



# **AVS**

## **SUBMERSIBLE AXIAL FLOW PUMPS**

## APPLICATIONS

- **Flood control**
- **Irrigation**
- **Land drainage**
- **Pollution control**
- **Industry**
- **Water refineries**
- **Water parks**
- **Design**

## OPERATING DATA

- Capacity: .....up to 25.000 m<sup>3</sup>/h
- Head: .....up to 11 m
- Max. water temperature: .....40°C
- Max. submergence depth: .....10 m
- PH: .....5 – 9

## MATERIALS OF CONSTRUCTION

- Motor housing: .....Cast Iron
- Bowl: .....Cast Iron
- Suction bellmouth: .....Cast Iron
- Shaft: .....SS AISI 420
- Propeller hub:.....Cast iron
- Propeller blades:.....Stainless steel or Bronze
- Upper mechanical seal:.....WuC/WuC
- Lower mechanical seal:.....Sic/Sic
- Nuts & Bolts:.....Stainless steel
- O-rings: .....NBR

\* Other materials are also available  
on request.

## FEATURES

Submersible propeller axial flow pumps, are a compact unit comprising of submersible motor and pump, capable to pump large capacities at low manometric heads. AVS pumps are of heavy type construction and their design allows the construction of smaller pumping stations, that are more compact, requiring less civil engineering and construction works.

### • Bowl assembly

It is consisting of bowl with diffuser and suction beelmouth. The propeller type impeller has adjustable blades and is securely fastened on the motor shaft. Wear Rings available upon request.

### • Electric Motor

The submersible motor is 3 phases, 400 Volts, 50 Hz squirrel cage induction type, of IP 68 protection, Class F insulation and it is cooled by the pumped water.

The terminal box is water-proofed and the cable inlets are featured with tightening resistance, wrapping resistance and double sealing.

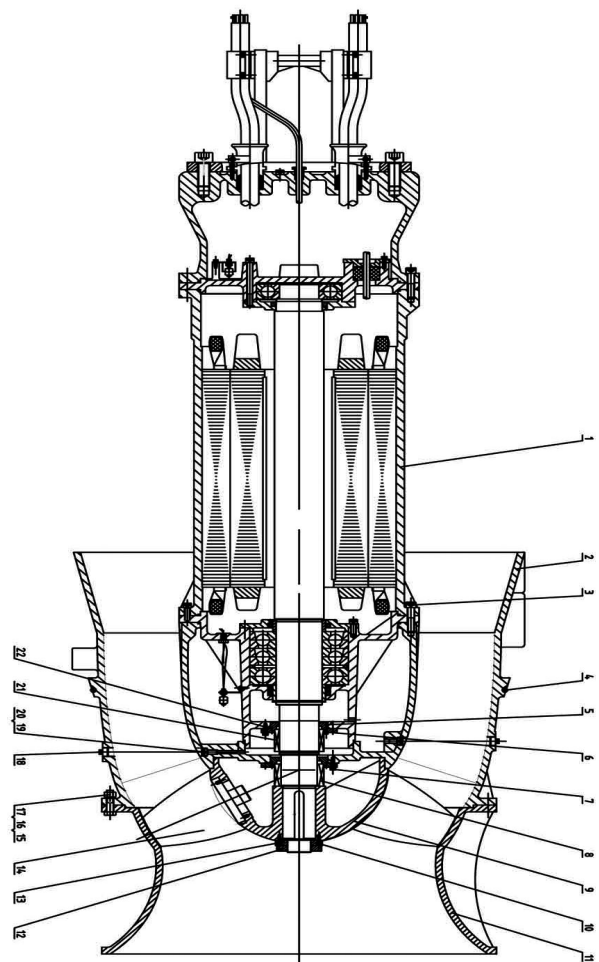
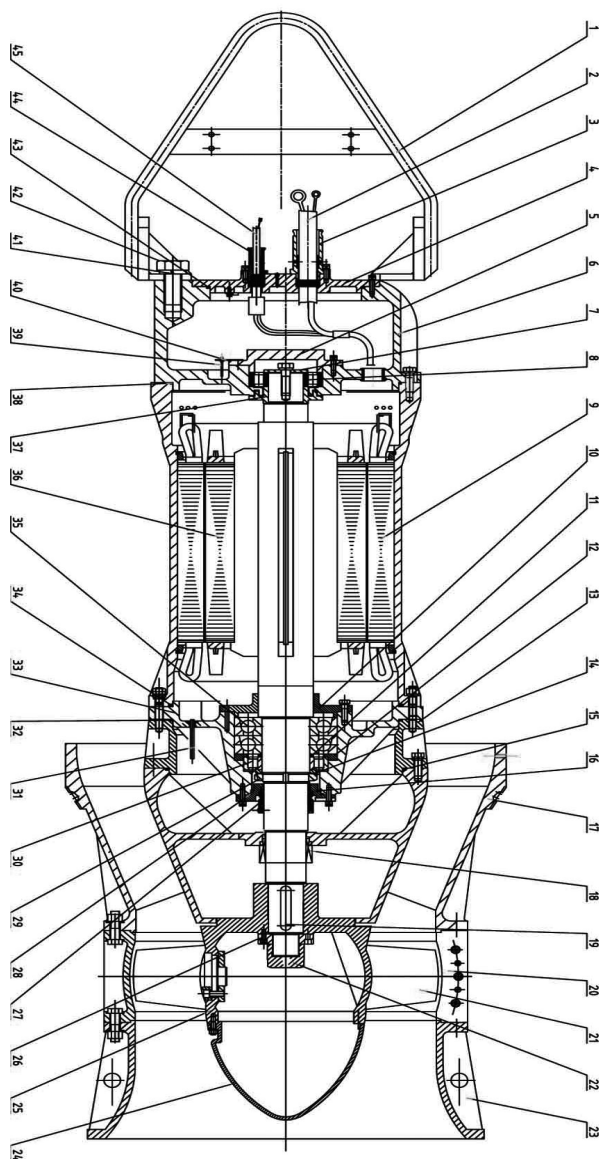
The shaft is mounted on heavy duty ball and roller bearings lubricated for life.

For the motor sealing, two mechanical seals in tandem arrangement are used. they are operate independently of each other in an oil bath, in a separate oil chamber.

The following motor protections / monitoring controls are available:

- Thermal sensors embedded in the windings for the motor protection against overheating
- Moisture sensor in the oil chamber
- Moisture sensor in the terminal box
- Bearings temperature sensors

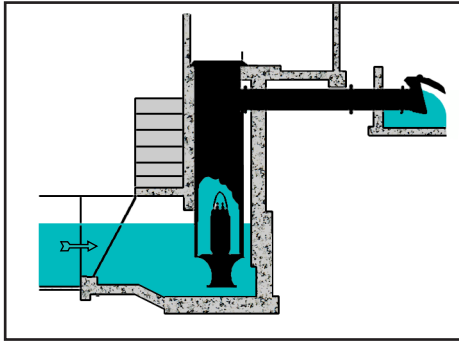
## CROSS SECTION DRAWING



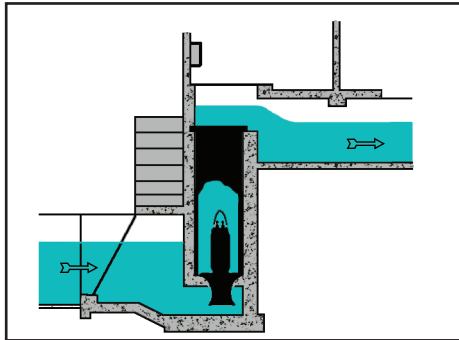
| No | Item                 | No | Item                     | No | Item            |
|----|----------------------|----|--------------------------|----|-----------------|
| 1  | Handle               | 17 | Diffuser                 | 33 | Bearing lid     |
| 2  | Cable(2)             | 18 | Mechanical seal          | 34 | O - ring        |
| 3  | Cable gland (2)      | 19 | Key                      | 35 | Bearing         |
| 4  | Up cover             | 20 | Volute                   | 36 | Rotor and shaft |
| 5  | Upper bearing cover  | 21 | Impeller                 | 37 | Sealing cover   |
| 6  | Junction chamber     | 22 | Lock nut for impeller    | 38 | O - ring        |
| 7  | Oil resistance cover | 23 | Suction bell             | 39 | Leakage sensor  |
| 8  | Bearing              | 24 | Hub cover                | 40 | Sensor hold     |
| 9  | Stator               | 25 | Hub                      | 41 | Gasket          |
| 10 | Lower bearing cover  | 26 | Bolt                     | 42 | Bolt            |
| 11 | Bearing washer       | 27 | Mechanical seal          | 43 | O - ring        |
| 12 | Circlip              | 28 | O - ring                 | 44 | Cable gland (2) |
| 13 | Oil lid              | 29 | Position nut for bearing | 45 | Cable (1)       |
| 14 | Bearing washer       | 30 | Bearing                  |    |                 |
| 15 | O - ring             | 31 | Leakage sensor           |    |                 |
| 16 | Mechanical seal hold | 32 | O - ring                 |    |                 |

| No | Item                 | No | Item            |
|----|----------------------|----|-----------------|
| 1  | Motor casing         | 17 | Nut             |
| 2  | Diffuser             | 18 | Pipe blocking   |
| 3  | Screw                | 19 | Screw           |
| 4  | O - ring             | 20 | O - ring        |
| 5  | Mechanical seal seat | 21 | Mechanical seal |
| 6  | Screw                | 22 | O - ring        |
| 7  | Screw                |    |                 |
| 8  | Mechanical seal      |    |                 |
| 9  | Impeller hub         |    |                 |
| 10 | Screw                |    |                 |
| 11 | Suction bell         |    |                 |
| 12 | Shaft end nut        |    |                 |
| 13 | Shaft end nut        |    |                 |
| 14 | Impeller vanes       |    |                 |
| 15 | Bolts                |    |                 |
| 16 | Washer               |    |                 |

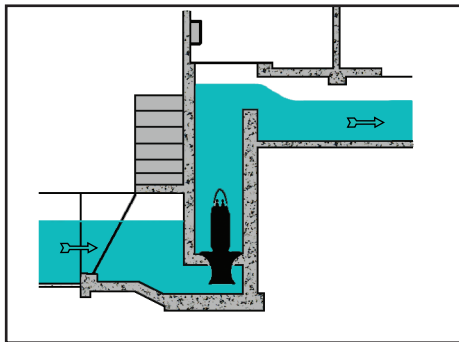
## INSTALLATION TYPES



- Steel tubular column with discharge pipe and non - return flap valve.
- Concrete suction chamber with protective screen.

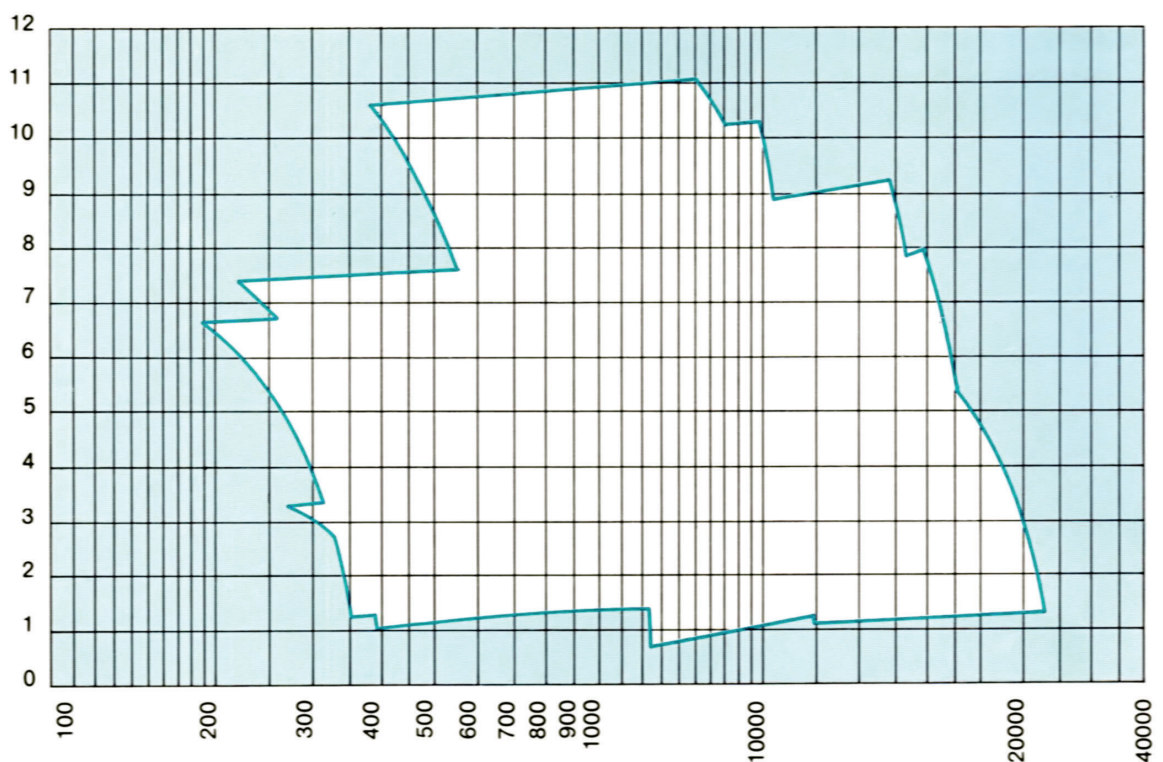


- Overflow steel tubular column and concrete suction chamber with protective screen.



- Overflow concrete column and concrete suction chamber with protective screen.

