

-  Sauberes Wasser
-  Gewerbliche Nutzung
-  Industrielle Nutzung
-  Landwirtschaftliche Nutzung



## LEISTUNGSBEREICH

- Förderstrom bis **5750 l/min** (345 m³/h)
- Höhe bis **98 m**

## ANWENDUNGEN UND INSTALLATIONEN

Norm EN733 Kreiselpumpen mit Halterung.

Sie werden für die Förderung von sauberem Wasser ohne abrasive Partikel und chemisch nicht aggressiven Flüssigkeiten für die Pumpenmaterialien empfohlen.

Verwendet für:

- **Wasserversorgung**
- **Druckerhöhung**
- **Bewässerung**
- **Systeme zur Brandbekämpfung**
- **Industrie**
- **Landwirtschaft**
- **Für gewerbliche, industrielle und landwirtschaftliche Anwendungen**
- **Für Klimaanlage, Kühlung, Heizung und Umwälzsysteme**

## EINSATZBEREICH

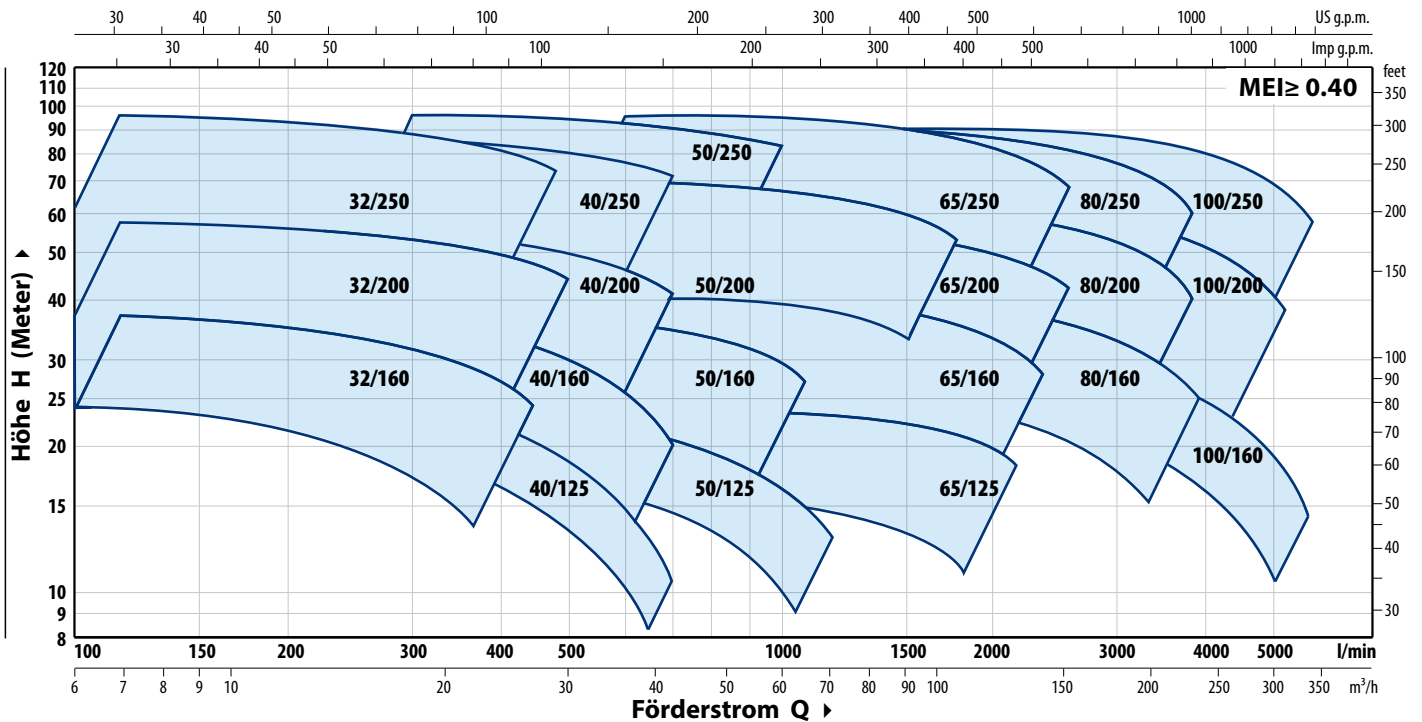
- Manometrische Saughöhe bis zu **7 m**
- Temperatur der zu fördernden Flüssigkeit **-10 °C** bis **+90 °C**
- Max. Druck im Pumpengehäuse **10 bar** (PN10)

