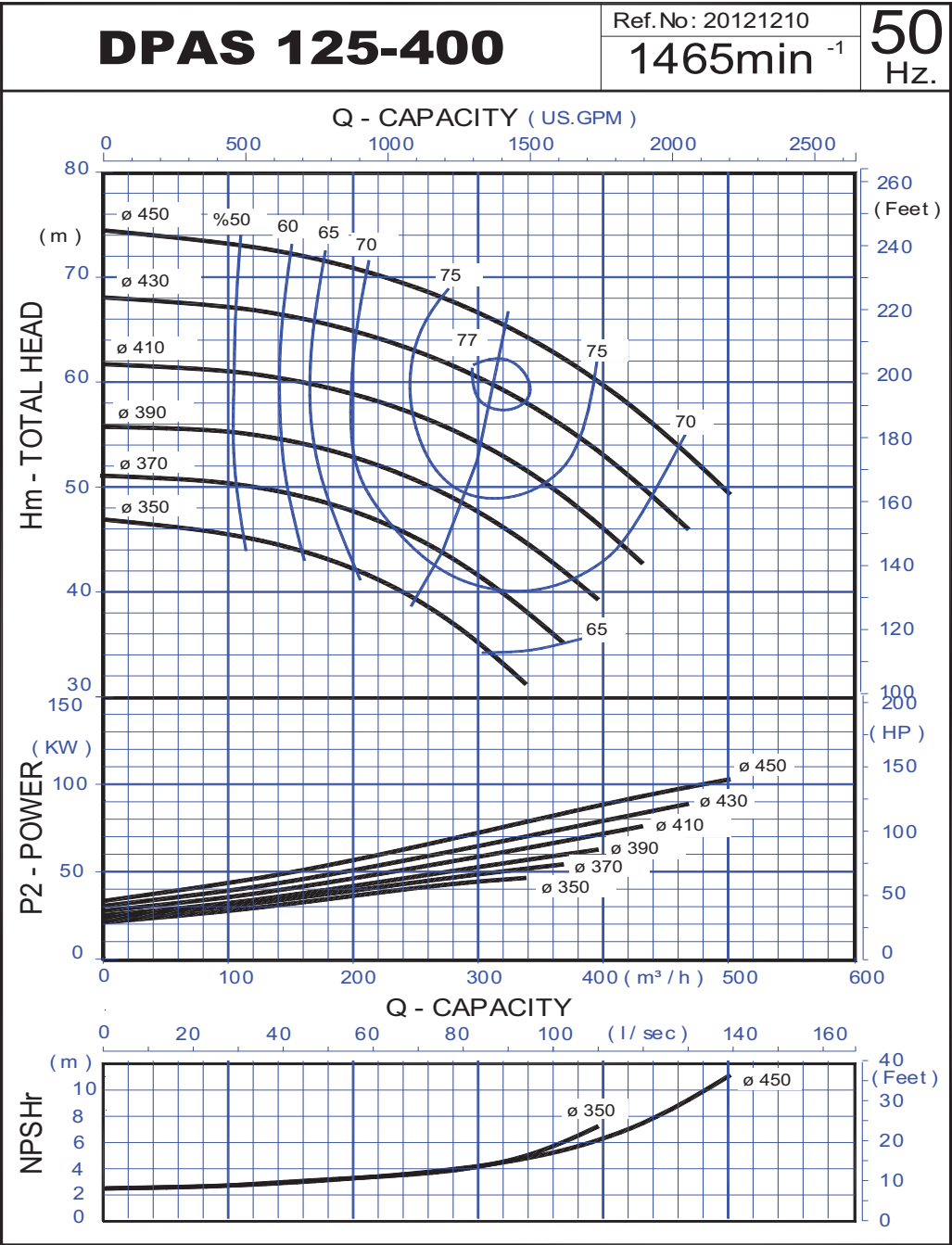


Table 12: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 100-315 | 305                    | 250     | 330            | 41006125D305 |
| 100-315 | 295                    |         | 330            | 41006125D295 |
| 100-315 | 285                    |         | 330            | 41006125D285 |
| 100-315 | 270                    |         | 330            | 41006125D270 |
| 100-315 | 260                    | 110     | 330            | 41006125D260 |

2.11 DPAS 125-400 4P

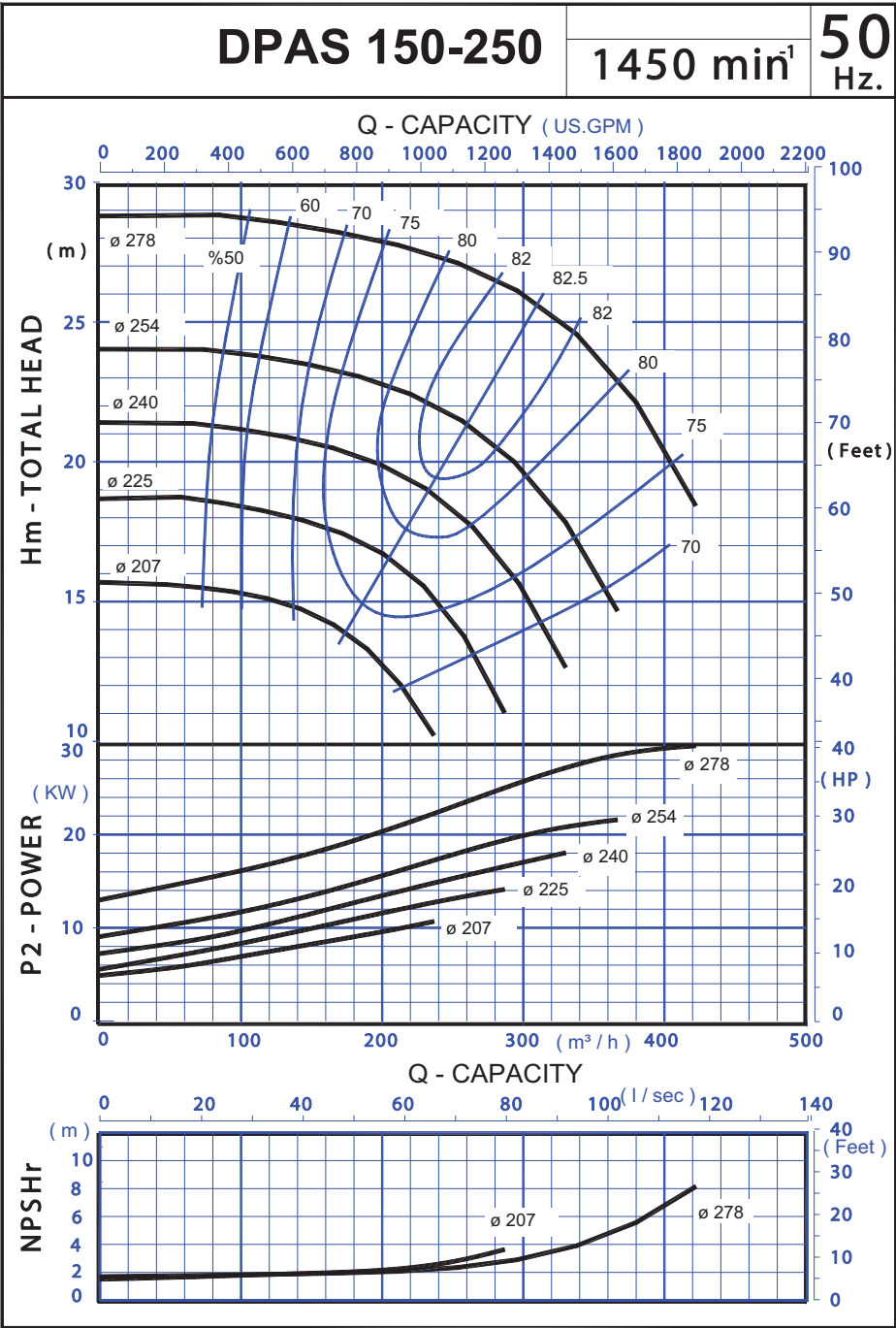


Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 13: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 125-400 | 450                    | 110     | 485            | 41258127D450 |
| 125-400 | 430                    | 90      | 485            | 41258127D430 |
| 125-400 | 410                    | 75      | 485            | 41258127D410 |
| 125-400 | 390                    | 75      | 485            | 41258127D390 |
| 125-400 | 370                    | 55      | 485            | 41258127D370 |
| 125-400 | 350                    | 45      | 485            | 41258127D350 |