## PERFORMANCE CHARTS

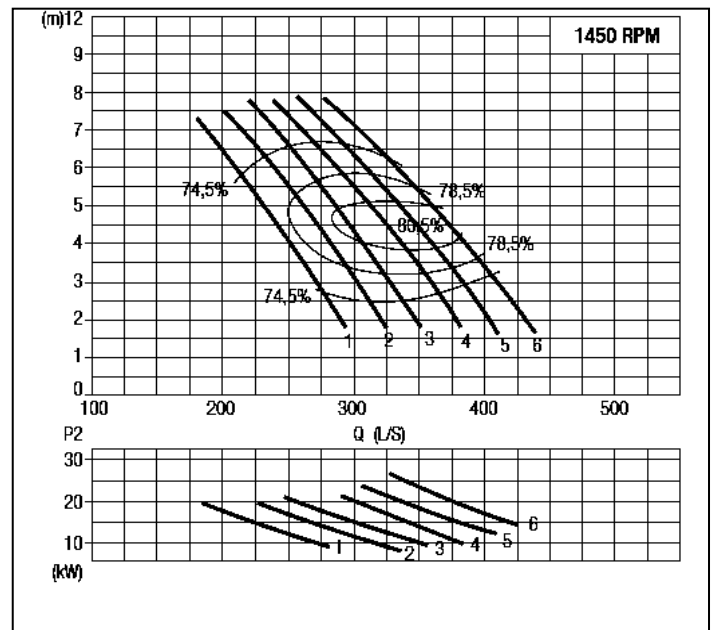
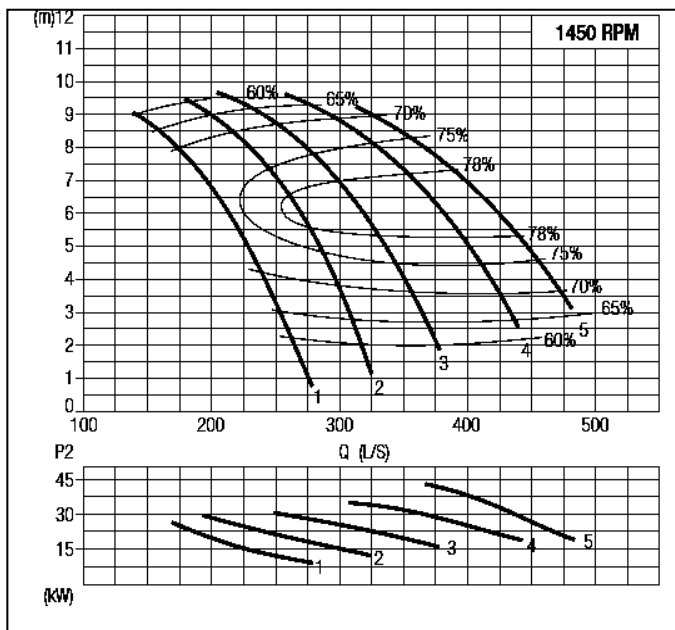


## AVS 300-350-I Selection Chart 1450 RPM

| Impeller<br>Nr | Flow |     | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |    |
|----------------|------|-----|------|-------|----------|----------------|----------------|-----------------|----|
|                | m3/h | l/s | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |    |
| 1              | 673  | 187 | 7.45 | 1450  | 69.5     | 19.7           | 22             | 300             |    |
|                | 828  | 230 | 4.77 |       | 72.4     | 14.9           |                |                 |    |
|                | 900  | 250 | 3.42 |       | 68       | 12.3           |                |                 |    |
| 2              | 763  | 212 | 8.67 |       | 71       | 25.4           | 30             |                 |    |
|                | 957  | 266 | 6.21 |       | 79       | 20.5           |                |                 |    |
|                | 1090 | 303 | 3.59 |       | 74       | 14.4           |                |                 |    |
| 3              | 972  | 270 | 8.3  |       | 75.7     | 29.0           |                |                 | 40 |
|                | 1115 | 310 | 6.36 |       | 78.5     | 24.6           |                |                 |    |
|                | 1250 | 347 | 4.52 |       | 75       | 20.5           |                |                 |    |
| 4              | 1170 | 325 | 7.8  |       | 75.5     | 32.9           | 40             |                 |    |
|                | 1334 | 365 | 6.3  |       | 79       | 28.6           |                |                 |    |
|                | 1440 | 400 | 4.71 |       | 75       | 24.6           |                |                 |    |
| 5              | 1314 | 365 | 8.1  |       | 74.7     | 38.8           |                |                 | 40 |
|                | 1430 | 397 | 6.94 |       | 75.5     | 35.8           |                |                 |    |
|                | 1540 | 428 | 5.8  |       | 75.8     | 32.1           |                |                 |    |

## AVS 300-350-II Selection Chart 1450 RPM

| Impeller<br>Nr | Flow |     | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|-----|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 810  | 225 | 5.4  | 1450  | 76.5     | 15.6           | 22             | 300             |
|                | 900  | 250 | 4.03 |       | 78.4     | 12.6           |                |                 |
|                | 972  | 270 | 3.2  |       | 76.5     | 11.1           |                |                 |
| 2              | 878  | 244 | 5.8  |       | 76.5     | 18.1           |                |                 |
|                | 1008 | 280 | 4.1  |       | 79.6     | 14.1           |                |                 |
|                | 1080 | 300 | 3.2  |       | 76.5     | 12.3           |                |                 |
| 3              | 954  | 265 | 5.83 |       | 77.5     | 19.6           |                |                 |
|                | 1080 | 300 | 4.2  |       | 80.2     | 15.4           |                |                 |
|                | 1188 | 330 | 2.9  |       | 77.5     | 12.1           |                |                 |
| 4              | 1033 | 287 | 6.0  |       | 77.5     | 21.8           |                |                 |
|                | 1188 | 330 | 4.21 |       | 80.5     | 16.9           |                |                 |
|                | 1285 | 357 | 2.89 |       | 77.5     | 13.1           |                |                 |
| 5              | 1091 | 303 | 6.0  |       | 76.7     | 23.3           | 30             |                 |
|                | 1260 | 350 | 4.43 |       | 81       | 18.8           |                |                 |
|                | 1368 | 380 | 3.2  |       | 76.5     | 15.6           |                |                 |
| 6              | 1170 | 325 | 6.4  |       | 75.5     | 27.0           |                |                 |
|                | 1350 | 375 | 4.45 |       | 80.7     | 20.3           |                |                 |
|                | 1440 | 400 | 3.4  |       | 76.5     | 17.4           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 300 mm | ISO 9906 Grade 2 |

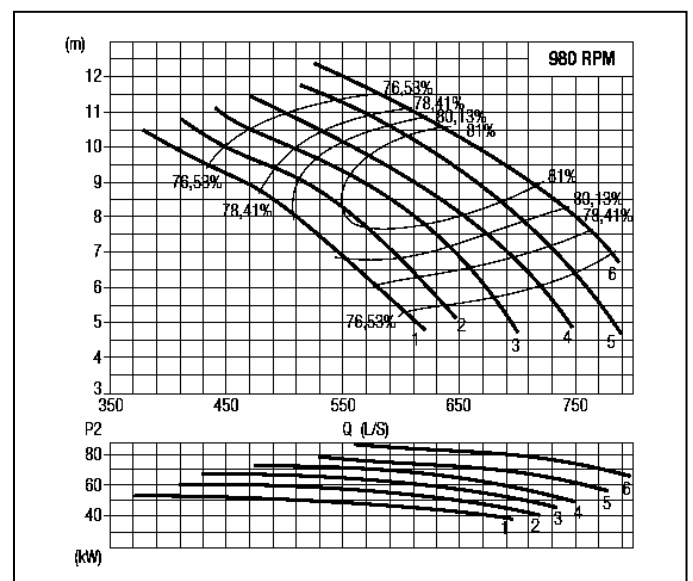
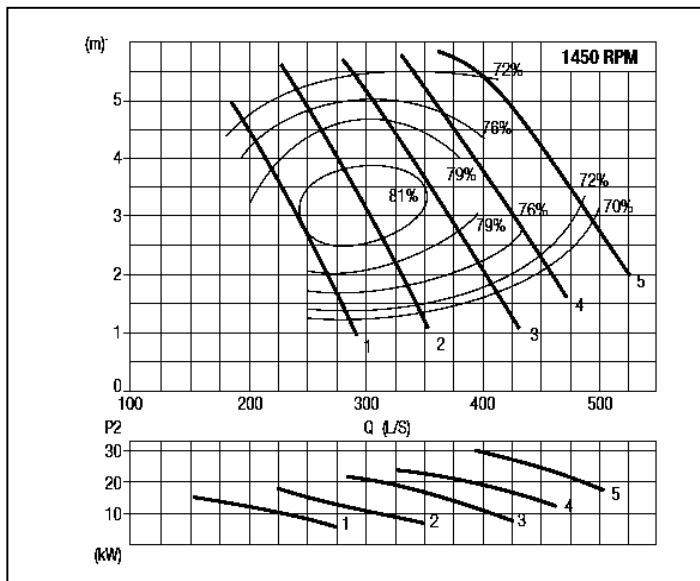
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 300 mm | ISO 9906 Grade 2 |

## AVS 300-350-III Selection Chart 1450 RPM

| Impeller<br>Nr | Flow |     | Head<br>m | Speed<br>Rpm | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|-----|-----------|--------------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s |           |              |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 791  | 220 | 3.78      | 1450         | 79.1     | 10.3           | 18.5           | 300             |
|                | 896  | 249 | 2.72      |              | 81.1     | 8.2            |                |                 |
|                | 1005 | 279 | 1.39      |              | 70.2     | 5.4            |                |                 |
| 2              | 923  | 256 | 4.66      |              | 78       | 15.0           |                |                 |
|                | 1113 | 309 | 2.84      |              | 81.7     | 10.5           |                |                 |
|                | 1262 | 351 | 1.18      |              | 65.3     | 6.2            |                |                 |
| 3              | 1111 | 309 | 5.02      |              | 75.6     | 20.1           | 22             |                 |
|                | 1304 | 362 | 3.35      |              | 80.1     | 14.9           |                |                 |
|                | 1534 | 426 | 1.22      |              | 64.6     | 7.9            |                |                 |
| 4              | 1163 | 323 | 5.89      |              | 70       | 26.7           | 37             |                 |
|                | 1453 | 404 | 3.8       |              | 78.6     | 19.1           |                |                 |
|                | 1649 | 458 | 2.05      |              | 70.3     | 13.1           |                |                 |
| 5              | 1422 | 295 | 5.47      |              | 69.4     | 30.5           |                |                 |
|                | 1651 | 459 | 3.91      |              | 72.9     | 24.1           |                |                 |
|                | 1782 | 495 | 2.84      |              | 70.9     | 19.5           |                |                 |

## AVS 450-500 Selection Chart 980 RPM

| Impeller<br>Nr | Flow |     | Head  | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |    |    |
|----------------|------|-----|-------|-------|----------|----------------|----------------|-----------------|----|----|
|                | m3/h | l/s | m     | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |    |    |
| 1              | 1522 | 423 | 9.78  | 980   | 75.6     | 53.7           | 75             | 450             |    |    |
|                | 1843 | 512 | 8.0   |       | 80.2     | 50.1           |                |                 |    |    |
|                | 1981 | 550 | 6.85  |       | 78.3     | 47.2           |                |                 |    |    |
| 2              | 1600 | 444 | 10.12 |       | 75.6     | 58.4           |                |                 | 90 |    |
|                | 1987 | 552 | 8.25  |       | 81       | 55.1           |                |                 |    |    |
|                | 2183 | 606 | 6.65  |       | 78.3     | 50.5           |                |                 |    |    |
| 3              | 1698 | 472 | 10.48 |       | 75.6     | 64.1           |                |                 |    | 90 |
|                | 2131 | 592 | 8.5   |       | 81       | 60.9           |                |                 |    |    |
|                | 2368 | 658 | 6.61  |       | 78.3     | 54.5           |                |                 |    |    |
| 4              | 1801 | 500 | 10.82 |       | 75.6     | 70.2           | 90             |                 |    |    |
|                | 2300 | 639 | 8.54  |       | 81       | 66.1           |                |                 |    |    |
|                | 2536 | 704 | 6.67  |       | 78.3     | 58.9           |                |                 |    |    |
| 5              | 2212 | 614 | 10.02 |       | 81       | 74.6           |                |                 | 90 |    |
|                | 2430 | 675 | 8.7   |       | 81.5     | 70.7           |                |                 |    |    |
|                | 2683 | 745 | 6.8   |       | 78.3     | 63.5           |                |                 |    |    |
| 6              | 2170 | 603 | 11.06 |       | 75.6     | 86.5           |                |                 |    | 90 |
|                | 2556 | 710 | 9.0   |       | 81.5     | 76.9           |                |                 |    |    |
|                | 2826 | 785 | 7.04  |       | 78.3     | 69.2           |                |                 |    |    |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 300 mm | ISO 9906 Grade 2 |

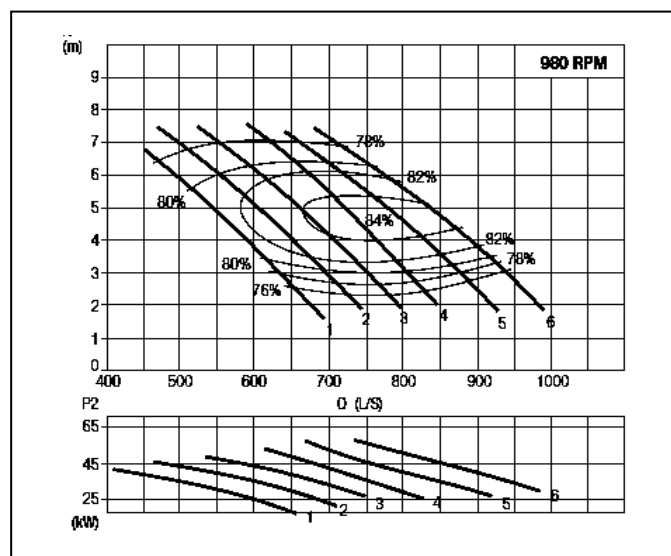
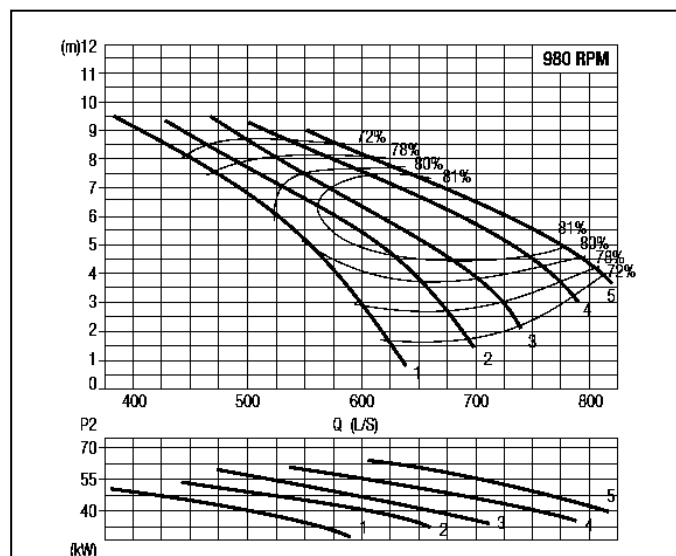
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 450 mm | ISO 9906 Grade 2 |

AVS 450-500-I Selection Chart 980 RPM

| Impeller Nr | Flow              |     | Head<br>m | Speed<br>rpm | Eff % | Power (kW)  |             | Impeller Dia |
|-------------|-------------------|-----|-----------|--------------|-------|-------------|-------------|--------------|
|             | m <sup>3</sup> /h | l/s |           |              |       | Shaft Power | Motor Power |              |
| 1           | 1370              | 381 | 9.44      | 980          | 70    | 50.3        | 55          | 450          |
|             | 1760              | 489 | 7.0       |              | 79.6  | 42.2        |             |              |
|             | 2050              | 569 | 4.35      |              | 78.5  | 31.0        |             |              |
| 2           | 1720              | 478 | 8.2       |              | 74.5  | 51.6        |             |              |
|             | 2010              | 558 | 6.43      |              | 80    | 44.0        |             |              |
|             | 2250              | 625 | 4.9       |              | 73.5  | 40.9        |             |              |
| 3           | 2099              | 583 | 7.0       |              | 79.9  | 50.1        |             |              |
|             | 2160              | 600 | 6.3       |              | 81.2  | 45.7        |             |              |
|             | 2510              | 697 | 3.9       |              | 77    | 34.6        |             |              |
| 4           | 2340              | 650 | 6.6       |              | 81.5  | 51.6        |             |              |
|             | 2560              | 711 | 5.6       |              | 82    | 47.6        |             |              |
|             | 2660              | 739 | 4.67      |              | 81.5  | 41.5        |             |              |
| 5           | 2556              | 710 | 6.2       |              | 82.2  | 52.5        |             |              |
|             | 2700              | 750 | 5.6       |              | 83    | 49.6        |             |              |
|             | 2858              | 794 | 4.4       |              | 79    | 43.4        |             |              |