## AUSFÜHRUNGEN AUF ANFRAGE

- ✗ Spezielle Gleitringdichtung
- ✗ Pumpen für Motoren mit 60 Hz Frequenz
- ✗ Für Flüssigkeiten mit höheren oder niedrigeren Temperaturen
- ✗ Für Umgebungen mit höheren oder niedrigeren Temperaturen
- ✗ KIT Gegenflansche einschließlich Schrauben, Muttern und Dichtungen



## LEISTUNGSBEREICH – n= 2900 min<sup>-1</sup>



## LEISTUNGSDATEN – n= 2900 min<sup>-1</sup>

| MODELL       | ZU KUPPELNDER MOTOR |      | LEISTUNGEN<br>n= 2900 min <sup>-1</sup> |           |
|--------------|---------------------|------|-----------------------------------------|-----------|
|              | kW                  | HP   | Q m³/h                                  | H m       |
| FG2-32/160C  | 1.5                 | 2    | 6 – 21                                  | 24 – 14   |
| FG2-32/160B  | 2.2                 | 3    | 6 – 24                                  | 30 – 17   |
| FG2-32/160A  | 3                   | 4    | 6 – 27                                  | 37 – 24   |
| FG2-32/200C  | 4                   | 5.5  | 6 – 27                                  | 44 – 31.5 |
| FG2-32/200B  | 5.5                 | 7.5  | 6 – 30                                  | 51 – 36   |
| FG2-32/200A  | 7.5                 | 10   | 6 – 30                                  | 57 – 44   |
| FG2-32/200BH | 3                   | 4    | 6 – 18                                  | 45 – 37   |
| FG2-32/200AH | 4                   | 5.5  | 6 – 19.2                                | 55 – 44   |
| FG2-32/250C  | 9.2                 | 12.5 | 6 – 27                                  | 75 – 60   |
| FG2-32/250B  | 11                  | 15   | 6 – 30                                  | 87 – 70   |
| FG2-32/250A  | 15                  | 20   | 6 – 30                                  | 97 – 80   |
| FG2-40/125C  | 1.1                 | 1.5  | 6 – 33                                  | 16 – 6    |
| FG2-40/125B  | 1.5                 | 2    | 6 – 36                                  | 20.5 – 9  |
| FG2-40/125A  | 2.2                 | 3    | 6 – 42                                  | 26 – 10   |
| FG2-40/160C  | 2.2                 | 3    | 6 – 36                                  | 27 – 14   |
| FG2-40/160B  | 3                   | 4    | 6 – 36                                  | 32 – 20   |
| FG2-40/160A  | 4                   | 5.5  | 6 – 42                                  | 38 – 20   |
| FG2-40/200B  | 5.5                 | 7.5  | 6 – 42                                  | 47 – 28   |
| FG2-40/200A  | 7.5                 | 10   | 6 – 42                                  | 55 – 41   |
| FG2-40/250C  | 9.2                 | 12.5 | 6 – 42                                  | 64 – 47   |
| FG2-40/250B  | 11                  | 15   | 6 – 42                                  | 71 – 55   |
| FG2-40/250A  | 15                  | 20   | 6 – 42                                  | 88 – 72   |
| FG2-50/125C  | 2.2                 | 3    | 18 – 72                                 | 17.5 – 6  |
| FG2-50/125B  | 3                   | 4    | 18 – 72                                 | 20.7 – 9  |
| FG2-50/125A  | 4                   | 5.5  | 18 – 72                                 | 23.5 – 13 |
| FG2-50/160C  | 4                   | 5.5  | 18 – 60                                 | 27 – 16   |
| FG2-50/160B  | 5.5                 | 7.5  | 18 – 72                                 | 32 – 18   |
| FG2-50/160A  | 7.5                 | 10   | 18 – 81                                 | 37 – 20   |
| FG2-50/200C  | 11                  | 15   | 24 – 102                                | 44 – 30   |
| FG2-50/200B  | 15                  | 20   | 24 – 102                                | 52 – 38   |
| FG2-50/200A  | 18.5                | 25   | 24 – 108                                | 61 – 45   |
| FG2-50/200AR | 22                  | 30   | 24 – 108                                | 69 – 53   |
| FG2-50/250D  | 9.2                 | 12.5 | 18 – 54                                 | 51 – 37   |
| FG2-50/250C  | 11                  | 15   | 18 – 60                                 | 59 – 43   |
| FG2-50/250B  | 15                  | 20   | 18 – 60                                 | 72 – 59   |
| FG2-50/250A  | 18.5                | 25   | 18 – 60                                 | 85 – 73   |
| FG2-50/250AR | 22                  | 30   | 18 – 60                                 | 95 – 83   |