2.12 DPAS 150-250 4P

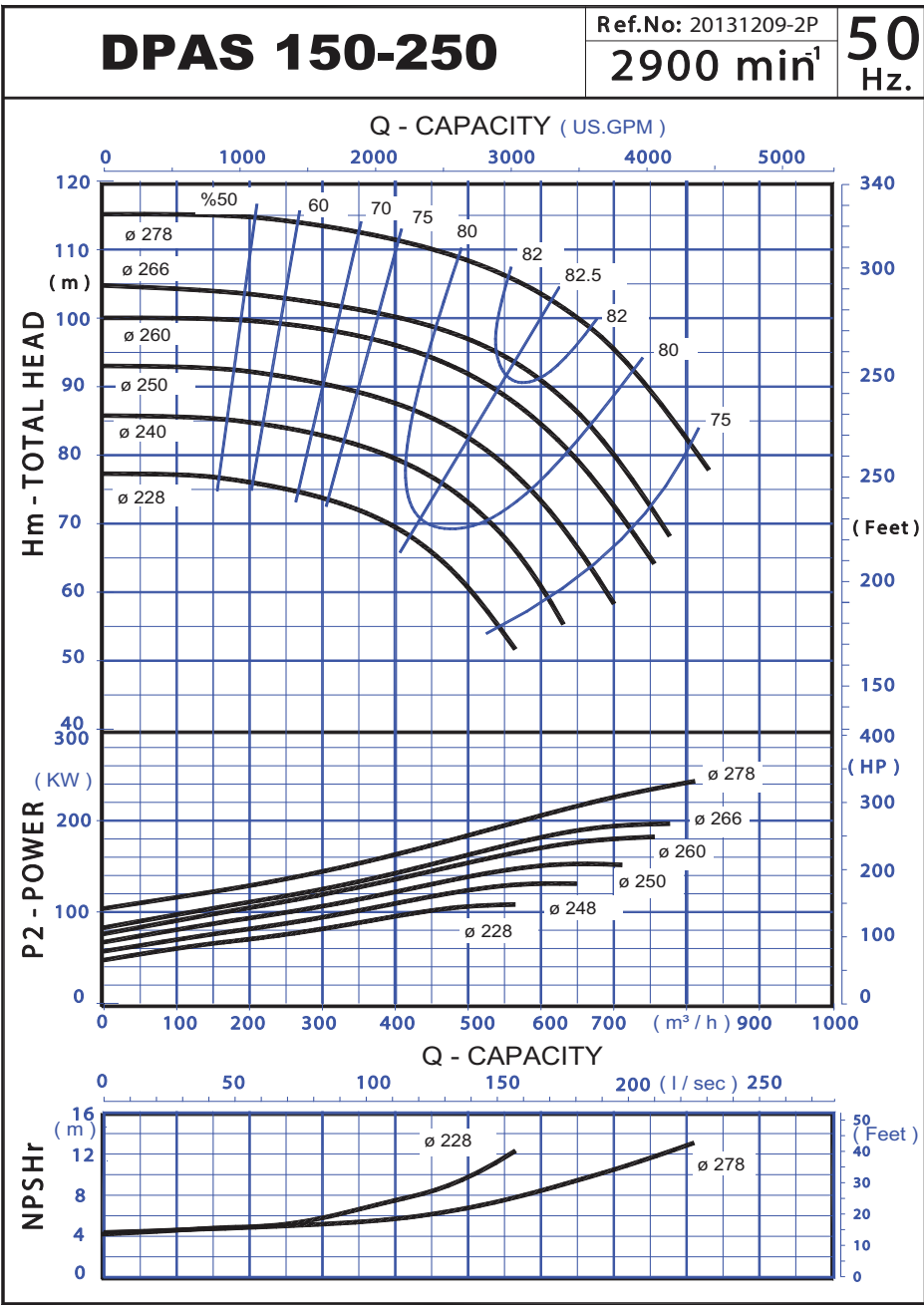


Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 14: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-250 | 278                    | 30      |                | 41504127D278 |
| 150-250 | 254                    | 22      |                | 41504127D254 |
| 150-250 | 240                    | 18,5    |                | 41504127D240 |
| 150-250 | 225                    | 15      |                | 41504127D225 |
| 150-250 | 207                    | 11      |                | 41504127D207 |

2.13 DPAS 150-250 2P



Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 15: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-250 | 278                    | 250     | on request     | 41505025D278 |
| 150-250 | 266                    | 200     | on request     | 41505025D266 |
| 150-250 | 260                    | 185     | on request     | 41505025D260 |
| 150-250 | 250                    | 185     | on request     | 41505025D250 |
| 150-250 | 240                    | 160     | on request     | 41505025D240 |
| 150-250 | 228                    | 132     | on request     | 41505025D228 |

2.14 DPAS 150-315 4P

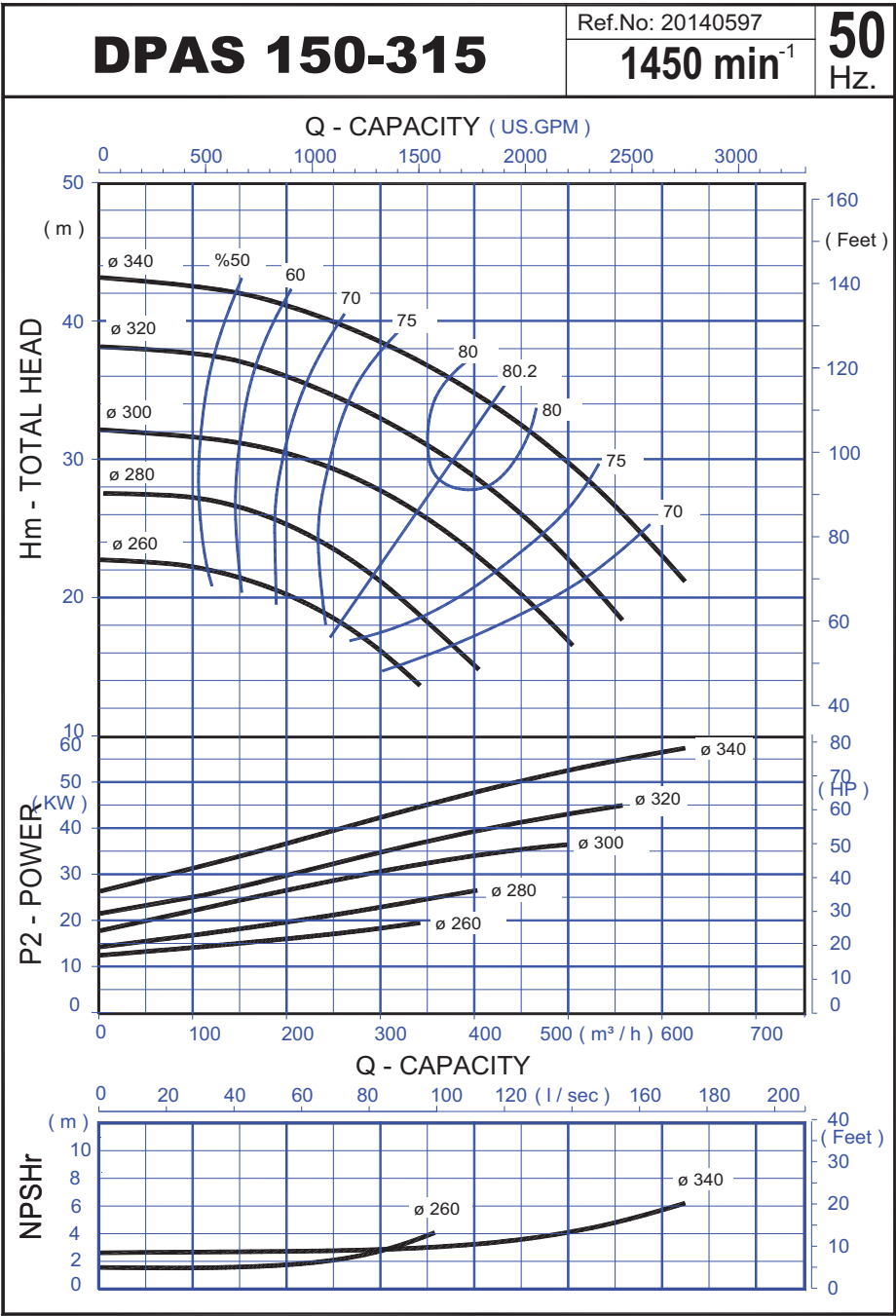


Table 16: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-315 | 340                    | 55      | 410            | 41506127D340 |
| 150-315 | 320                    | 45      | 410            | 41506127D320 |
| 150-315 | 300                    | 37      | 410            | 41506127D300 |
| 150-315 | 280                    | 30      | 410            | 41506127D280 |
| 150-315 | 260                    | 22      | 410            | 41506127D260 |