AVS 450-500-II Selection Chart 980 RPM

| Impeller<br>Nr | Flow |     | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|-----|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 1764 | 490 | 6.05 | 980   | 79.7     | 36.5           | 55             | 450             |
|                | 2160 | 600 | 3.7  |       | 82.0     | 26.6           |                |                 |
|                | 2275 | 632 | 2.9  |       | 79.7     | 22.6           |                |                 |
| 2              | 1980 | 550 | 6.0  |       | 81.6     | 39.7           |                |                 |
|                | 2340 | 650 | 4.0  |       | 84.3     | 30.3           |                |                 |
|                | 2466 | 685 | 3.15 |       | 81.6     | 25.9           |                |                 |
| 3              | 2160 | 600 | 6.18 |       | 81.6     | 44.6           |                |                 |
|                | 2513 | 698 | 4.2  |       | 85.2     | 33.8           |                |                 |
|                | 2700 | 750 | 3.1  |       | 81.6     | 28.0           |                |                 |
| 4              | 2322 | 645 | 6.4  |       | 81.6     | 49.6           |                |                 |
|                | 2700 | 750 | 4.3  |       | 85.2     | 37.1           |                |                 |
|                | 2916 | 810 | 3.05 |       | 81.6     | 29.7           |                |                 |
| 5              | 2498 | 694 | 6.4  |       | 81.6     | 53.4           | 65             |                 |
|                | 2844 | 790 | 4.68 |       | 85.2     | 42.6           |                |                 |
|                | 3114 | 865 | 3.25 |       | 81.6     | 33.8           |                |                 |
| 6              | 2736 | 760 | 6.2  |       | 81.6     | 56.6           |                |                 |
|                | 2995 | 832 | 5.0  |       | 85.2     | 47.9           |                |                 |
|                | 3276 | 910 | 3.6  |       | 81.6     | 39.4           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 450 mm | ISO 9906 Grade 2 |

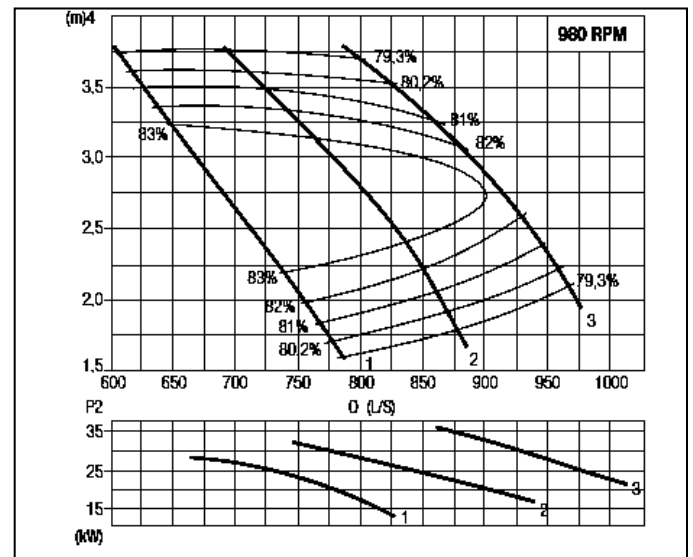
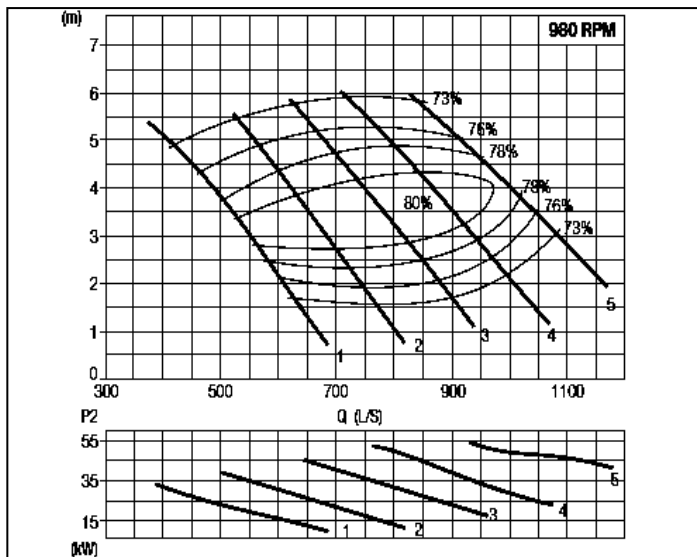
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 450 mm | ISO 9906 Grade 2 |

## AVS 450-500-III Selection Chart 980 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 1620 | 450  | 4.55 | 980   | 75.0     | 26.8           | 30             | 450             |
|                | 1692 | 545  | 3.2  |       | 80.5     | 21.3           |                |                 |
|                | 2196 | 610  | 2.0  |       | 75.0     | 16.0           |                |                 |
| 2              | 2070 | 575  | 4.75 |       | 78.0     | 34.4           | 37             |                 |
|                | 2394 | 665  | 3.3  |       | 81.5     | 26.4           |                |                 |
|                | 2700 | 750  | 1.9  |       | 75.0     | 18.6           |                |                 |
| 3              | 2484 | 690  | 4.8  |       | 78.5     | 41.4           | 45             |                 |
|                | 2844 | 790  | 3.5  |       | 82.5     | 32.9           |                |                 |
|                | 3204 | 890  | 2.0  |       | 73.5     | 23.8           |                |                 |
| 4              | 2808 | 780  | 5.1  |       | 76.5     | 51.0           | 55             |                 |
|                | 3240 | 900  | 3.6  |       | 82.0     | 38.8           |                |                 |
|                | 3510 | 975  | 2.5  |       | 75.0     | 31.9           |                |                 |
| 5              | 3366 | 935  | 4.4  |       | 78.6     | 51.3           |                |                 |
|                | 3636 | 1010 | 4.0  |       | 79.5     | 49.9           |                |                 |
|                | 3834 | 1065 | 3.6  |       | 76.5     | 49.2           |                |                 |

## AVS 450-500-IV Selection Chart 980 RPM

| Impeller<br>Nr | Flow |     | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|-----|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2192 | 609 | 3.72 | 980   | 79.3     | 28.0           | 37             | 450             |
|                | 2545 | 707 | 2.56 |       | 84.2     | 21.1           |                |                 |
|                | 2804 | 779 | 1.71 |       | 79.3     | 16.5           |                |                 |
| 2              | 2569 | 714 | 3.57 |       | 79.3     | 31.5           |                |                 |
|                | 2956 | 821 | 2.57 |       | 84.2     | 24.6           |                |                 |
|                | 3158 | 877 | 1.79 |       | 79.3     | 19.4           |                |                 |
| 3              | 2898 | 830 | 3.41 |       | 79.3     | 35.0           | 45             |                 |
|                | 3194 | 887 | 3.02 |       | 82.0     | 32.1           |                |                 |
|                | 3474 | 965 | 2.13 |       | 80.2     | 25.1           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 450 mm | ISO 9906 Grade 2 |

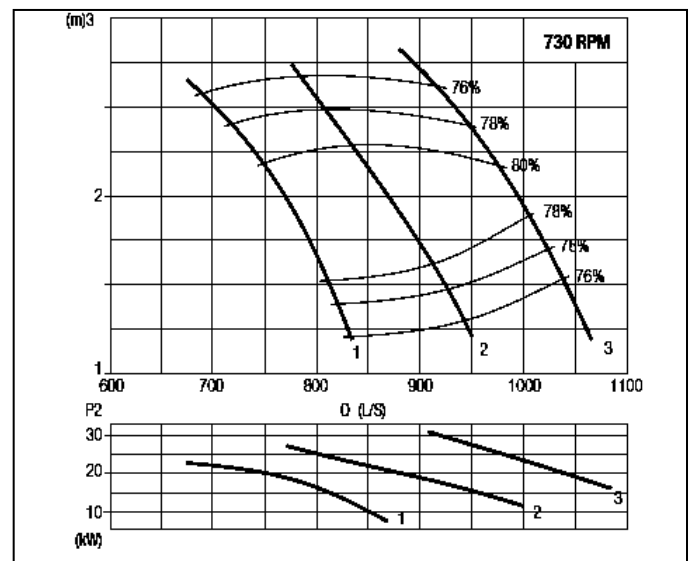
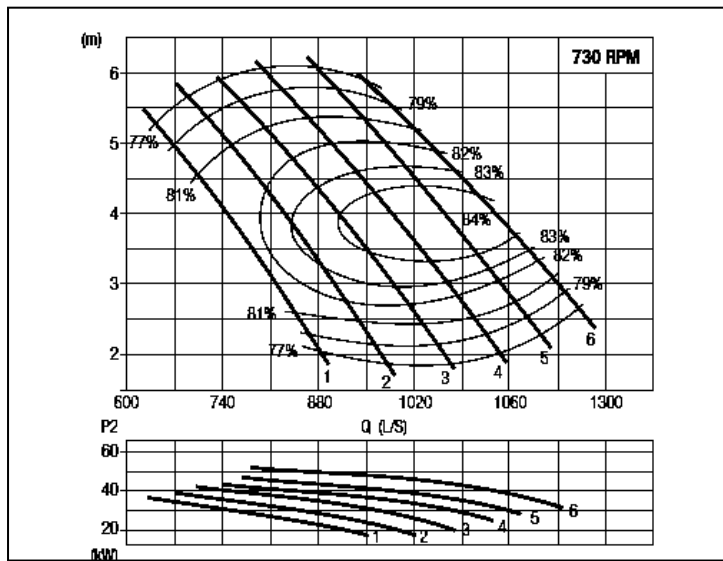
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 450 mm | ISO 9906 Grade 2 |

## AVS 550-600-I Selection Chart 730 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2556 | 710  | 4.45 | 730   | 81.1     | 38.2           | 45             | 550             |
|                | 2808 | 780  | 3.49 |       | 81.6     | 32.7           |                |                 |
|                | 3132 | 870  | 2.43 |       | 77.0     | 26.9           |                |                 |
| 2              | 3024 | 840  | 4.0  |       | 83.1     | 39.7           |                |                 |
|                | 3132 | 870  | 3.54 |       | 83.4     | 36.2           |                |                 |
|                | 3348 | 930  | 2.66 |       | 81.3     | 29.8           |                |                 |
| 3              | 3132 | 870  | 4.45 |       | 83.0     | 45.8           | 55             |                 |
|                | 3420 | 950  | 3.49 |       | 84.0     | 38.7           |                |                 |
|                | 3672 | 1020 | 2.52 |       | 81.2     | 31.1           |                |                 |
| 4              | 3348 | 930  | 4.47 |       | 82.7     | 49.3           |                |                 |
|                | 3672 | 1020 | 3.59 |       | 84.2     | 42.7           |                |                 |
|                | 3852 | 1070 | 2.95 |       | 83.0     | 37.3           |                |                 |
| 5              | 3924 | 1090 | 3.73 |       | 84.0     | 47.5           |                |                 |
|                | 4104 | 1140 | 3.37 |       | 84.2     | 44.8           |                |                 |
|                | 4176 | 1160 | 2.90 |       | 81.7     | 40.4           |                |                 |
| 6              | 4176 | 1160 | 3.79 |       | 84.2     | 51.2           |                |                 |
|                | 4284 | 1190 | 3.41 |       | 83.3     | 47.8           |                |                 |
|                | 4482 | 1245 | 3.0  |       | 81.0     | 45.2           |                |                 |

## AVS 550-600-II Selection Chart 730 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2520 | 700  | 2.5  | 730   | 77       | 22.29          | 30             | 550             |
|                | 2700 | 750  | 2.2  |       | 80       | 20.23          |                |                 |
|                | 2916 | 810  | 1.5  |       | 78       | 15.27          |                |                 |
| 2              | 2880 | 800  | 2.5  |       | 78       | 25.15          | 37             |                 |
|                | 3240 | 900  | 1.75 |       | 79       | 14.55          |                |                 |
|                | 3384 | 940  | 1.1  |       | 76       | 13.34          |                |                 |
| 3              | 3348 | 950  | 2.35 |       | 78       | 27.48          |                |                 |
|                | 3528 | 980  | 2.2  |       | 80       | 26.43          |                |                 |
|                | 3744 | 1040 | 1.5  |       | 76       | 20.13          |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 550 mm | ISO 9906 Grade 2 |

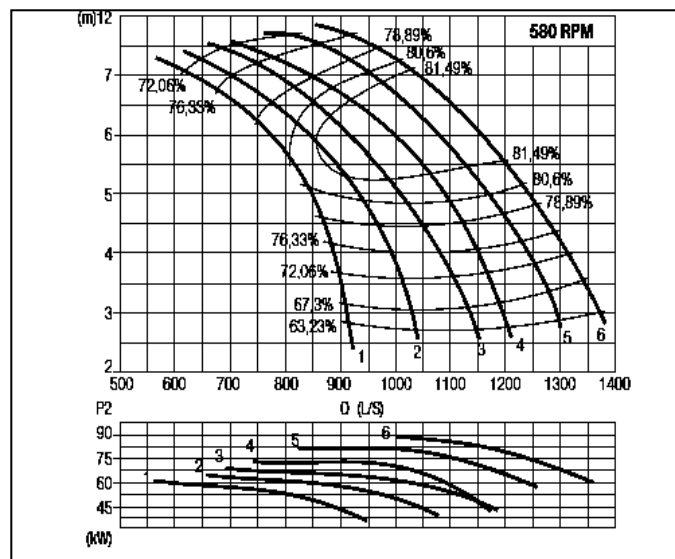
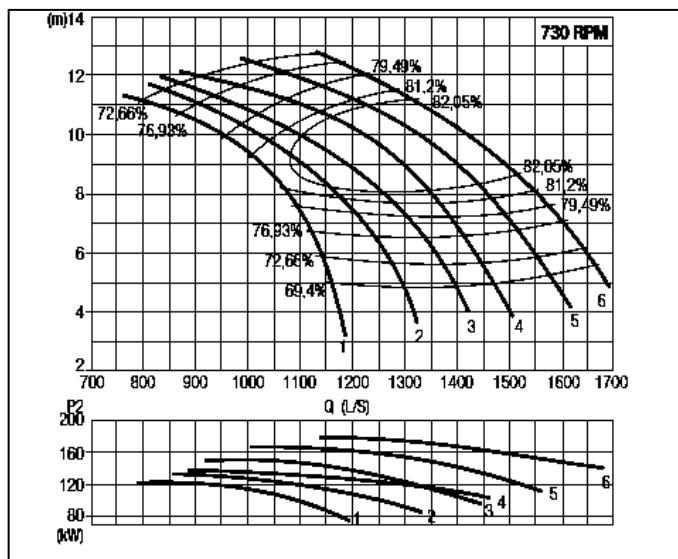
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 550 mm | ISO 9906 Grade 2 |

**AVS 600-700 Selection Chart 730 RPM**

| Impeller<br>Nr | Flow |      | Head  | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|-------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m     | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2827 | 785  | 11.07 | 730   | 72.7     | 117.4          | 132            | 600             |
|                | 3715 | 1032 | 8.75  |       | 81.5     | 108.7          |                |                 |
|                | 4135 | 1149 | 4.24  |       | 65.0     | 73.5           |                |                 |
| 2              | 3893 | 1081 | 9.39  |       | 82.0     | 121.5          |                |                 |
|                | 4010 | 1114 | 9.00  |       | 82.1     | 119.8          |                |                 |
|                | 4698 | 1305 | 5.60  |       | 72.7     | 98.6           |                |                 |
| 3              | 3103 | 862  | 11.70 |       | 72.7     | 136.1          | 160            |                 |
|                | 4334 | 1204 | 9.00  |       | 82.5     | 128.8          |                |                 |
|                | 5112 | 1420 | 5.25  |       | 70.0     | 104.5          |                |                 |
| 4              | 3436 | 954  | 11.32 |       | 76.9     | 137.8          |                |                 |
|                | 4653 | 1293 | 9.24  |       | 82.1     | 142.7          |                |                 |
|                | 5191 | 1442 | 4.81  |       | 72.7     | 93.6           |                |                 |
| 5              | 3879 | 1078 | 12.05 |       | 76.9     | 165.6          | 185            |                 |
|                | 4896 | 1360 | 9.50  |       | 83.0     | 152.7          |                |                 |
|                | 5738 | 1594 | 5.85  |       | 72.7     | 125.8          |                |                 |
| 6              | 4749 | 1319 | 11.07 |       | 82.0     | 174.7          |                |                 |
|                | 5162 | 1434 | 9.75  |       | 83.0     | 165.2          |                |                 |
|                | 6017 | 1671 | 6.14  |       | 72.7     | 138.5          |                |                 |

**AVS 600-700-I Selection Chart 580 RPM**

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2246 | 624  | 6.99 | 590   | 71.9     | 59.5           | 75             | 600             |
|                | 2952 | 820  | 5.52 |       | 80.9     | 54.9           |                |                 |
|                | 3285 | 913  | 2.68 |       | 64.0     | 37.5           |                |                 |
| 2              | 3093 | 859  | 5.93 |       | 81.4     | 61.4           |                |                 |
|                | 3186 | 885  | 5.68 |       | 81.8     | 60.3           |                |                 |
|                | 3733 | 1037 | 3.54 |       | 71.9     | 50.1           |                |                 |
| 3              | 2465 | 685  | 7.39 |       | 71.9     | 69.0           | 90             |                 |
|                | 3444 | 957  | 5.68 |       | 81.9     | 65.1           |                |                 |
|                | 4062 | 1128 | 3.31 |       | 70.0     | 52.3           |                |                 |
| 4              | 2730 | 758  | 7.15 |       | 76.2     | 69.8           |                |                 |
|                | 3697 | 1027 | 5.83 |       | 81.5     | 72.1           |                |                 |
|                | 4124 | 1146 | 3.04 |       | 71.9     | 47.5           |                |                 |
| 5              | 3082 | 856  | 7.61 |       | 76.2     | 83.9           | 110            |                 |
|                | 2890 | 1081 | 6.00 |       | 82.4     | 77.2           |                |                 |
|                | 4559 | 1266 | 3.69 |       | 71.9     | 63.8           |                |                 |
| 6              | 3773 | 1048 | 6.99 |       | 81.4     | 88.3           |                |                 |
|                | 4102 | 1139 | 6.15 |       | 82.4     | 83.4           |                |                 |
|                | 4781 | 1328 | 3.88 |       | 71.9     | 70.3           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 5            | Ø 600 mm | ISO 9906 Grade 2 |

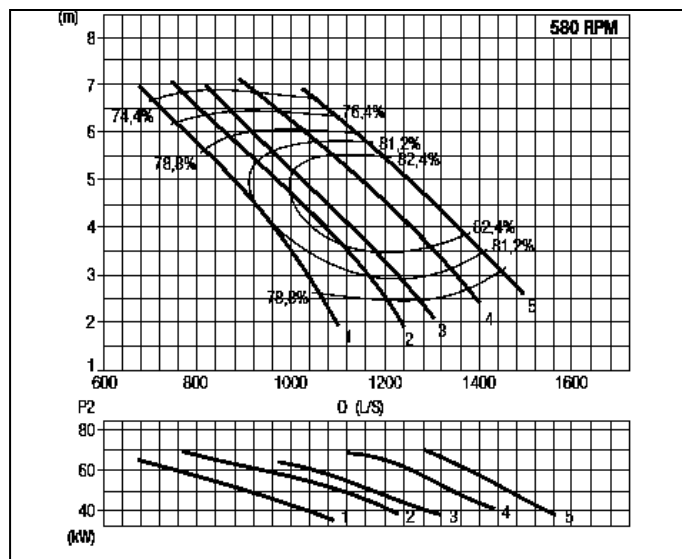
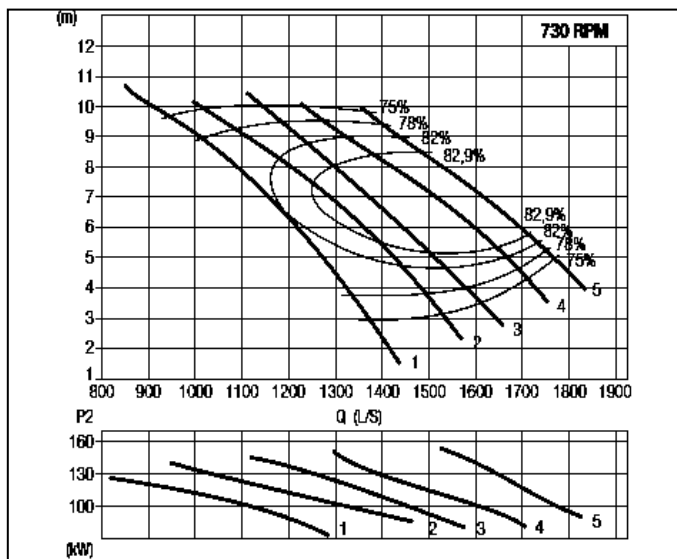
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 600 mm | ISO 9906 Grade 2 |

## AVS 650-700-I Selection Chart 730 RPM

| Impeller Nr | Flow              |      | Head  | Speed<br>Rpm | Eff % | Power (kW)  |             | Impeller Dia |
|-------------|-------------------|------|-------|--------------|-------|-------------|-------------|--------------|
|             | m <sup>3</sup> /h | l/s  | m     |              |       | Shaft Power | Motor Power |              |
| 1           | 3038              | 844  | 10.80 | 730          | 72.1  | 124         | 160         | 650          |
|             | 3908              | 1086 | 8.04  |              | 82.0  | 104.4       |             |              |
|             | 4563              | 1268 | 4.99  |              | 81.0  | 76.6        |             |              |
| 2           | 3828              | 1063 | 9.41  |              | 76.5  | 128.3       |             |              |
|             | 4467              | 1241 | 7.58  |              | 81.4  | 113.4       |             |              |
|             | 4995              | 1388 | 5.63  |              | 75.4  | 101.6       |             |              |
| 3           | 4595              | 1276 | 8.04  |              | 81.3  | 123.8       |             |              |
|             | 4795              | 1332 | 7.25  |              | 82.5  | 114.8       |             |              |
|             | 5562              | 1545 | 4.48  |              | 78.6  | 86.4        |             |              |
| 4           | 5195              | 1443 | 7.58  |              | 82.6  | 129.9       |             |              |
|             | 5682              | 1578 | 6.31  |              | 83.5  | 117.0       |             |              |
|             | 5922              | 1645 | 5.36  |              | 82.8  | 104.5       |             |              |
| 5           | 5760              | 1600 | 7.20  |              | 83.2  | 135.8       |             |              |
|             | 5994              | 1665 | 6.43  |              | 84.2  | 124.7       |             |              |
|             | 6340              | 1761 | 5.05  |              | 80.3  | 108.7       |             |              |

## AVS 650-700-II Selection Chart 580 RPM

| Impeller Nr | Flow              |      | Head  | Speed<br>Rpm | Eff % | Power (kW)  |             | Impeller Dia |
|-------------|-------------------|------|-------|--------------|-------|-------------|-------------|--------------|
|             | m <sup>3</sup> /h | l/s  | m     |              |       | Shaft Power | Motor Power |              |
| 1           | 2410              | 669  | 6.96  | 590          | 70.5  | 64.8        | 80          | 650          |
|             | 3110              | 864  | 5.17  |              | 80.0  | 54.8        |             |              |
|             | 3660              | 1017 | 3.20  |              | 78.8  | 40.5        |             |              |
| 2           | 2786              | 774  | 6.75  |              | 75.0  | 68.3        |             |              |
|             | 3557              | 988  | 4.74  |              | 80.5  | 57.1        |             |              |
|             | 3974              | 1104 | 3.61  |              | 75.9  | 51.5        |             |              |
| 3           | 3506              | 974  | 5.44  |              | 79.4  | 65.5        |             |              |
|             | 3820              | 1061 | 4.66  |              | 81.5  | 59.5        |             |              |
|             | 4446              | 1235 | 2.85  |              | 77.4  | 44.6        |             |              |
| 4           | 4060              | 1128 | 5.417 |              | 81.8  | 69.9        |             |              |
|             | 4529              | 1258 | 4.00  |              | 82.3  | 60.0        |             |              |
|             | 4720              | 1311 | 3.44  |              | 81.8  | 54.1        |             |              |
| 5           | 4658              | 1294 | 4.60  |              | 83.3  | 70.1        |             |              |
|             | 4975              | 1382 | 3.69  |              | 82.8  | 60.4        |             |              |
|             | 5120              | 1422 | 3.20  |              | 79.3  | 56.3        |             |              |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 650 mm | ISO 9906 Grade 2 |

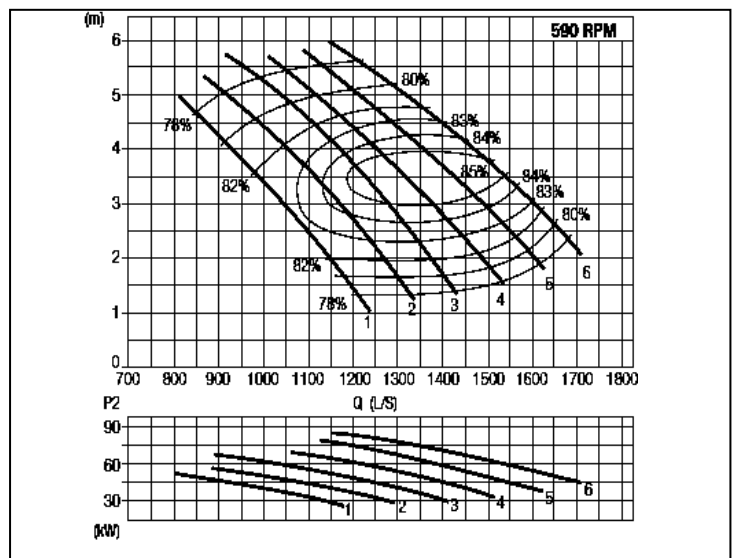
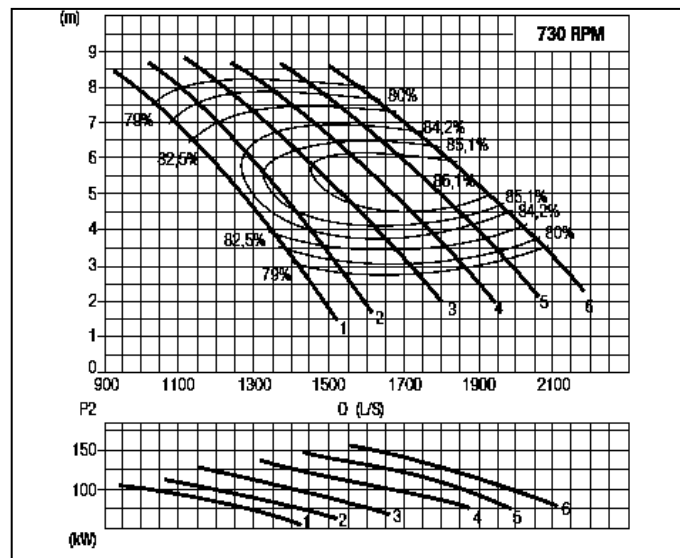
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 650 mm | ISO 9906 Grade 2 |

**AVS 650-700-III Selection Chart 730 RPM**

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |     |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|-----|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |     |
| 1              | 3888 | 1080 | 7.00 | 730   | 79.0     | 93.9           | 110            | 650             |     |
|                | 4572 | 1270 | 5.00 |       | 81.0     | 76.9           |                |                 |     |
|                | 5040 | 1400 | 3.30 |       | 79.0     | 57.4           |                |                 |     |
| 2              | 4176 | 1160 | 7.20 |       | 79.0     | 103.7          | 132            |                 |     |
|                | 4860 | 1350 | 5.30 |       | 82.5     | 85.1           |                |                 |     |
|                | 5472 | 1520 | 3.00 |       | 79.0     | 56.6           |                |                 |     |
| 3              | 4572 | 1270 | 7.50 |       | 79.0     | 118.3          |                |                 | 132 |
|                | 5329 | 1480 | 5.50 |       | 83.0     | 96.2           |                |                 |     |
|                | 5976 | 1660 | 3.35 |       | 79.0     | 69.1           |                |                 |     |
| 4              | 4968 | 1380 | 7.60 |       | 79.0     | 130.2          | 160            |                 |     |
|                | 5850 | 1625 | 5.50 |       | 83.4     | 105.1          |                |                 |     |
|                | 6516 | 1810 | 3.45 |       | 79.0     | 77.5           |                |                 |     |
| 5              | 5400 | 1500 | 7.65 |       | 79.0     | 142.5          | 185            |                 |     |
|                | 6300 | 1750 | 5.50 |       | 83.4     | 113.2          |                |                 |     |
|                | 6948 | 1930 | 3.55 |       | 79.0     | 85.1           |                |                 |     |
| 6              | 5760 | 1600 | 7.60 |       | 79.0     | 151.0          |                |                 | 185 |
|                | 6660 | 1850 | 5.70 |       | 83.4     | 124.0          |                |                 |     |
|                | 7380 | 2060 | 3.70 |       | 79.0     | 94.2           |                |                 |     |

**AVS 650-700-IV Selection Chart 580 RPM**

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 3021 | 839  | 4.76 | 590   | 78.0     | 50.2           | 55             | 650             |
|                | 3693 | 1026 | 3.20 |       | 82.0     | 39.3           |                |                 |
|                | 4166 | 1157 | 1.89 |       | 78.0     | 27.5           |                |                 |
| 2              | 3230 | 897  | 5.13 |       | 80.0     | 56.4           | 75             |                 |
|                | 4172 | 1159 | 3.14 |       | 84.0     | 42.5           |                |                 |
|                | 4345 | 1207 | 1.98 |       | 78.0     | 30.1           |                |                 |
| 3              | 3368 | 936  | 5.60 |       | 78.0     | 65.9           | 75             |                 |
|                | 4506 | 1252 | 3.17 |       | 85.0     | 45.8           |                |                 |
|                | 4979 | 1383 | 1.94 |       | 80.0     | 32.9           |                |                 |
| 4              | 3981 | 1106 | 5.09 |       | 80.0     | 69.0           | 90             |                 |
|                | 4875 | 1354 | 3.20 |       | 85.0     | 50.0           |                |                 |
|                | 5363 | 1490 | 2.02 |       | 80.0     | 36.9           |                |                 |
| 5              | 4173 | 1159 | 5.34 |       | 78.0     | 77.9           | 110            |                 |
|                | 5171 | 1436 | 3.40 |       | 85.0     | 56.4           |                |                 |
|                | 5769 | 1603 | 2.03 |       | 78.0     | 40.9           |                |                 |
| 6              | 4196 | 1166 | 5.88 |       | 78.0     | 86.2           | 110            |                 |
|                | 5540 | 1539 | 3.40 |       | 85.0     | 60.4           |                |                 |
|                | 6079 | 1689 | 2.29 |       | 78.0     | 48.6           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 5            | Ø 650 mm | ISO 9906 Grade 2 |

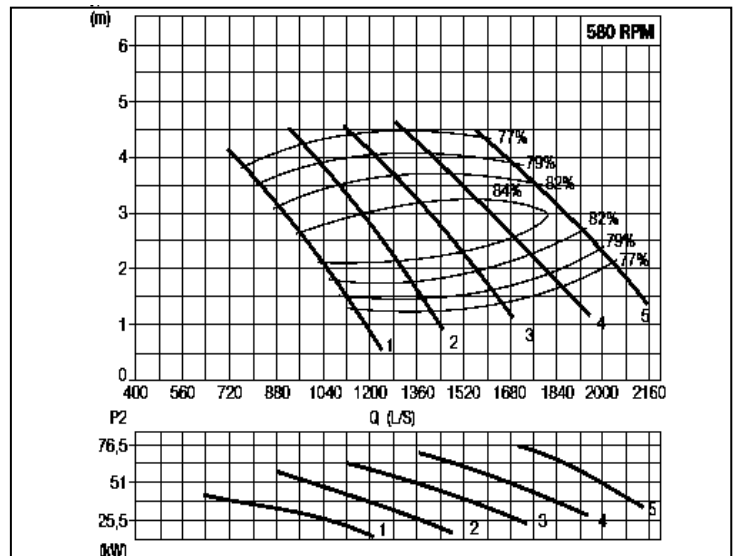
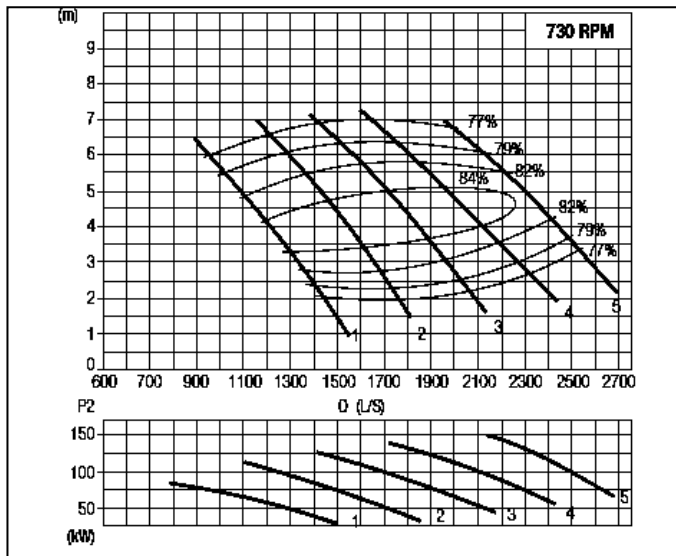
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 650 mm | ISO 9906 Grade 2 |