2.15 DPAS 150-315 2P

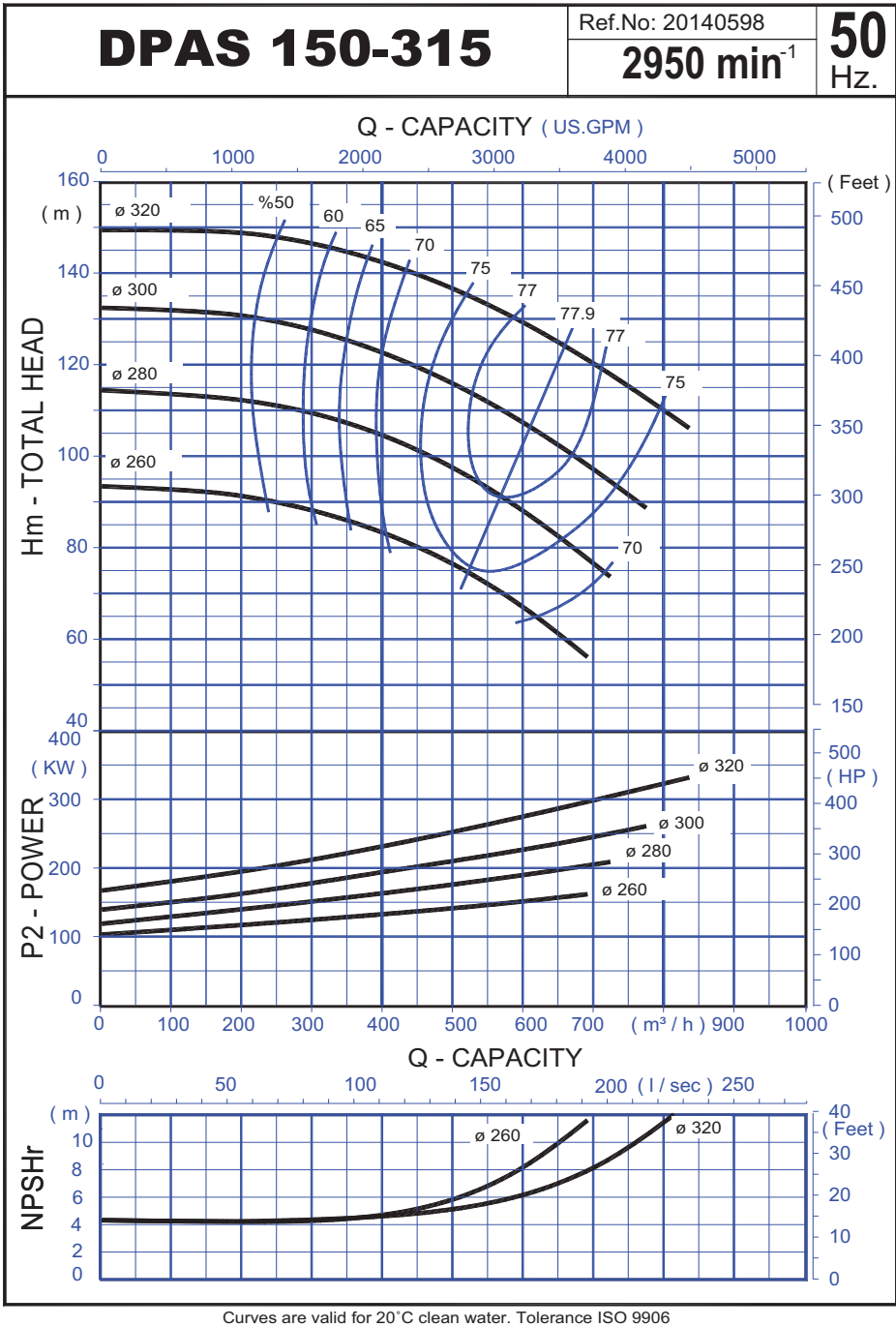


Table 17: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-315 | 320                    | 132     | 515            | 41506125D320 |
| 150-315 | 300                    | 110     | 515            | 41506125D300 |
| 150-315 | 280                    | 90      | 515            | 41506125D280 |
| 150-315 | 260                    | 75      | 515            | 41506125D260 |

2.16 DPAS 150-400 4P

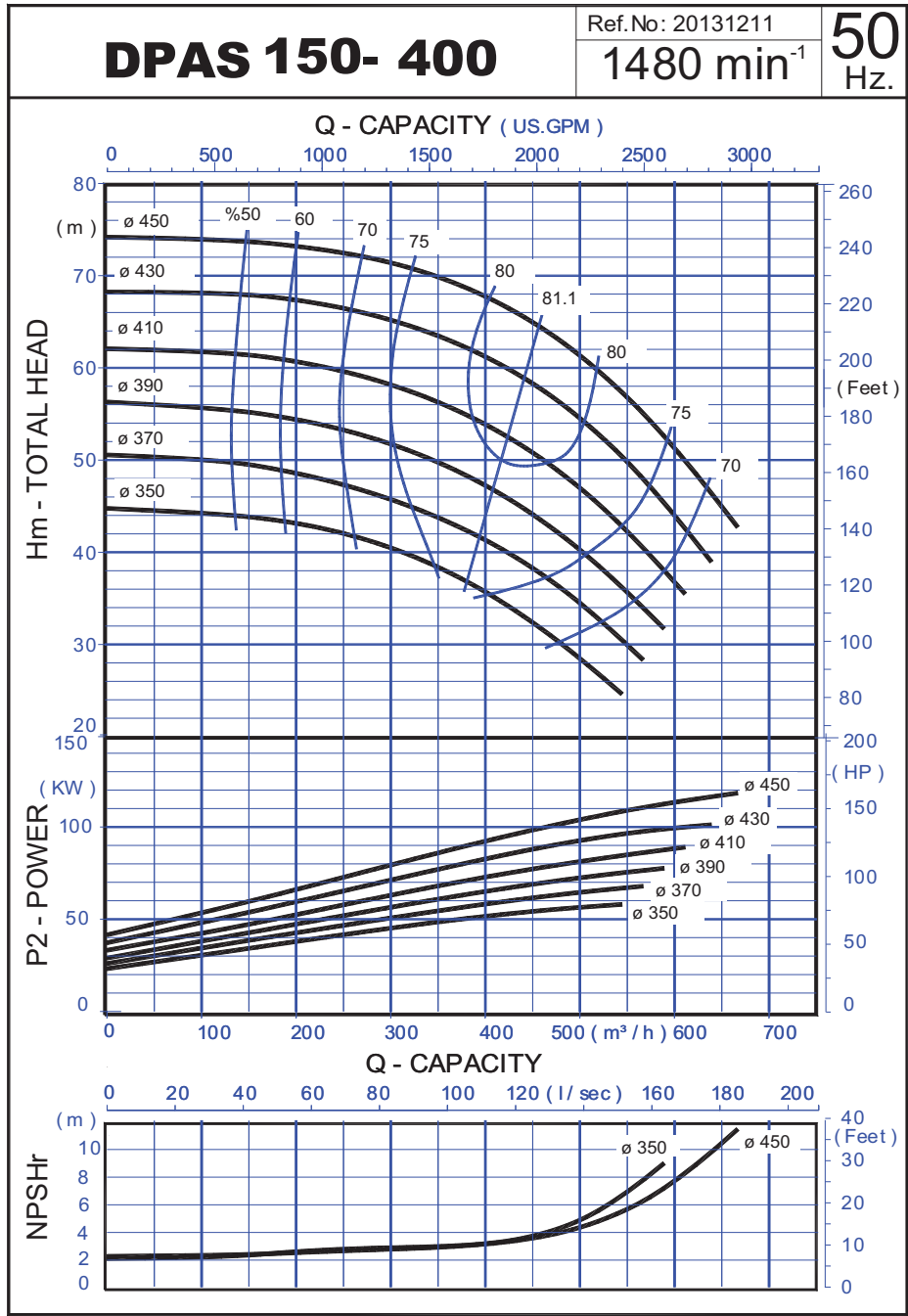
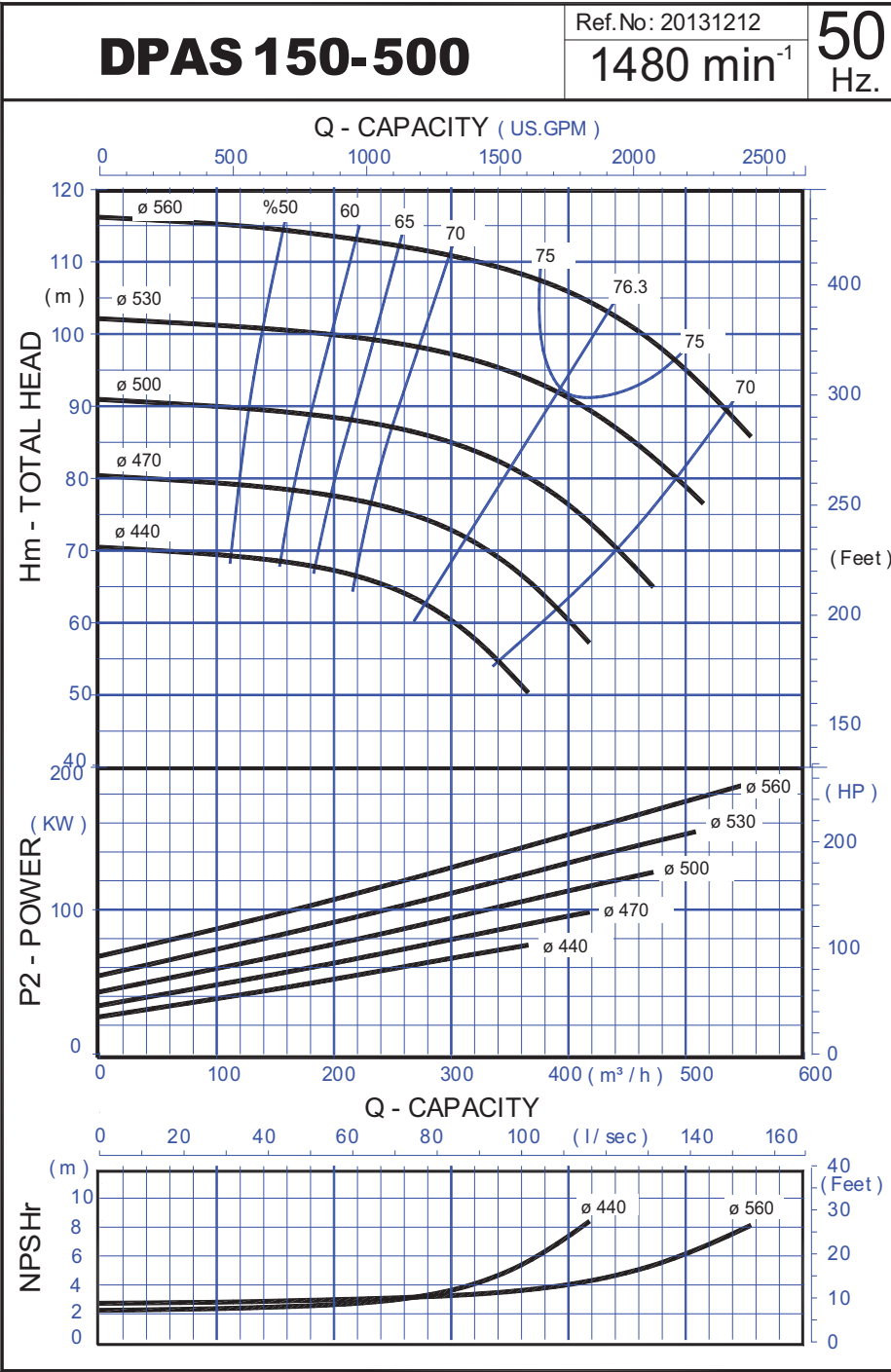


Table 18: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-400 | 450                    | 132     | 515            | 41508127D450 |
| 150-400 | 430                    | 110     | 515            | 41508127D430 |
| 150-400 | 410                    | 90      | 515            | 41508127D410 |
| 150-400 | 390                    | 75      | 515            | 41508127D390 |
| 150-400 | 370                    | 75      | 515            | 41508127D370 |
| 150-400 | 350                    | 75      | 515            | 41508127D350 |

2.17 DPAS 150-500 4P



Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 19: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 150-500 | 580                    | 185     | 590            | 4150A127D580 |
| 150-500 | 530                    | 160     | 590            | 4150A127D530 |
| 150-500 | 500                    | 132     | 590            | 4150A127D500 |
| 150-500 | 470                    | 110     | 590            | 4150A127D470 |
| 150-500 | 440                    | 90      | 590            | 4150A127D470 |