## AVS 650-700-V Selection Chart 730 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 3398 | 944  | 6.10 | 730   | 77.0     | 73.4           | 90             | 650             |
|                | 4572 | 1270 | 3.61 |       | 84.0     | 53.5           |                |                 |
|                | 5141 | 1428 | 2.12 |       | 78.0     | 38.1           |                |                 |
| 2              | 4799 | 1333 | 5.80 |       | 79.0     | 96.0           | 110            |                 |
|                | 5533 | 1537 | 4.05 |       | 82.5     | 74.0           |                |                 |
|                | 6048 | 1680 | 2.57 |       | 79.0     | 53.6           |                |                 |
| 3              | 5825 | 1618 | 5.67 |       | 81.0     | 111.1          | 132            |                 |
|                | 6635 | 1843 | 4.05 |       | 82.5     | 88.8           |                |                 |
|                | 7222 | 2006 | 2.70 |       | 79.0     | 67.3           |                |                 |
| 4              | 6487 | 1802 | 6.08 |       | 79.0     | 136.0          | 160            |                 |
|                | 7441 | 2067 | 4.32 |       | 82.5     | 106.2          |                |                 |
|                | 7956 | 2210 | 3.24 |       | 79.0     | 88.9           |                |                 |
| 5              | 8352 | 2320 | 4.81 |       | 83.0     | 131.9          |                |                 |
|                | 8402 | 2334 | 4.17 |       | 82.0     | 116.4          |                |                 |
|                | 8910 | 2475 | 3.73 |       | 79.0     | 114.6          |                |                 |

## AVS 650-700 Selection Chart 580 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 2725 | 757  | 3.92 | 590   | 76.0     | 38.3           | 45             | 650             |
|                | 3668 | 1019 | 2.32 |       | 83.3     | 27.8           |                |                 |
|                | 4104 | 1140 | 1.36 |       | 77.2     | 19.7           |                |                 |
| 2              | 3636 | 1010 | 3.98 |       | 78.5     | 50.2           | 55             |                 |
|                | 4511 | 1253 | 2.40 |       | 83.8     | 35.2           |                |                 |
|                | 5051 | 1403 | 1.24 |       | 75.5     | 22.6           |                |                 |
| 3              | 4392 | 1220 | 4.00 |       | 79.5     | 60.2           | 75             |                 |
|                | 5314 | 1476 | 2.57 |       | 83.8     | 44.4           |                |                 |
|                | 5922 | 1645 | 1.51 |       | 76.5     | 31.9           |                |                 |
| 4              | 5069 | 1408 | 4.04 |       | 79.0     | 70.6           | 90             |                 |
|                | 5951 | 1653 | 2.74 |       | 83.3     | 53.3           |                |                 |
|                | 6400 | 1778 | 2.02 |       | 80.0     | 44.0           |                |                 |
| 5              | 5995 | 1665 | 4.00 |       | 78.8     | 82.9           |                |                 |
|                | 6682 | 1856 | 3.10 |       | 82.5     | 68.4           |                |                 |
|                | 6732 | 1870 | 3.03 |       | 82.5     | 67.4           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 650 mm | ISO 9906 Grade 2 |

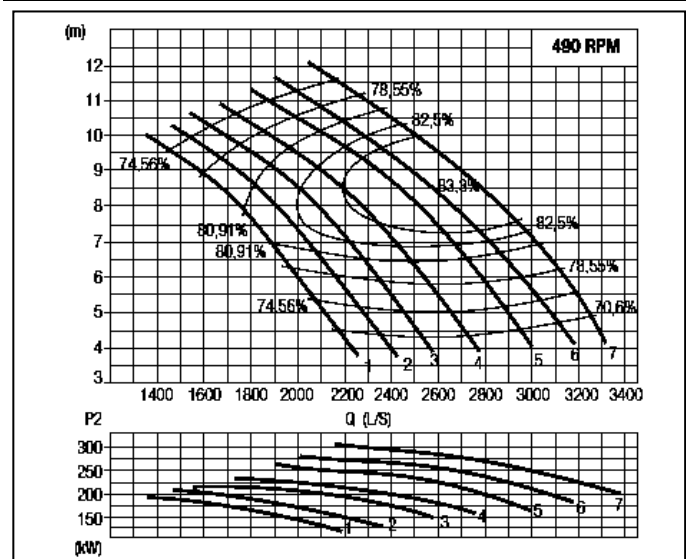
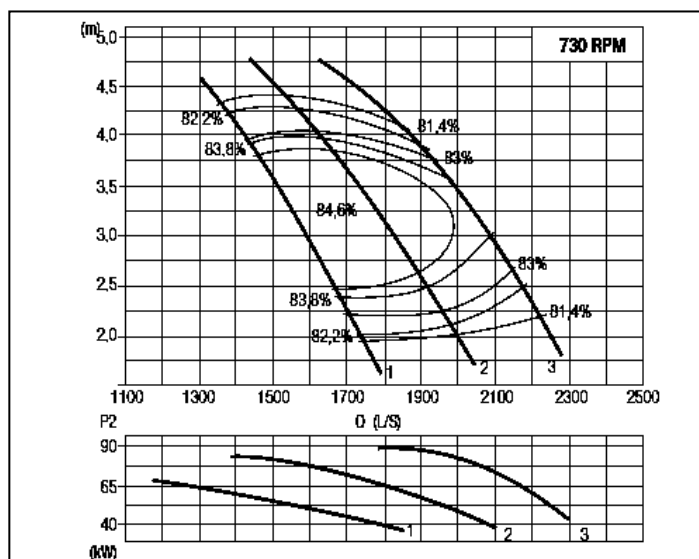
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 650 mm | ISO 9906 Grade 2 |

AVS 650-700-A Selection Chart 730 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 4922 | 1367 | 4.30 | 730   | 81.4     | 70.9           | 90             | 650             |
|                | 5715 | 1588 | 2.96 |       | 85.0     | 54.2           |                |                 |
|                | 6295 | 1749 | 1.98 |       | 81.4     | 41.7           |                |                 |
| 2              | 5766 | 1602 | 4.13 |       | 81.4     | 79.7           |                |                 |
|                | 6637 | 1844 | 2.97 |       | 85.6     | 62.8           |                |                 |
|                | 7086 | 1968 | 2.07 |       | 81.4     | 49.1           |                |                 |
| 3              | 6710 | 1864 | 3.95 |       | 81.4     | 88.7           | 110            |                 |
|                | 7171 | 1992 | 3.50 |       | 83.8     | 81.6           |                |                 |
|                | 7798 | 2166 | 2.46 |       | 82.2     | 63.6           |                |                 |

AVS 850-900-I Selection Chart 490 RPM

| Impeller<br>Nr | Flow  |      | Head  | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |     |
|----------------|-------|------|-------|-------|----------|----------------|----------------|-----------------|-----|
|                | m3/h  | l/s  | m     | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |     |
| 1              | 5161  | 1434 | 9.65  | 490   | 74.6     | 181.9          | 220            | 850             |     |
|                | 6472  | 1798 | 7.82  |       | 81.0     | 170.3          |                |                 |     |
|                | 7596  | 2110 | 4.58  |       | 70.6     | 134.3          |                |                 |     |
| 2              | 5669  | 1572 | 9.77  |       | 75.0     | 200.9          |                |                 | 220 |
|                | 7139  | 1983 | 7.82  |       | 82.8     | 183.7          |                |                 |     |
|                | 8578  | 2383 | 3.83  |       | 66.6     | 134.4          |                |                 |     |
| 3              | 5638  | 1566 | 10.31 |       | 74.6     | 212.3          |                |                 | 220 |
|                | 7761  | 2156 | 8.06  |       | 84.0     | 202.9          |                |                 |     |
|                | 9187  | 2552 | 4.37  |       | 70.6     | 155.0          |                |                 |     |
| 4              | 6558  | 1822 | 10.24 |       | 78.5     | 233.1          | 250            |                 |     |
|                | 7995  | 2221 | 8.3   |       | 84.0     | 215.3          |                |                 |     |
|                | 10038 | 2788 | 3.91  |       | 67.0     | 159.6          |                |                 |     |
| 5              | 7457  | 2071 | 10.19 |       | 80.9     | 256.0          | 280            |                 |     |
|                | 8882  | 2467 | 8.34  |       | 84.2     | 239.7          |                |                 |     |
|                | 10571 | 2936 | 4.42  |       | 70.6     | 180.3          |                |                 |     |
| 6              | 7402  | 2056 | 10.9  |       | 78.5     | 280.1          | 315            |                 |     |
|                | 9350  | 2597 | 8.55  |       | 84.0     | 259.3          |                |                 |     |
|                | 11357 | 3155 | 4.02  |       | 66.6     | 186.8          |                |                 |     |
| 7              | 7859  | 2183 | 11.2  |       | 78.5     | 305.5          | 355            |                 |     |
|                | 9830  | 2731 | 8.79  |       | 84.0     | 280.3          |                |                 |     |
|                | 11774 | 3271 | 4.88  |       | 70.6     | 221.8          |                |                 |     |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 650 mm | ISO 9906 Grade 2 |

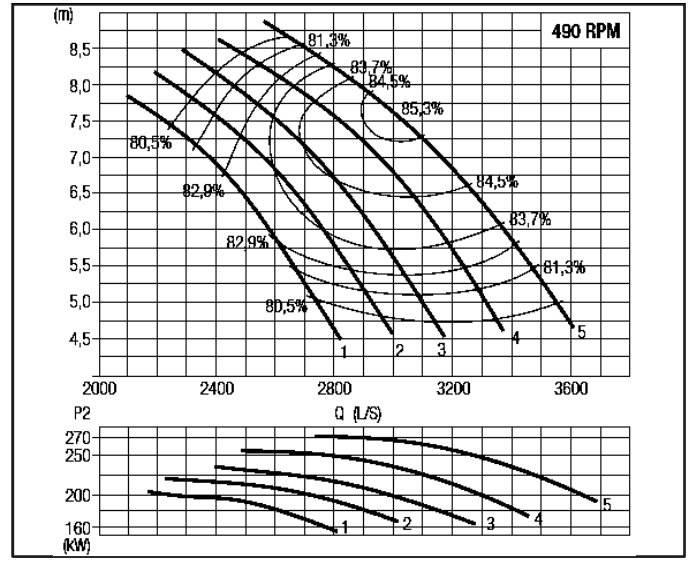
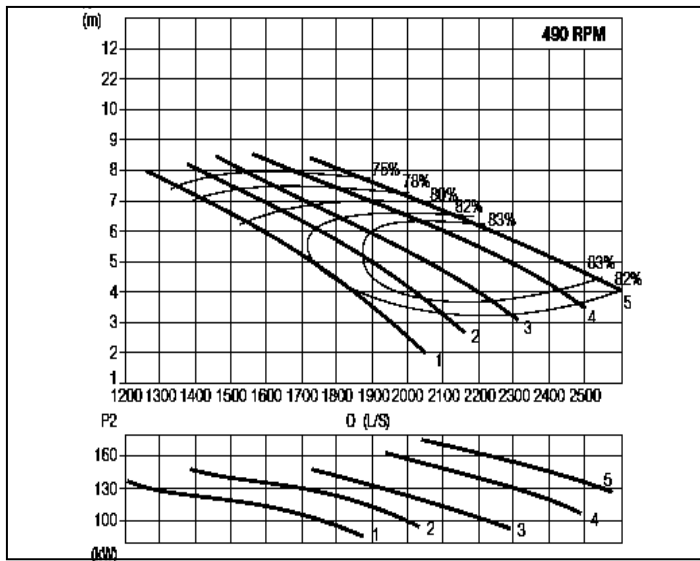
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 5            | Ø 850 mm | ISO 9906 Grade 2 |

## AVS 850-900-II Selection Chart 490 RPM

| Impeller<br>Nr | Flow |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 4500 | 1250 | 8.06 | 490   | 74.0     | 133.6          | 160            | 850             |
|                | 5800 | 1611 | 5.98 |       | 82.3     | 114.8          |                |                 |
|                | 6770 | 1881 | 3.72 |       | 81.4     | 84.3           |                |                 |
| 2              | 5190 | 1442 | 7.82 |       | 77.5     | 142.7          |                |                 |
|                | 6620 | 1839 | 5.49 |       | 82.7     | 119.8          |                |                 |
|                | 7410 | 2058 | 4.19 |       | 77.0     | 109.9          |                |                 |
| 3              | 6510 | 1808 | 6.41 |       | 81.8     | 139.0          | 185            |                 |
|                | 7200 | 2000 | 5.40 |       | 83.6     | 126.7          |                |                 |
|                | 8250 | 2292 | 3.33 |       | 80.1     | 93.5           |                |                 |
| 4              | 7560 | 2100 | 6.05 |       | 84.0     | 146.9          |                |                 |
|                | 8420 | 2339 | 4.70 |       | 84.4     | 127.8          |                |                 |
|                | 8790 | 2442 | 4.00 |       | 84.0     | 114.1          |                |                 |
| 5              | 7740 | 2150 | 6.82 |       | 84.2     | 170.1          |                |                 |
|                | 8650 | 2403 | 5.60 |       | 85.3     | 154.7          |                |                 |
|                | 9300 | 2583 | 4.27 |       | 84.8     | 127.6          |                |                 |

## AVS 850-900 Selection Chart 490 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 8748  | 2430 | 6.80 | 490   | 83.0     | 195.3          | 220            | 850             |
|                | 9288  | 2580 | 6.00 |       | 83.0     | 183.0          |                |                 |
|                | 9839  | 2733 | 5.00 |       | 80.5     | 166.5          |                |                 |
| 2              | 8350  | 2319 | 7.73 |       | 80.5     | 218.5          | 250            |                 |
|                | 9648  | 2680 | 6.50 |       | 83.8     | 203.9          |                |                 |
|                | 10620 | 2950 | 4.87 |       | 80.5     | 175.1          |                |                 |
| 3              | 8640  | 2400 | 8.17 |       | 80.5     | 238.9          | 280            |                 |
|                | 10080 | 2800 | 6.70 |       | 84.5     | 217.8          |                |                 |
|                | 11268 | 3130 | 4.77 |       | 80.5     | 181.9          |                |                 |
| 4              | 8964  | 2490 | 8.40 |       | 80.5     | 254.9          | 315            |                 |
|                | 10656 | 2960 | 7.00 |       | 84.5     | 240.5          |                |                 |
|                | 11988 | 3330 | 4.77 |       | 80.5     | 193.6          |                |                 |
| 5              | 9576  | 2660 | 8.25 |       | 82.9     | 259.6          | 315            |                 |
|                | 11340 | 3150 | 6.52 |       | 84.5     | 238.4          |                |                 |
|                | 12420 | 3450 | 4.82 |       | 80.5     | 202.6          |                |                 |
| 6              | 9720  | 2700 | 8.50 |       | 82.1     | 274.2          | 315            |                 |
|                | 11124 | 3090 | 7.33 |       | 85.3     | 260.5          |                |                 |
|                | 12816 | 3560 | 4.93 |       | 80.5     | 213.9          |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 4            | Ø 850 mm | ISO 9906 Grade 2 |