2.18 DPAS 200-315 4P

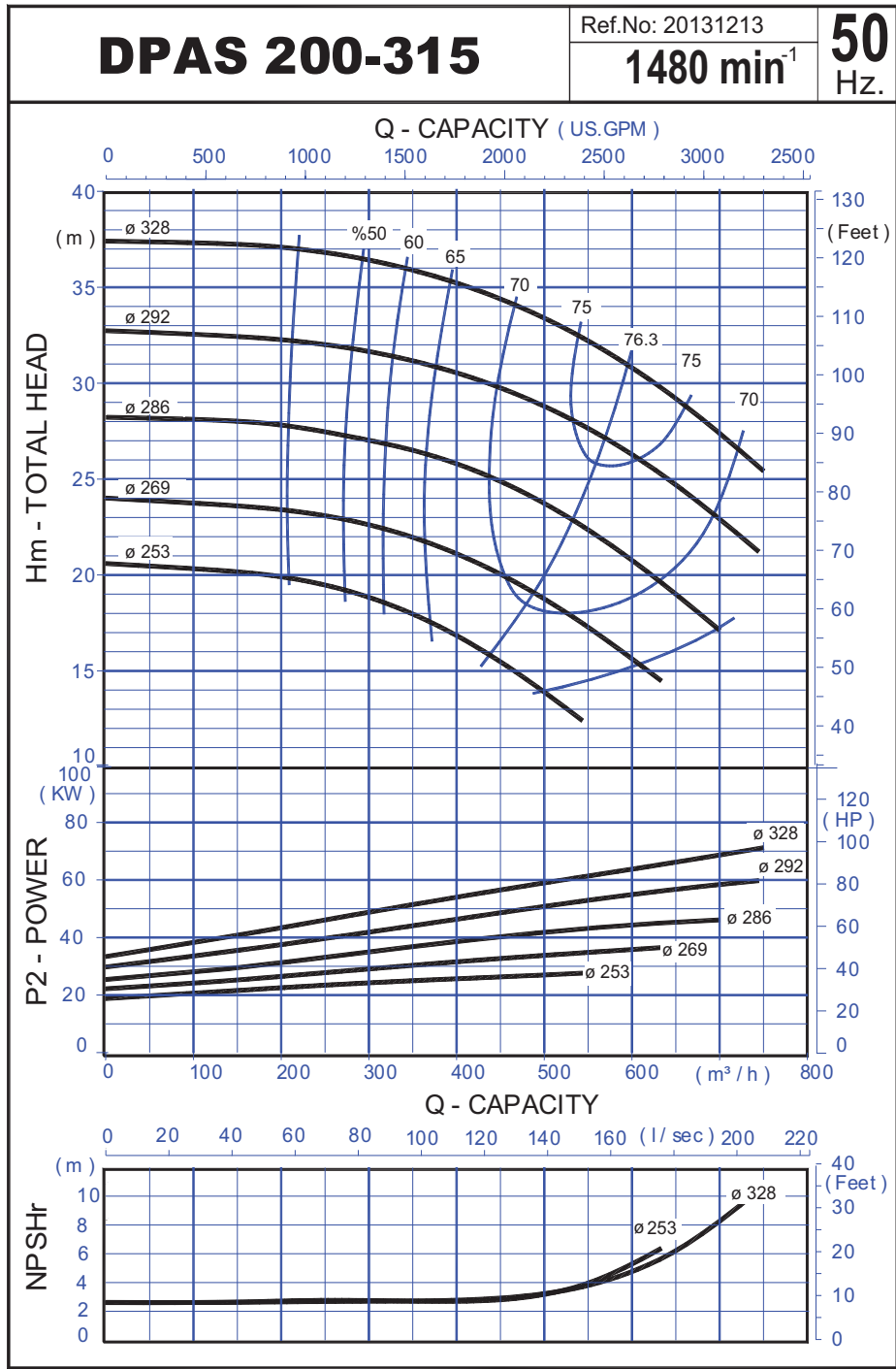


Table 20: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 200-315 | 328                    | 75      | 565            | 42006127D328 |
| 200-315 | 292                    | 55      | 565            | 42006127D292 |
| 200-315 | 286                    | 37      | 565            | 42006127D286 |
| 200-315 | 269                    | 30      | 565            | 42006127D269 |
| 200-315 | 253                    | 22      | 565            | 42006127D253 |

2.19 DPAS 200-400 4P

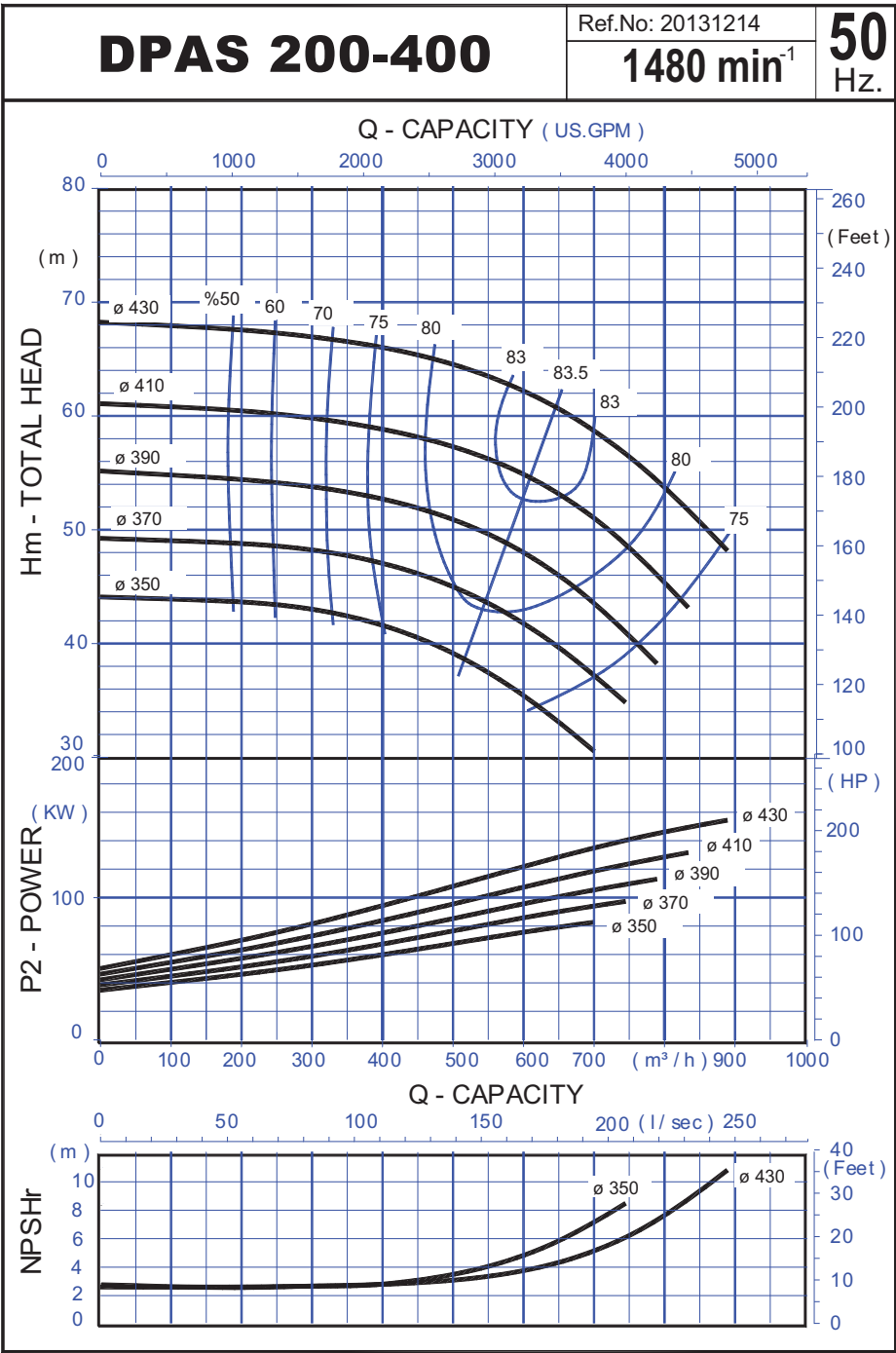


Table 21: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 200-400 | 430                    | 160     | 645            | 42008127D430 |
| 200-400 | 410                    | 132     | 645            | 42008127D410 |
| 200-400 | 390                    | 110     | 645            | 42008127D390 |
| 200-400 | 370                    | 90      | 645            | 42008127D370 |
| 200-400 | 350                    | 90      | 645            | 42008127D350 |