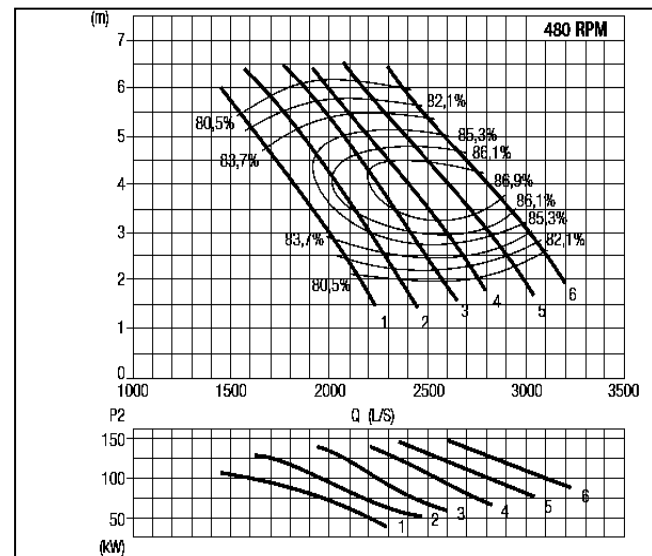
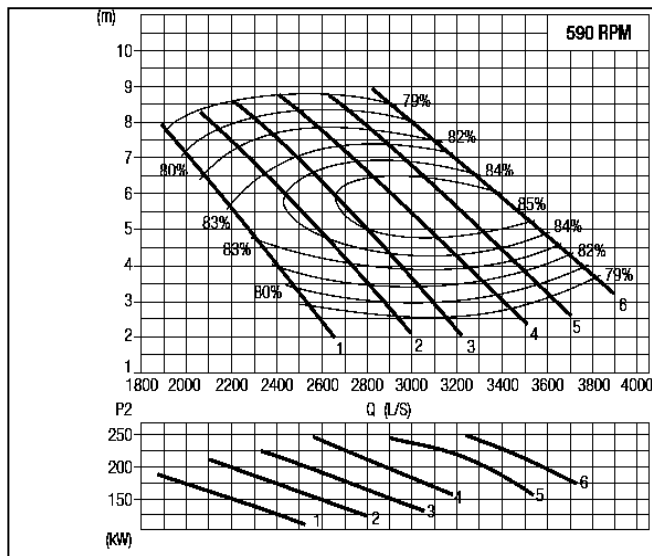
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 5            | Ø 850 mm | ISO 9906 Grade 2 |

**AVS 850-900-III Selection Chart 590 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 7416  | 2060 | 6.75 | 590   | 81.5     | 167.4          | 220            | 850             |
|                | 8316  | 2310 | 5.50 |       | 84.0     | 148.4          |                |                 |
|                | 8856  | 2460 | 4.00 |       | 82.0     | 117.7          |                |                 |
| 2              | 8208  | 2280 | 7.00 |       | 83.0     | 188.6          |                |                 |
|                | 9306  | 2585 | 5.50 |       | 84.5     | 165.1          |                |                 |
|                | 9792  | 2720 | 4.00 |       | 81.5     | 131.0          |                |                 |
| 3              | 8686  | 2413 | 7.50 |       | 82.5     | 215.2          | 250            |                 |
|                | 9576  | 2710 | 5.75 |       | 85.0     | 179.8          |                |                 |
|                | 10650 | 2958 | 4.00 |       | 82.0     | 141.6          |                |                 |
| 4              | 9720  | 2700 | 7.25 |       | 83.5     | 230.0          |                |                 |
|                | 10728 | 2980 | 5.50 |       | 85.0     | 189.2          |                |                 |
|                | 11448 | 3180 | 4.50 |       | 83.5     | 168.1          |                |                 |
| 5              | 10818 | 3005 | 6.80 |       | 84.5     | 237.2          |                |                 |
|                | 11412 | 3170 | 5.75 |       | 85.0     | 210.4          |                |                 |
|                | 12168 | 3380 | 4.50 |       | 83.5     | 178.7          |                |                 |
| 6              | 12168 | 3380 | 5.90 |       | 85.0     | 230.2          |                |                 |
|                | 12870 | 3575 | 4.80 |       | 83.5     | 201.6          |                |                 |
|                | 13835 | 3843 | 3.50 |       | 82.0     | 160.9          |                |                 |

**AVS 850-900-IV Selection Chart 480 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |     |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|-----|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |     |
| 1              | 5868  | 1630 | 5.00 | 490   | 80.0     | 99.9           | 132            | 850             |     |
|                | 6894  | 1915 | 3.50 |       | 82.5     | 79.7           |                |                 |     |
|                | 7569  | 2110 | 2.25 |       | 79.0     | 59.0           |                |                 |     |
| 2              | 6660  | 1850 | 5.00 |       | 80.5     | 112.7          |                |                 | 160 |
|                | 7488  | 2080 | 3.75 |       | 84.0     | 91.1           |                |                 |     |
|                | 8388  | 2330 | 2.25 |       | 80.0     | 64.3           |                |                 |     |
| 3              | 7578  | 2105 | 4.60 |       | 83.5     | 113.8          | 160            |                 |     |
|                | 8028  | 2230 | 3.90 |       | 85.0     | 100.4          |                |                 |     |
|                | 9072  | 2520 | 2.25 |       | 80.0     | 69.5           |                |                 |     |
| 4              | 7560  | 2100 | 5.50 |       | 80.5     | 140.8          |                |                 | 160 |
|                | 8658  | 2405 | 4.00 |       | 85.0     | 111.0          |                |                 |     |
|                | 9684  | 2690 | 2.50 |       | 80.9     | 81.5           |                |                 |     |
| 5              | 8460  | 2350 | 5.20 |       | 82.0     | 146.2          | 160            |                 |     |
|                | 9378  | 2605 | 4.00 |       | 85.0     | 120.3          |                |                 |     |
|                | 10244 | 2846 | 2.80 |       | 81.5     | 95.9           |                |                 |     |
| 6              | 9468  | 2630 | 4.75 |       | 84.0     | 145.9          |                |                 | 160 |
|                | 10080 | 2800 | 4.00 |       | 85.0     | 129.3          |                |                 |     |
|                | 10818 | 3005 | 3.00 |       | 81.8     | 108.1          |                |                 |     |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 850 mm | ISO 9906 Grade 2 |

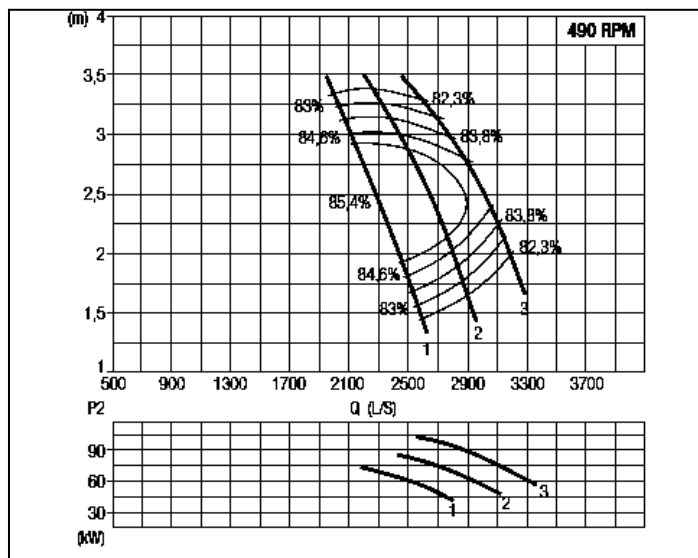
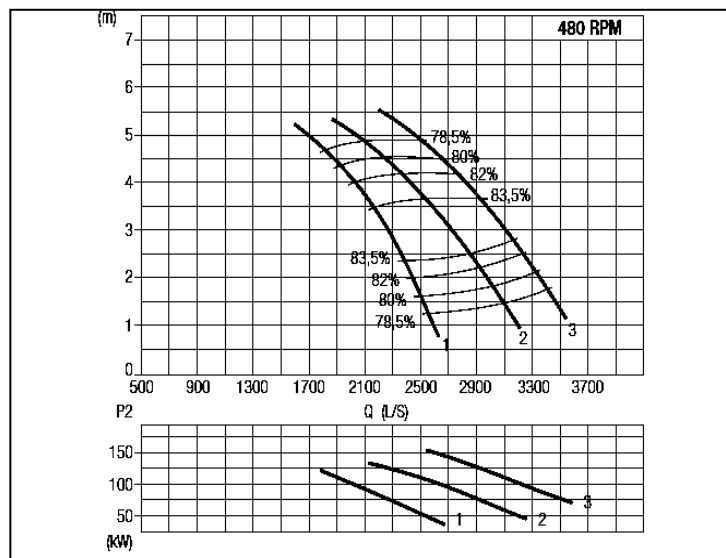
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 850 mm | ISO 9906 Grade 2 |

## AVS 850-900-V Selection Chart 480 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 7056  | 1960 | 4.30 | 490   | 80.0     | 103.3          | 115            | 850             |
|                | 8136  | 2260 | 3.00 |       | 83.5     | 79.7           |                |                 |
|                | 8892  | 2470 | 1.90 |       | 80.0     | 57.5           |                |                 |
| 2              | 8568  | 2380 | 4.20 |       | 82.0     | 119.6          | 132            |                 |
|                | 9756  | 2710 | 3.00 |       | 83.5     | 95.5           |                |                 |
|                | 10620 | 2950 | 2.00 |       | 80.0     | 72.3           |                |                 |
| 3              | 9540  | 2650 | 4.50 |       | 80.0     | 146.2          | 132            |                 |
|                | 10944 | 3040 | 3.20 |       | 83.5     | 114.3          |                |                 |
|                | 11700 | 3250 | 2.40 |       | 80.0     | 95.6           |                |                 |

## AVS 850-900-A Selection Chart 490 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 7315  | 2032 | 3.25 | 490   | 82.3     | 78.7           | 90             | 850             |
|                | 8492  | 2359 | 2.24 |       | 85.7     | 60.5           |                |                 |
|                | 9234  | 2565 | 1.57 |       | 83.0     | 47.6           |                |                 |
| 2              | 8568  | 2380 | 3.12 |       | 82.3     | 88.5           | 110            |                 |
|                | 9850  | 2736 | 2.25 |       | 86.5     | 69.8           |                |                 |
|                | 10476 | 2910 | 1.63 |       | 83.0     | 56.1           |                |                 |
| 3              | 9968  | 2769 | 3.00 |       | 82.3     | 99.0           | 132            |                 |
|                | 10656 | 2960 | 2.64 |       | 84.5     | 90.7           |                |                 |
|                | 11462 | 3184 | 2.01 |       | 83.0     | 75.6           |                |                 |



| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 850 mm | ISO 9906 Grade 2 |

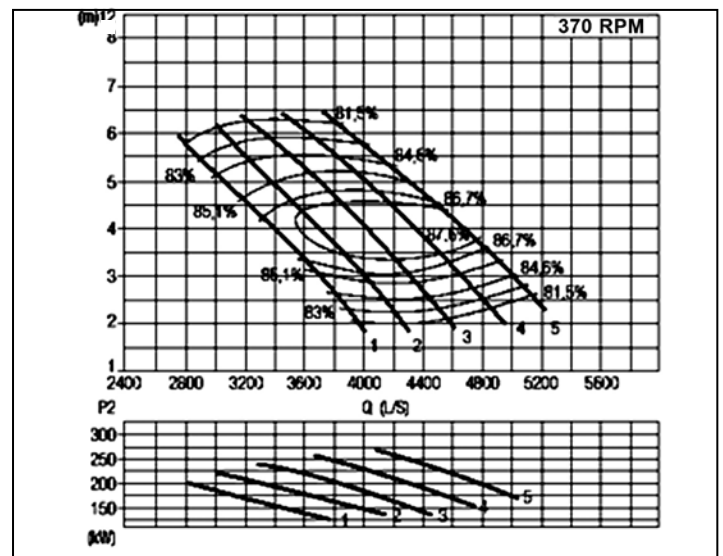
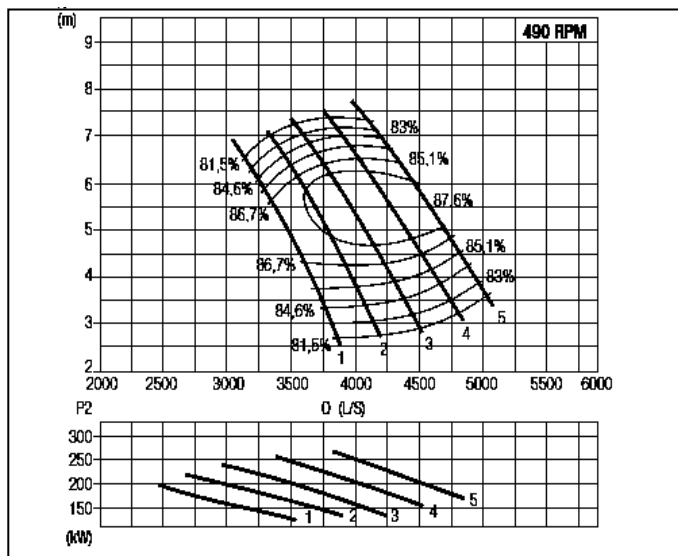
| No. of vanes | Impeller | Tolerance        |
|--------------|----------|------------------|
| 3            | Ø 850 mm | ISO 9906 Grade 2 |

**AVS 1000-I200-I Selection Chart 480 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 11304 | 3140 | 6.43 | 490   | 84.7     | 233.8          | 280            | 1000            |
|                | 13460 | 3739 | 5.00 |       | 85.4     | 214.7          |                |                 |
|                | 13644 | 3790 | 3.17 |       | 81.7     | 144.3          |                |                 |
| 2              | 11952 | 3320 | 6.84 |       | 84.7     | 263.0          |                |                 |
|                | 13460 | 3739 | 5.11 |       | 86.2     | 217.4          |                |                 |
|                | 14904 | 4140 | 3.07 |       | 81.7     | 152.6          |                |                 |
| 3              | 13865 | 3851 | 6.00 |       | 86.1     | 263.3          | 315            |                 |
|                | 14565 | 4046 | 5.11 |       | 86.2     | 235.3          |                |                 |
|                | 16020 | 4450 | 3.23 |       | 81.7     | 172.6          |                |                 |
| 4              | 13824 | 3840 | 7.21 |       | 84.7     | 320.7          | 355            |                 |
|                | 15448 | 4291 | 5.43 |       | 86.2     | 265.2          |                |                 |
|                | 17028 | 4730 | 3.53 |       | 81.7     | 200.5          |                |                 |
| 5              | 15624 | 4340 | 6.45 |       | 85.4     | 321.6          |                |                 |
|                | 16552 | 4598 | 5.42 |       | 86.2     | 283.6          |                |                 |
|                | 17964 | 4990 | 3.89 |       | 81.7     | 233.1          |                |                 |

**AVS 1100-I200-I Selection Chart 370 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 10584 | 2940 | 5.40 | 370   | 83.0     | 187.6          | 250            | 1100            |
|                | 12312 | 3420 | 4.00 |       | 86.9     | 154.4          |                |                 |
|                | 13752 | 3820 | 2.60 |       | 84.7     | 115.0          |                |                 |
| 2              | 11340 | 3150 | 5.70 |       | 83.0     | 212.2          |                |                 |
|                | 14220 | 3950 | 4.00 |       | 87.6     | 177.0          |                |                 |
|                | 14940 | 4150 | 2.58 |       | 84.6     | 124.2          |                |                 |
| 3              | 11808 | 3280 | 6.10 |       | 81.5     | 240.8          | 280            |                 |
|                | 14400 | 4000 | 4.15 |       | 87.6     | 185.9          |                |                 |
|                | 16056 | 4460 | 2.58 |       | 84.6     | 133.5          |                |                 |
| 4              | 13176 | 3660 | 5.90 |       | 82.2     | 257.7          | 315            |                 |
|                | 15840 | 4400 | 3.87 |       | 87.6     | 190.7          |                |                 |
|                | 17100 | 4750 | 2.75 |       | 84.6     | 151.5          |                |                 |
| 5              | 14688 | 4080 | 5.60 |       | 83.0     | 269.9          |                |                 |
|                | 16848 | 4680 | 4.00 |       | 87.6     | 209.6          |                |                 |
|                | 18000 | 5000 | 3.00 |       | 84.6     | 174.0          |                |                 |



| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1000 mm | ISO 9906 Grade 2 |

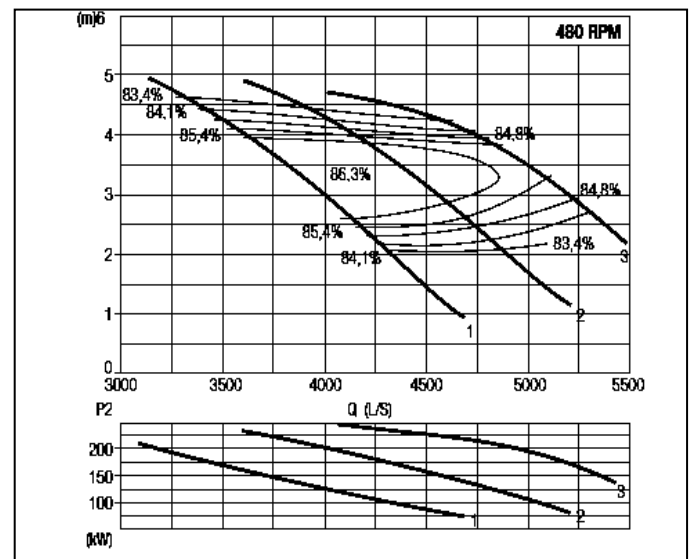
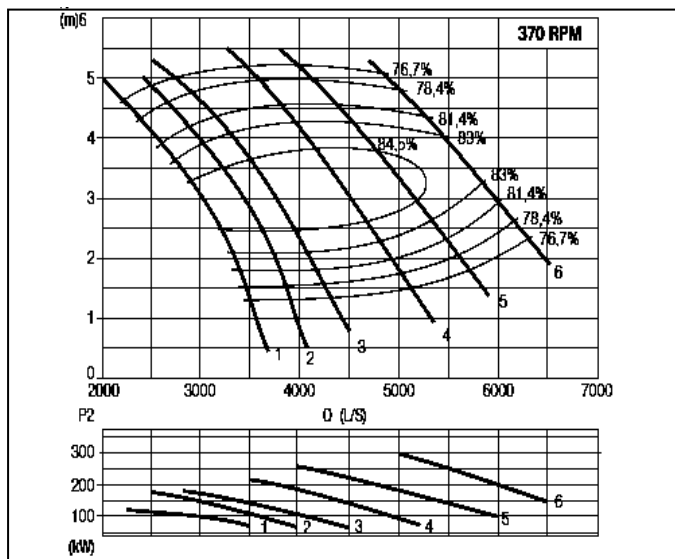
| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1100 mm | ISO 9906 Grade 2 |

## AVS I 100-I200-II Selection Chart 370 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |     |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|-----|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |     |
| 1              | 8820  | 2450 | 4.20 | 370   | 79.9     | 126.3          | 155            | 1100            |     |
|                | 11160 | 3100 | 2.80 |       | 84.6     | 100.7          |                |                 |     |
|                | 12240 | 3400 | 1.66 |       | 79.9     | 69.3           |                |                 |     |
| 2              | 12240 | 3400 | 4.62 |       | 79.9     | 192.9          | 250            |                 |     |
|                | 13788 | 3830 | 2.80 |       | 84.6     | 124.4          |                |                 |     |
|                | 15300 | 4250 | 1.60 |       | 79.9     | 83.5           |                |                 |     |
| 3              | 13176 | 3660 | 4.80 |       | 79.9     | 215.7          |                |                 | 280 |
|                | 16200 | 4500 | 3.00 |       | 84.6     | 156.6          |                |                 |     |
|                | 18000 | 5000 | 1.85 |       | 79.9     | 113.6          |                |                 |     |
| 4              | 15228 | 4230 | 4.80 |       | 79.9     | 249.3          | 355            |                 |     |
|                | 18000 | 5000 | 3.30 |       | 84.6     | 191.4          |                |                 |     |
|                | 19800 | 5500 | 2.20 |       | 79.9     | 148.6          |                |                 |     |
| 5              | 18360 | 5100 | 4.66 |       | 79.9     | 291.8          | 355            |                 |     |
|                | 21096 | 5860 | 3.16 |       | 83.1     | 218.7          |                |                 |     |
|                | 22320 | 6200 | 2.48 |       | 78.4     | 192.4          |                |                 |     |

## AVS I 000-I200-II Selection Chart 480 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 12031 | 3342 | 4.59 | 490   | 83.4     | 180.4          | 200            | 1000            |
|                | 13968 | 3880 | 3.29 |       | 86.6     | 144.6          |                |                 |
|                | 15386 | 4274 | 2.11 |       | 83.4     | 106.1          |                |                 |
| 2              | 14440 | 4011 | 4.26 |       | 84.1     | 199.3          | 220            |                 |
|                | 16222 | 4506 | 3.17 |       | 86.6     | 161.8          |                |                 |
|                | 17323 | 4812 | 2.21 |       | 83.4     | 125.1          |                |                 |
| 3              | 16402 | 4556 | 4.21 |       | 83.4     | 225.6          | 250            |                 |
|                | 18112 | 5031 | 3.43 |       | 85.6     | 197.8          |                |                 |
|                | 19058 | 5294 | 2.63 |       | 84.1     | 162.4          |                |                 |



| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1100 mm | ISO 9906 Grade 2 |

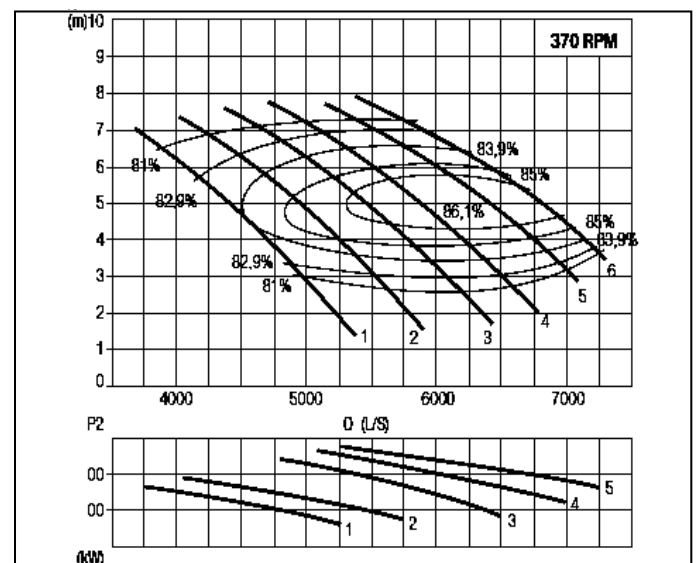
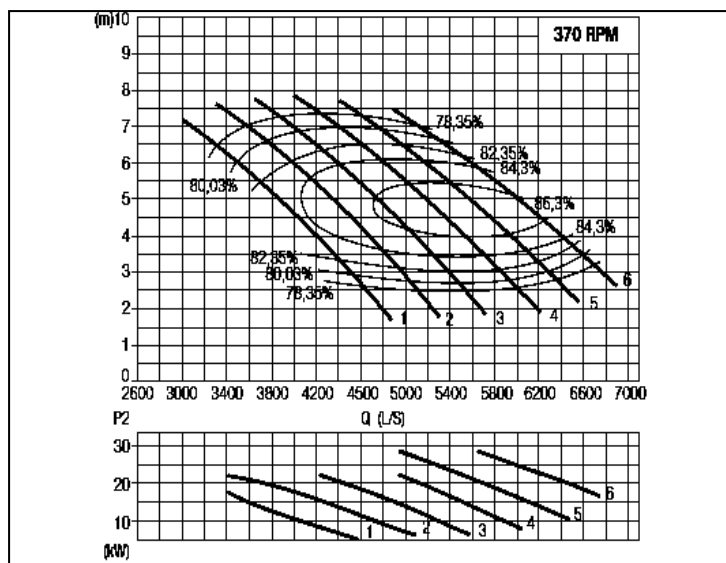
| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1000 mm | ISO 9906 Grade 2 |

**AVS I200-I400-I Selection Chart 370 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 12630 | 3510 | 6.04 | 370   | 80.3     | 259.0          | 280            | 1200            |
|                | 14688 | 4080 | 4.20 |       | 84.3     | 199.4          |                |                 |
|                | 16560 | 4600 | 2.60 |       | 78.3     | 149.8          |                |                 |
| 2              | 14976 | 4160 | 5.51 |       | 84.3     | 266.7          |                |                 |
|                | 16776 | 4660 | 4.04 |       | 85.3     | 216.5          |                |                 |
|                | 18180 | 5050 | 2.71 |       | 80.3     | 167.2          |                |                 |
| 3              | 15300 | 4250 | 6.34 |       | 82.3     | 321.2          | 355            |                 |
|                | 17064 | 4740 | 5.00 |       | 86.3     | 269.4          |                |                 |
|                | 19800 | 5500 | 2.64 |       | 80.3     | 177.4          |                |                 |
| 4              | 17714 | 4921 | 5.71 |       | 82.3     | 334.9          |                |                 |
|                | 19440 | 5400 | 4.40 |       | 86.3     | 270.1          |                |                 |
|                | 21600 | 6000 | 2.50 |       | 78.3     | 187.9          |                |                 |
| 5              | 17784 | 4940 | 6.56 |       | 82.3     | 386.3          | 400            |                 |
|                | 21384 | 5940 | 4.07 |       | 86.3     | 274.8          |                |                 |
|                | 22968 | 6380 | 2.77 |       | 78.3     | 221.4          |                |                 |
| 6              | 20340 | 5650 | 5.85 |       | 84.3     | 384.6          |                |                 |
|                | 22428 | 6230 | 4.41 |       | 86.3     | 312.3          |                |                 |
|                | 24192 | 6720 | 3.13 |       | 78.3     | 263.5          |                |                 |

**AVS I250-I400 Selection Chart 370 RPM**

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 14627 | 4063 | 5.85 | 370   | 82.5     | 282.6          | 315            | 1250            |
|                | 15889 | 4414 | 4.87 |       | 84.0     | 251.0          |                |                 |
|                | 17696 | 4916 | 3.23 |       | 81.8     | 190.4          |                |                 |
| 2              | 15746 | 4374 | 6.11 |       | 82.5     | 317.8          | 355            |                 |
|                | 17496 | 4860 | 4.75 |       | 85.3     | 265.5          |                |                 |
|                | 19302 | 5362 | 3.23 |       | 82.8     | 205.2          |                |                 |
| 3              | 17352 | 4820 | 6.17 |       | 84.0     | 347.3          | 400            |                 |
|                | 19216 | 5338 | 4.91 |       | 86.2     | 298.3          |                |                 |
|                | 21195 | 5888 | 3.23 |       | 83.2     | 224.2          |                |                 |
| 4              | 18671 | 5186 | 6.46 |       | 84.3     | 389.9          | 450            |                 |
|                | 20880 | 5800 | 5.06 |       | 86.3     | 333.6          |                |                 |
|                | 23031 | 6397 | 3.36 |       | 83.2     | 253.5          |                |                 |
| 5              | 19962 | 5545 | 6.59 |       | 83.7     | 428.3          | 500            |                 |
|                | 22257 | 6183 | 5.34 |       | 86.8     | 373.1          |                |                 |
|                | 24551 | 6820 | 3.07 |       | 80.5     | 255.1          |                |                 |
| 6              | 21367 | 5935 | 6.59 |       | 83.0     | 426.3          | 530            |                 |
|                | 23748 | 6597 | 5.19 |       | 86.3     | 389.2          |                |                 |
|                | 26043 | 7234 | 3.66 |       | 82.5     | 314.8          |                |                 |

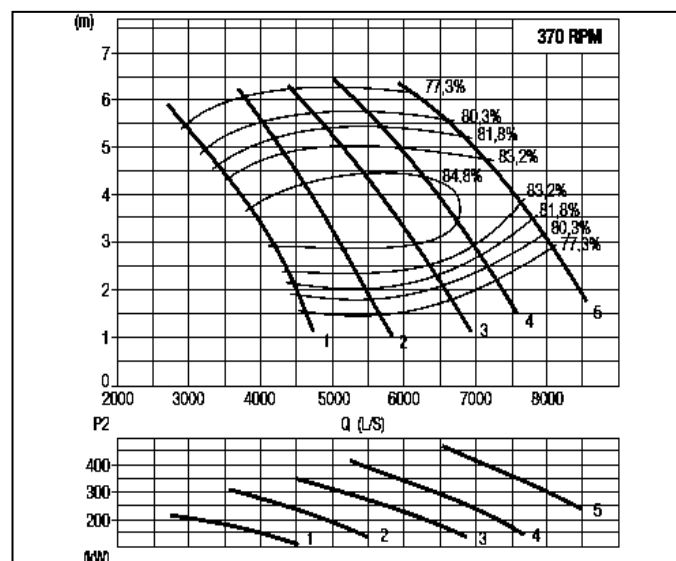


| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1200 mm | ISO 9906 Grade 2 |

| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1250 mm | ISO 9906 Grade 2 |