2.20 DPAS 200-500 4P

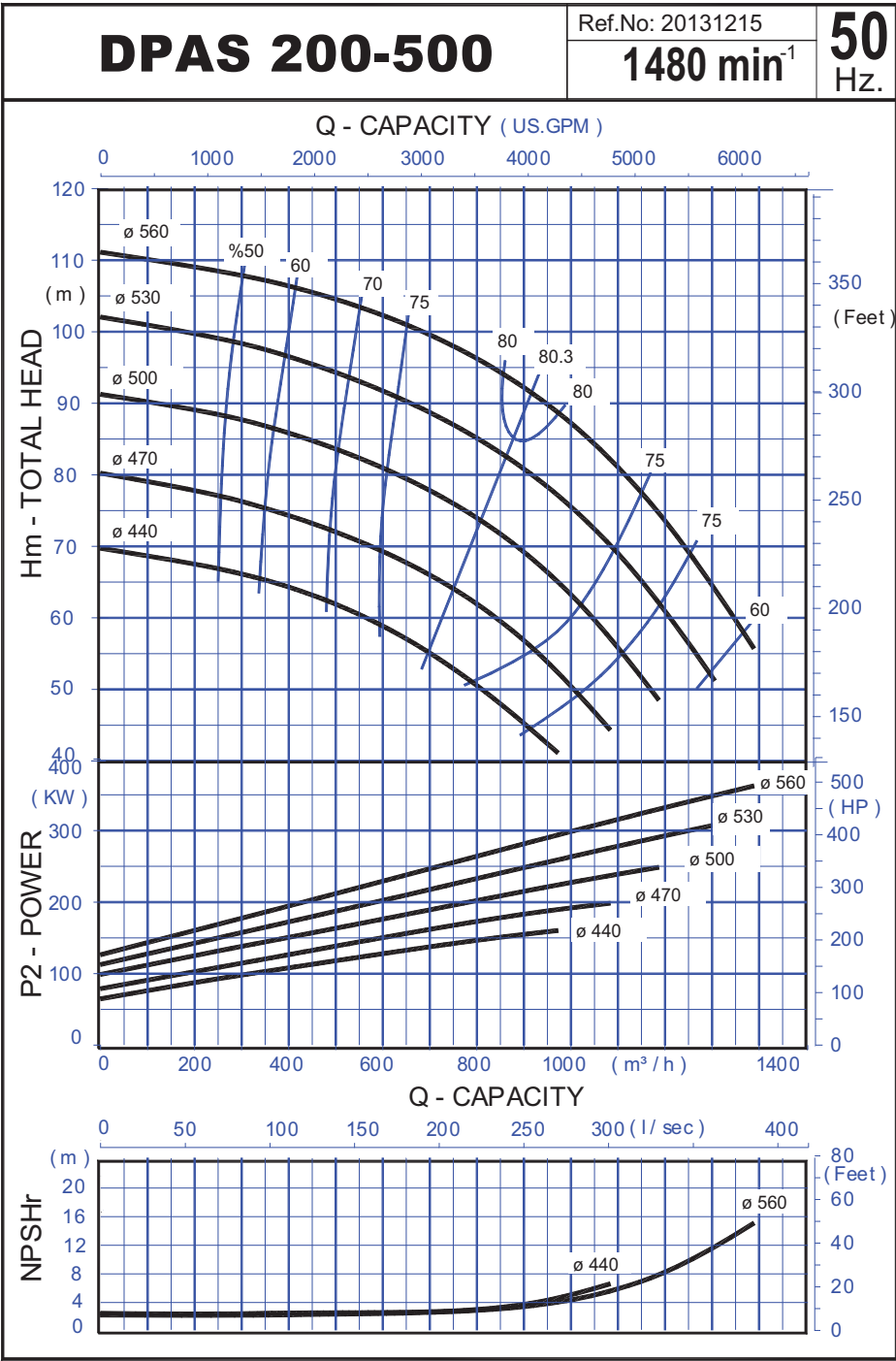
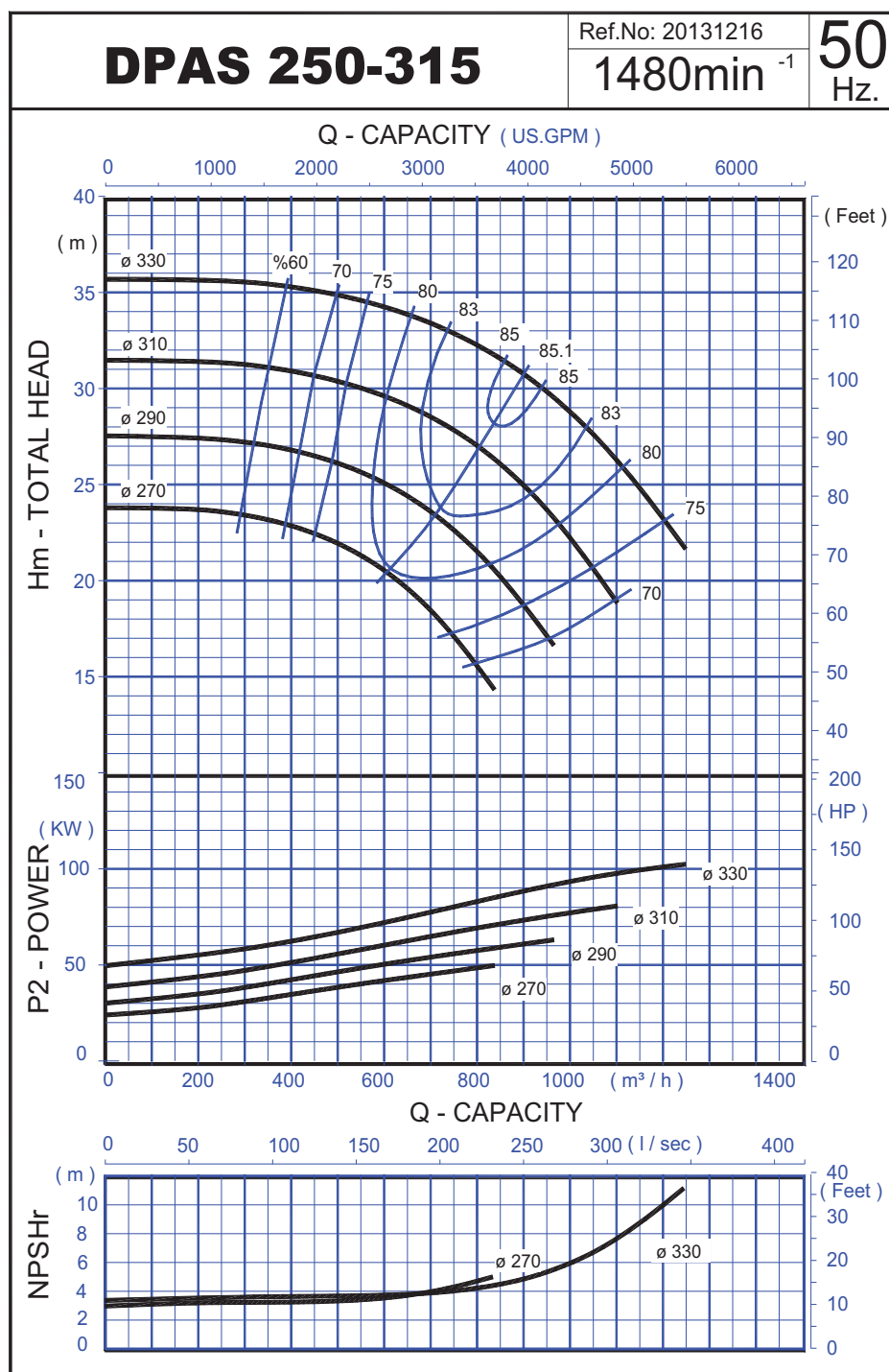


Table 22: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 200-500 | 560                    | 355     | 760            | 4200A127D560 |
| 200-500 | 530                    | 315     | 760            | 4200A127D530 |
| 200-500 | 500                    | 250     | 760            | 4200A127D500 |
| 200-500 | 470                    | 200     | 760            | 4200A127D470 |
| 200-500 | 440                    | 185     | 760            | 4200A127D440 |