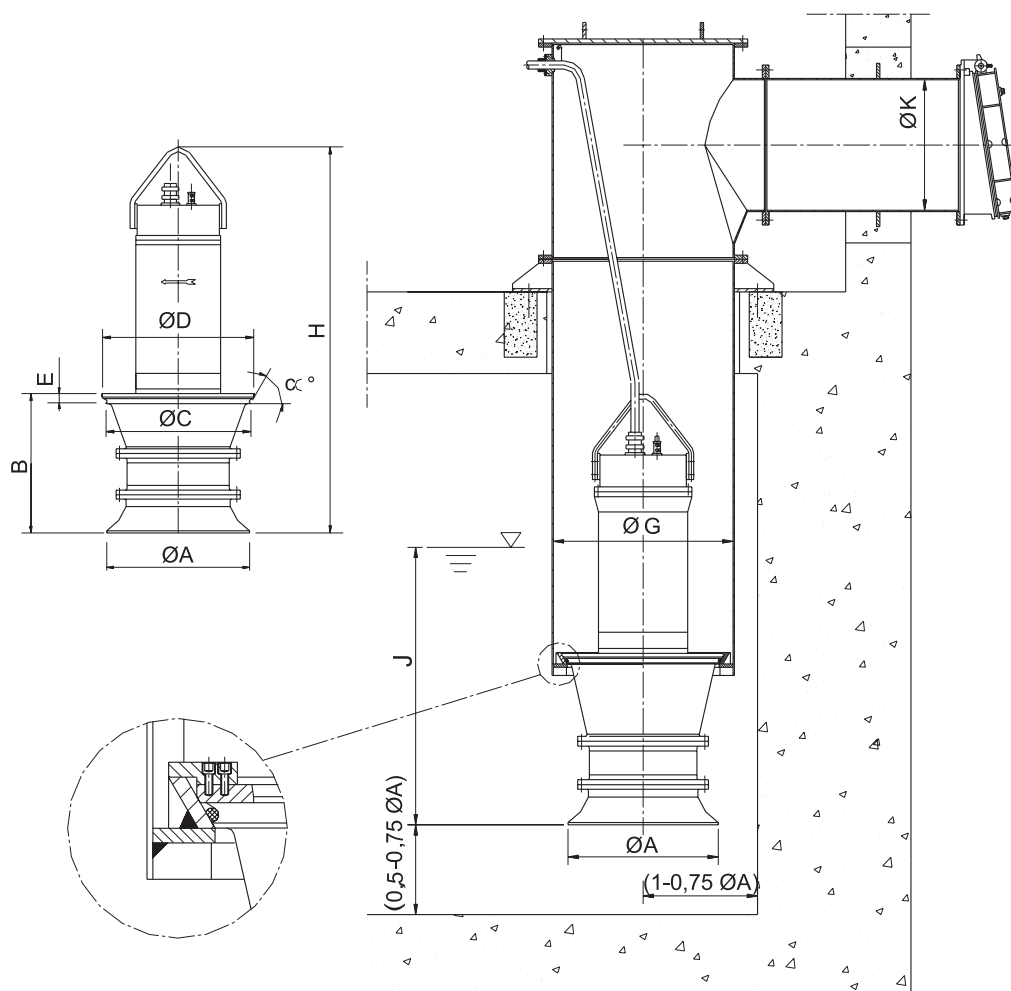
# AVS I200-I400-II Selection Chart 370 RPM

| Impeller<br>Nr | Flow  |      | Head | Speed | Eff<br>% | Power (kW)     |                | Impeller<br>Dia |
|----------------|-------|------|------|-------|----------|----------------|----------------|-----------------|
|                | m3/h  | l/s  | m    | Rpm   |          | Shaft<br>Power | Motor<br>Power |                 |
| 1              | 11448 | 3180 | 5.00 | 370   | 80.3     | 194.3          | 315            | 1200            |
|                | 14400 | 4000 | 3.40 |       | 84.5     | 157.9          |                |                 |
|                | 16200 | 4500 | 1.90 |       | 80.3     | 104.5          |                |                 |
| 2              | 14400 | 4000 | 5.60 |       | 80.3     | 273.7          |                |                 |
|                | 18000 | 5000 | 3.20 |       | 84.8     | 185.1          |                |                 |
|                | 19800 | 5500 | 1.90 |       | 80.3     | 127.7          |                |                 |
| 3              | 17100 | 4750 | 5.70 |       | 80.3     | 330.8          | 400            |                 |
|                | 20520 | 5700 | 3.90 |       | 84.8     | 257.2          |                |                 |
|                | 23400 | 6500 | 2.20 |       | 80.3     | 174.7          |                |                 |
| 4              | 19800 | 5500 | 5.70 |       | 80.3     | 383.0          | 500            |                 |
|                | 23400 | 6500 | 3.90 |       | 84.8     | 293.3          |                |                 |
|                | 25776 | 7160 | 2.50 |       | 80.3     | 218.7          |                |                 |
| 5              | 24732 | 6870 | 5.15 |       | 81.8     | 424.3          |                |                 |
|                | 27000 | 7500 | 4.05 |       | 83.7     | 356.0          |                |                 |
|                | 28440 | 7900 | 3.20 |       | 80.3     | 308.8          |                |                 |



| No. of vanes | Impeller  | Tolerance        |
|--------------|-----------|------------------|
| 3            | Ø 1200 mm | ISO 9906 Grade 2 |

## DIMENSIONS



| TYPE             | Ø A  | B    | Ø D  | E   | A  | Ø G  | H    | J    | K    | KG   |
|------------------|------|------|------|-----|----|------|------|------|------|------|
| AVS 300-350-I    | 420  | 457  | 520  | 43  | 75 | 600  | 1635 | 800  | 400  | 500  |
| AVS 300-350-II   | 420  | 457  | 520  | 43  | 75 | 600  | 1635 | 800  | 400  | 500  |
| AVS 300-350-III  | 420  | 457  | 520  | 43  | 75 | 600  | 1635 | 800  | 400  | 500  |
| AVS 450-500      | 620  | 645  | 710  | 80  | 60 | 800  | 2048 | 1000 | 600  | 1100 |
| AVS 450-500-I    | 700  | 615  | 770  | 46  | 60 | 850  | 1920 | 1000 | 600  | 1100 |
| AVS 450-500-II   | 620  | 645  | 710  | 80  | 60 | 800  | 1997 | 1000 | 600  | 1100 |
| AVS 450-500-III  | 700  | 615  | 770  | 46  | 60 | 850  | 1912 | 1000 | 600  | 1100 |
| AVS 450-500-IV   | 700  | 615  | 770  | 46  | 60 | 850  | 3637 | 1000 | 600  | 1100 |
| AVS 550-600-I    | 700  | 772  | 770  | 55  | 60 | 850  | 2069 | 1000 | 600  | 1100 |
| AVS 550-600-II   | 700  | 772  | 770  | 55  | 60 | 850  | 2062 | 1000 | 600  | 1100 |
| AVS 600-700      | 920  | 942  | 980  | 65  | 60 | 1100 | 2649 | 1700 | 800  | 2500 |
| AVS 600-700-I    | 920  | 942  | 980  | 65  | 60 | 1100 | 2649 | 1700 | 800  | 2500 |
| AVS 650-700-I    | 920  | 898  | 980  | 65  | 60 | 1100 | 2570 | 1700 | 800  | 2500 |
| AVS 650-700-II   | 920  | 898  | 980  | 65  | 60 | 1100 | 2570 | 1700 | 800  | 2500 |
| AVS 650-700-III  | 920  | 898  | 980  | 65  | 60 | 1100 | 2489 | 1700 | 800  | 2500 |
| AVS 650-700-IV   | 920  | 898  | 980  | 65  | 60 | 1100 | 2489 | 1700 | 800  | 2500 |
| AVS 650-700-V    | 920  | 898  | 980  | 65  | 60 | 1100 | 2589 | 1700 | 800  | 2500 |
| AVS 650-700      | 920  | 898  | 980  | 65  | 60 | 1100 | 2589 | 1700 | 800  | 2500 |
| AVS 650-700-A    | 920  | 998  | 980  | 65  | 60 | 1100 | 2589 | 1700 | 800  | 2500 |
| AVS 850-900-I    | 1080 | 1256 | 1200 | 69  | 60 | 1380 | 3704 | 1250 | 1200 | 4500 |
| AVS 850-900-II   | 1200 | 1260 | 1270 | 62  | 60 | 1380 | 3637 | 1250 | 1200 | 4500 |
| AVS 850-900      | 1200 | 1260 | 1270 | 62  | 60 | 1380 | 3637 | 1250 | 1200 | 4500 |
| AVS 850-900-III  | 1200 | 1276 | 1360 | 165 | 60 | 1380 | 3660 | 2300 | 1200 | 5100 |
| AVS 850-900-IV   | 1200 | 1276 | 1360 | 165 | 60 | 1380 | 3660 | 2300 | 1200 | 5100 |
| AVS 850-900-V    | 1200 | 1276 | 1360 | 165 | 60 | 1400 | 3660 | 2500 | 1200 | 5100 |
| AVS 850-900-A    | 1200 | 1276 | 1360 | 165 | 60 | 1400 | 3660 | 2500 | 1200 | 5100 |
| AVS 1000-1200-I  | 1200 | 1364 | 1580 | 51  | 60 | 1600 | 3749 | 2500 | 1400 | 6000 |
| AVS 1100-1200-I  | 1200 | 1364 | 1580 | 51  | 60 | 1600 | 3749 | 2500 | 1400 | 6000 |
| AVS 1000-1200-II | 1420 | 1304 | 1580 | 52  | 60 | 1600 | 3671 | 2500 | 1400 | 6000 |
| AVS 1200-1400-I  | 1360 | 1780 | 1700 | 390 | 60 | 1800 | 3491 | 3360 | 1800 | 8600 |
| AVS 1250-1400    | 1360 | 1780 | 1700 | 390 | 60 | 1800 | 3491 | 3360 | 1800 | 8600 |
| AVS 1200-1400-II | 1830 | 1780 | 1990 | 390 | 60 | 2000 | 4000 | 3360 | 1800 | 8600 |

## ELECTRICAL DATA

| POWER |     | RPM  | VOLTAGE | CURRENT | NO LOAD CURR. | EFF.  | COS φ  | Tmax/tn | Ts/tn  | Is/In  |
|-------|-----|------|---------|---------|---------------|-------|--------|---------|--------|--------|
| KW    | HP  |      |         |         |               |       |        |         |        |        |
| 7,5   | 10  | 980  | 380     | 16,99   | 8,16          | 87,79 | 0,7831 | 2,373   | 2,3811 | 5,7489 |
| 11    | 15  | 980  | 380     | 24,63   | 11,26         | 88,88 | 0,7891 | 2,3152  | 2,4717 | 5,8667 |
| 15    | 20  | 980  | 380     | 33,2    | 15,42         | 89,08 | 0,7862 | 2,3044  | 2,257  | 5,5044 |
|       |     |      |         |         |               |       |        |         |        |        |
| 18,5  | 25  | 1450 | 380     | 36,3    | 14,5          | 89,98 | 0,8662 | 3,3377  | 2,3641 | 6,8297 |
| 22    | 30  | 1450 | 380     | 43,1    | 16,1          | 90,5  | 0,8723 | 3,2807  | 2,3702 | 6,7828 |
| 30    | 40  | 1450 | 380     | 58,7    | 22,4          | 91,16 | 0,8696 | 3,3994  | 2,3822 | 6,7598 |
| 37    | 50  | 1450 | 380     | 71,8    | 25,9          | 91,41 | 0,8775 | 3,3263  | 2,3291 | 6,6685 |
|       |     |      |         |         |               |       |        |         |        |        |
| 30    | 40  | 980  | 380     | 60,3    | 21,2          | 91,65 | 0,8495 | 2,3649  | 2,3735 | 6,3048 |
| 37    | 50  | 980  | 380     | 74      | 24,6          | 91,4  | 0,8541 | 2,2826  | 2,3623 | 6,3048 |
| 45    | 60  | 980  | 380     | 89,9    | 32,7          | 92,26 | 0,8445 | 2,4267  | 2,1745 | 6,3048 |
| 55    | 75  | 980  | 380     | 109,3   | 39            | 92,44 | 0,8463 | 2,3854  | 2,1953 | 6,3048 |
| 75    | 100 | 980  | 380     | 148,8   | 53,6          | 92,67 | 0,8435 | 2,337   | 2,3261 | 6,3048 |
|       |     |      |         |         |               |       |        |         |        |        |
| 30    | 40  | 730  | 380     | 64,9    | 30,2          | 91,47 | 0,7878 | -       | 2,3458 | 5,3596 |
| 37    | 50  | 730  | 380     | 80,7    | 38,7          | 91,86 | 0,78   | 2,5488  | 2,2945 | 5,304  |
| 45    | 60  | 730  | 380     | 97,6    | 48,3          | 92,13 | 0,7714 | 2,7009  | 2,5126 | 5,6202 |
|       |     |      |         |         |               |       |        |         |        |        |
| 90    | 125 | 980  | 380     | 170,1   | 46,5          | 92,89 | 0,8855 | 2,3137  | 2,2614 | 6,0823 |
| 110   | 150 | 980  | 380     | 207     | 61,6          | 93,25 | 0,8807 | 2,4679  | 2,6123 | 6,6517 |
| 132   | 180 | 980  | 380     | 247,9   | 71,1          | 93,49 | 0,8837 | 2,4415  | 2,6266 | 6,6513 |
|       |     |      |         |         |               |       |        |         |        |        |
| 90    | 125 | 730  | 380     | 179,3   | 63,1          | 93,55 | 0,8415 | 2,2893  | 1,4795 | 4,9113 |
| 110   | 150 | 730  | 380     | 221,8   | 84,7          | 93,52 | 0,8295 | 2,3764  | 1,5378 | 4,9012 |
| 132   | 180 | 730  | 380     | 265,9   | 93            | 93,6  | 0,8379 | 2,194   | 1,4268 | 4,5867 |
| 160   | 220 | 730  | 380     | 332     | 125,4         | 93,84 | 0,8244 | 2,3383  | 1,5265 | 4,7228 |
| 180   | 250 | 730  | 380     | 371,1   | 149           | 94,01 | 0,8213 | 2,3996  | 1,6118 | 4,8807 |
|       |     |      |         |         |               |       |        |         |        |        |
| 75    | 100 | 590  | 380     | 163     | 82,9          | 93,28 | 0,7729 | 3,0702  | 1,6607 | 5,999  |
| 90    | 125 | 590  | 380     | 195,1   | 97,8          | 93,57 | 0,7759 | 3,0911  | 1,6927 | 6,0874 |
| 110   | 150 | 590  | 380     | 237,7   | 116,1         | 93,58 | 0,7755 | 2,8788  | 1,4002 | 5,1949 |
| 132   | 180 | 590  | 380     | 280,7   | 140           | 93,66 | 0,7766 | 2,8031  | 1,4078 | 5,1314 |
| 160   | 220 | 590  | 380     | 339,5   | 146,8         | 93,71 | 0,7994 | 2,4401  | 1,2173 | 4,5952 |
|       |     |      |         |         |               |       |        |         |        |        |
| 160   | 220 | 590  | 380     | 327,4   | 138,2         | 93,37 | 0,8104 | 2,2953  | 1,6174 | 5,0241 |
| 185   | 250 | 590  | 380     | 377,8   | 159,6         | 93,76 | 0,8085 | 2,2933  | 1,617  | 5,0135 |
| 200   | 270 | 590  | 380     | 407,6   | 174,7         | 94,07 | 0,8082 | 2,3937  | 1,6931 | 5,2311 |
| 220   | 300 | 590  | 380     | 448,3   | 174,9         | 93,92 | 0,8179 | 2,1692  | 1,5316 | 4,7975 |
| 250   | 340 | 590  | 380     | 507,8   | 219,5         | 94,14 | 0,8064 | 2,3967  | 1,8083 | 5,3428 |
| 280   | 380 | 590  | 380     | 564,7   | 227,2         | 93,74 | 0,8198 | 2,3161  | 1,3641 | 4,7747 |
| 315   | 430 | 590  | 380     | 635,3   | 250,7         | 93,87 | 0,821  | 2,2752  | 1,3503 | 4,7085 |
|       |     |      |         |         |               |       |        |         |        |        |
| 132   | 180 | 490  | 380     | 290,7   | 141,4         | 92,79 | 0,7612 | 2,1771  | 1,4365 | 4,3537 |
| 160   | 220 | 490  | 380     | 346,6   | 153,7         | 92,79 | 0,7755 | 1,9601  | 1,2995 | 4,0001 |
| 185   | 250 | 490  | 380     | 399,8   | 176,9         | 92,9  | 0,7754 | 1,943   | 1,3357 | 4,0177 |
| 200   | 270 | 490  | 380     | 429,9   | 209,7         | 93,22 | 0,7616 | 2,1165  | 1,512  | 4,3601 |
| 220   | 300 | 490  | 380     | 472,9   | 219,9         | 93,36 | 0,7709 | 2,1346  | 1,167  | 3,9539 |
| 250   | 340 | 490  | 380     | 530,4   | 221,6         | 93,04 | 0,7846 | 1,8665  | 1,0167 | 3,5174 |
| 280   | 380 | 490  | 380     | 594,1   | 251,6         | 93,24 | 0,7825 | 1,8992  | 1,04   | 3,5784 |
| 315   | 430 | 490  | 380     | 668,3   | 307,9         | 93,46 | 0,7731 | 2,0673  | 1,1717 | 3,9232 |



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