## 2.21 DPAS 250-315 4P

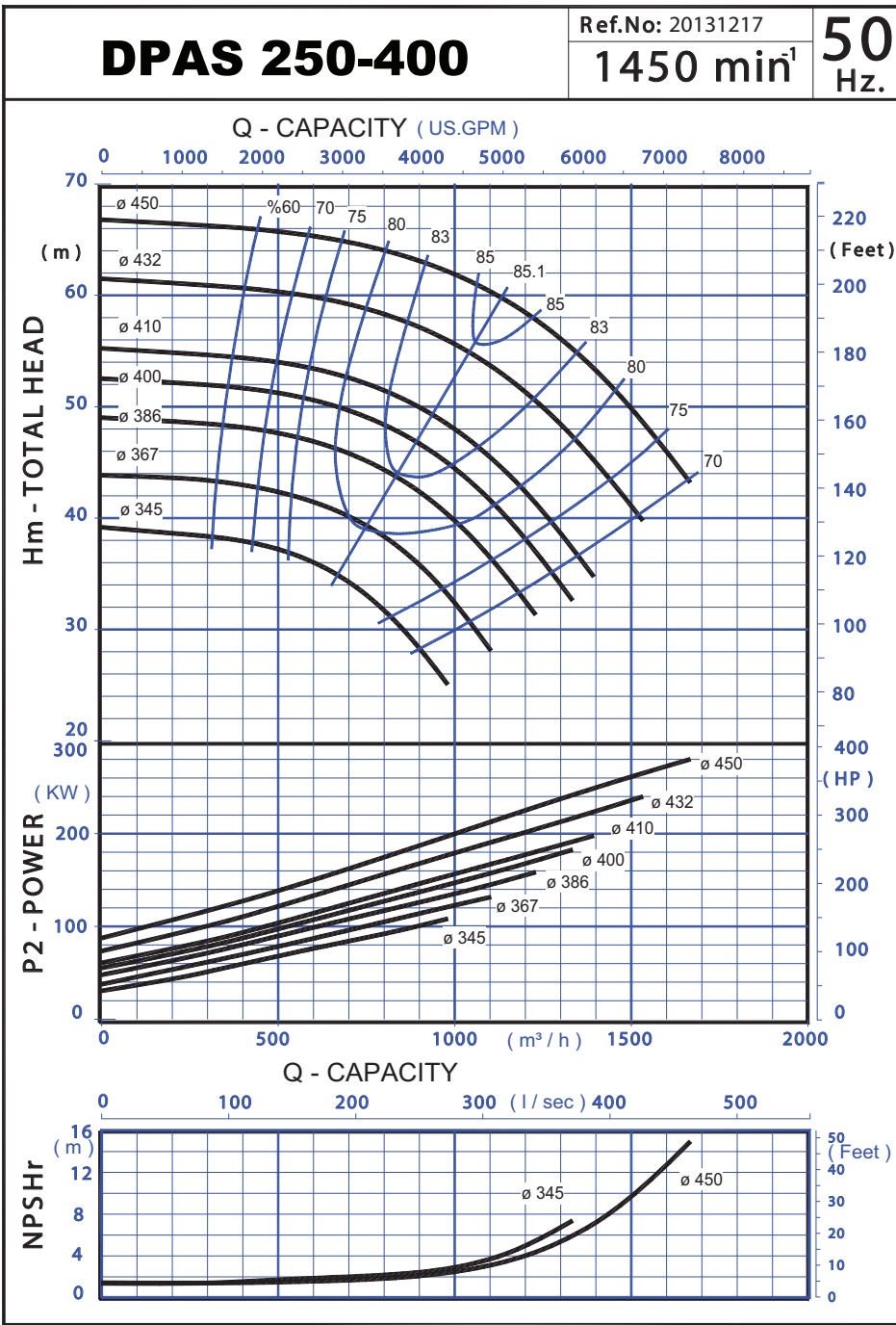


Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 23: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 250-315 | 330                    | 110     | 750            | 42506127D330 |
| 250-315 | 310                    | 90      | 750            | 42506127D310 |
| 250-315 | 290                    | 75      | 750            | 42506127D290 |
| 250-315 | 270                    | 55      | 750            | 42506127D270 |

2.22 DPAS 250-400 4P

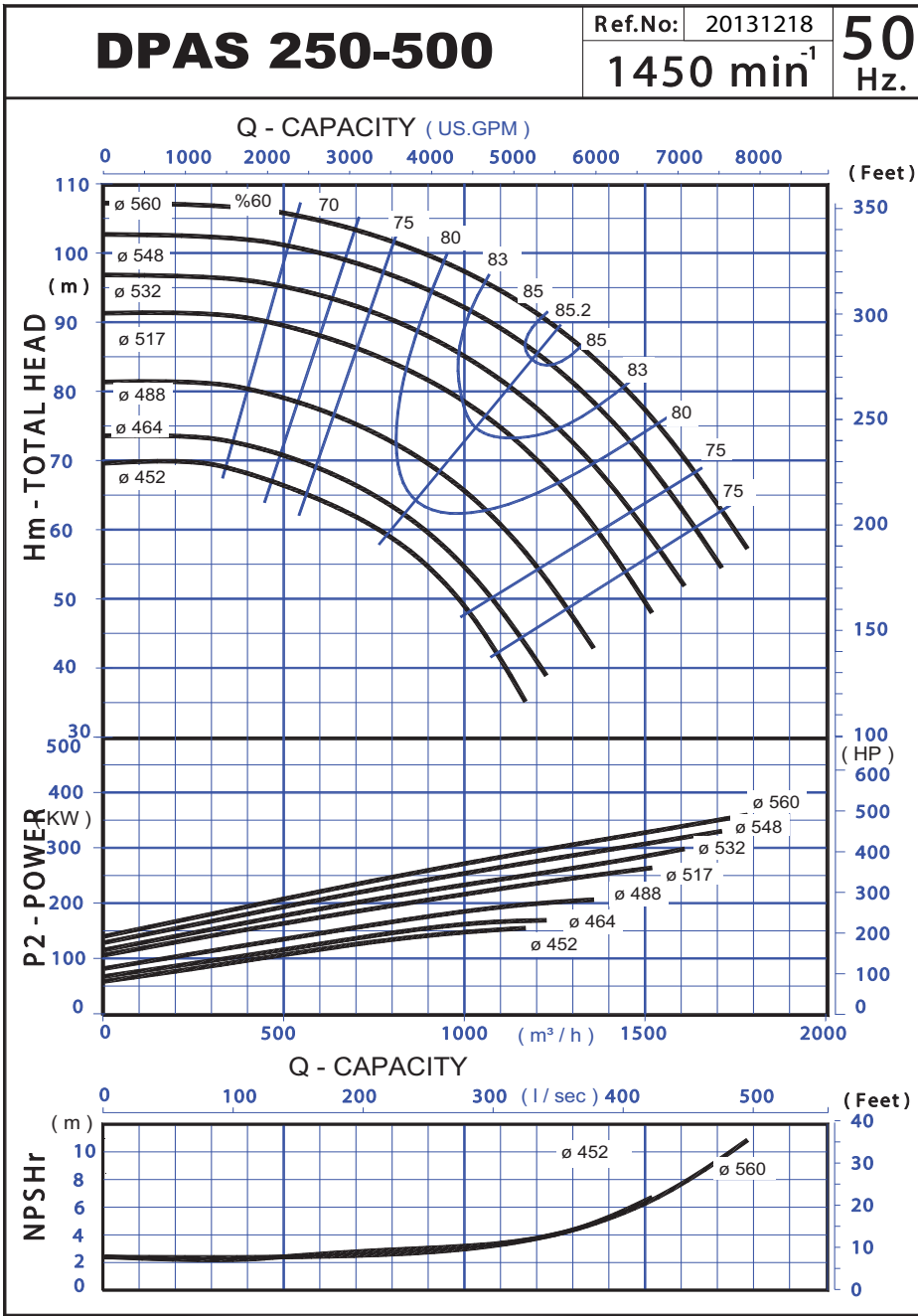


Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 24: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 250-400 | 432                    | 250     | 700            | 42508127D432 |
| 250-400 | 410                    | 200     | 700            | 42508127D410 |
| 250-400 | 400                    | 185     | 700            | 42508127D400 |
| 250-400 | 386                    | 160     | 700            | 42508127D386 |
| 250-400 | 367                    | 132     | 700            | 42508127D367 |
| 250-400 | 345                    | 110     | 700            | 42508127D345 |

2.23 DPAS 250-500 4P

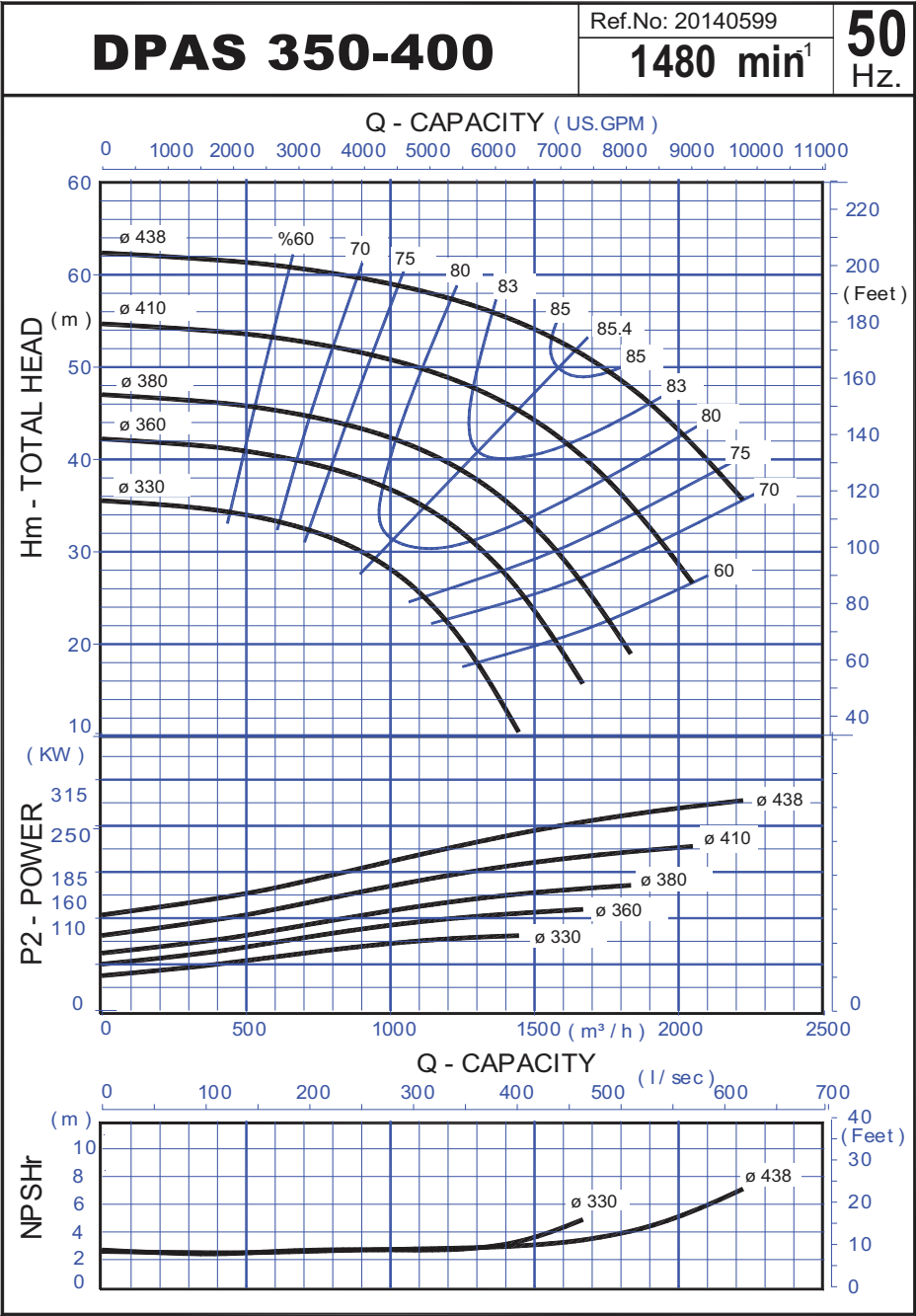


Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 25: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 250-500 | 560                    | 450     | 850            | 4250A127D560 |
| 250-500 | 548                    | 400     | 850            | 4250A127D548 |
| 250-500 | 532                    | 355     | 850            | 4250A127D532 |
| 250-500 | 517                    | 250     | 850            | 4250A127D517 |
| 250-500 | 488                    | 200     | 850            | 4250A127D488 |
| 250-500 | 464                    | 185     | 850            | 4250A127D464 |
| 250-500 | 452                    | 160     | 850            | 4250A127D452 |

2.24 DPAS 350-400 4P



Curves are valid for 20°C clean water. Tolerance ISO 9906

Table 26: General data

| Model   | Impeller diameter [mm] | P2 [kW] | Pump mass [kg] | Part number  |
|---------|------------------------|---------|----------------|--------------|
| 350-400 | 438                    | 315     | on request     | 43508127Dd38 |
| 350-400 | 410                    | 250     | on request     | 43508127Dd10 |
| 350-400 | 380                    | 185     | on request     | 43508127D380 |
| 350-400 | 360                    | 160     | on request     | 43508127D360 |
| 350-400 | 330                    | 110     | on request     | 43508127D330 |

## 3 Dimensions

### 3.1 DPAS dimensions

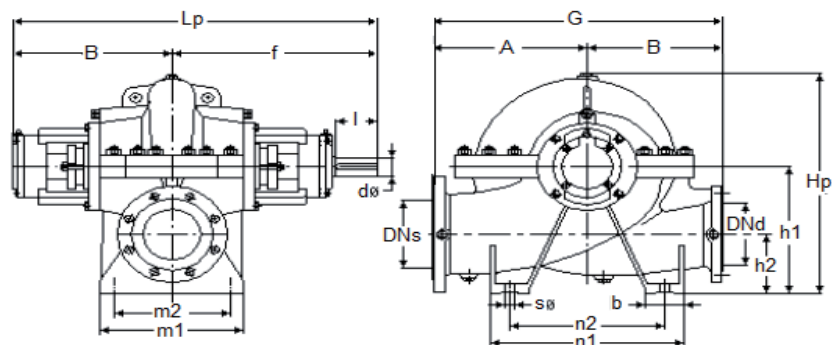


Figure 1: Drawing DPAS

Table 27: Dimensions DPAS [mm]

| Model   | G | DN <sub>s</sub> | DN <sub>d</sub> | Lp   | e   | f   | h1  | h2  | Hp   | A   | B   | G    | b   | m1  | m2  | n1  | n2  | s  | l   | d  |
|---------|---|-----------------|-----------------|------|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|----|-----|----|
| 65-250  | A | DN100-PN16      | DN65-PN16       | 455  | 195 | 260 | 250 | 115 | 425  | 285 | 225 | 510  | 70  | 240 | 190 | 350 | 275 | 18 | 60  | 28 |
| 80-250  | B | DN125-PN16      | DN80-PN16       | 507  | 212 | 295 | 280 | 140 | 485  | 300 | 275 | 575  | 80  | 234 | 190 | 400 | 330 | 18 | 80  | 32 |
| 80-360  | B | DN125-PN16      | DN80-PN16       | 507  | 212 | 295 | 315 | 135 | 550  | 325 | 275 | 600  | 80  | 234 | 190 | 400 | 330 | 18 | 80  | 32 |
| 100-250 | B | DN150-PN16      | DN100-PN16      | 545  | 230 | 315 | 315 | 155 | 550  | 325 | 275 | 600  | 80  | 270 | 225 | 400 | 330 | 18 | 80  | 32 |
| 100-315 | C | DN150-PN16      | DN100-PN16      | 615  | 260 | 355 | 355 | 145 | 585  | 360 | 320 | 680  | 90  | 290 | 230 | 435 | 350 | 23 | 110 | 40 |
| 125-400 | D | DN150-PN16      | DN125-PN16      | 696  | 300 | 396 | 375 | 175 | 700  | 450 | 400 | 850  | 100 | 370 | 300 | 500 | 400 | 23 | 110 | 50 |
| 150-250 | C | DN200-PN16      | DN150-PN16      | 665  | 285 | 380 | 375 | 175 | 635  | 400 | 325 | 725  | 100 | 340 | 270 | 500 | 400 | 23 | 110 | 40 |
| 150-315 | D | DN200-PN16      | DN150-PN16      | 696  | 300 | 396 | 375 | 175 | 645  | 400 | 350 | 750  | 100 | 370 | 300 | 500 | 400 | 23 | 110 | 50 |
| 150-400 | D | DN200-PN16      | DN150-PN16      | 696  | 300 | 396 | 400 | 200 | 730  | 475 | 400 | 875  | 100 | 370 | 300 | 500 | 400 | 23 | 110 | 50 |
| 150-500 | D | DN200-PN16      | DN150-PN16      | 696  | 300 | 396 | 450 | 250 | 870  | 550 | 500 | 1050 | 100 | 370 | 300 | 650 | 550 | 23 | 110 | 50 |
| 200-315 | D | DN250-PN10      | DN200-PN16      | 725  | 315 | 410 | 430 | 205 | 730  | 450 | 375 | 825  | 100 | 430 | 360 | 500 | 400 | 23 | 110 | 50 |
| 200-400 | D | DN250-PN10      | DN200-PN16      | 725  | 315 | 410 | 430 | 205 | 790  | 525 | 425 | 950  | 100 | 430 | 360 | 600 | 500 | 23 | 110 | 50 |
| 200-500 | E | DN250-PN10      | DN200-PN16      | 822  | 337 | 485 | 475 | 220 | 870  | 550 | 500 | 1050 | 100 | 460 | 390 | 650 | 550 | 28 | 140 | 60 |
| 250-315 | E | DN300-PN10      | DN250-PN16      | 842  | 347 | 495 | 500 | 225 | 860  | 525 | 450 | 975  | 100 | 480 | 410 | 650 | 550 | 28 | 140 | 60 |
| 250-400 | E | DN300-PN10      | DN250-PN16      | 822  | 337 | 485 | 500 | 225 | 865  | 550 | 450 | 1000 | 100 | 460 | 390 | 650 | 550 | 28 | 140 | 60 |
| 250-500 | E | DN300-PN10      | DN250-PN16      | 842  | 347 | 495 | 525 | 240 | 945  | 600 | 500 | 1100 | 100 | 480 | 410 | 650 | 550 | 28 | 140 | 60 |
| 350-400 | F | DN400-PN10      | DN350-PN16      | 1000 | 435 | 565 | 610 | 295 | 1010 | 600 | 500 | 1100 | 150 | 600 | 500 | 750 | 600 | 28 | 140 | 75 |









**dp pumps**

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