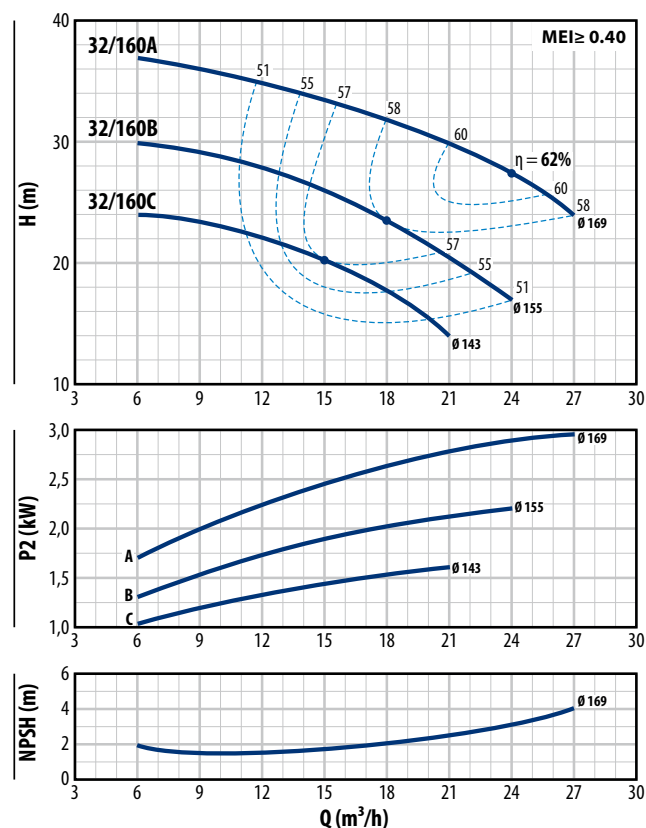
| MODELL       | ZU KUPPELNDER MOTOR |      | LEISTUNGEN<br>n= 2900 min <sup>-1</sup> |           |
|--------------|---------------------|------|-----------------------------------------|-----------|
|              | kW                  | HP   | Q m³/h                                  | H m       |
| FG2-65/125C  | 4                   | 5.5  | 36 – 108                                | 16 – 11   |
| FG2-65/125B  | 5.5                 | 7.5  | 36 – 120                                | 18 – 13   |
| FG2-65/125A  | 7.5                 | 10   | 36 – 132                                | 23 – 18   |
| FG2-65/160C  | 9.2                 | 12.5 | 36 – 132                                | 32 – 22   |
| FG2-65/160B  | 11                  | 15   | 36 – 144                                | 36.5 – 23 |
| FG2-65/160A  | 15                  | 20   | 36 – 144                                | 40.5 – 28 |
| FG2-65/200B  | 15                  | 20   | 12 – 144                                | 44 – 30.5 |
| FG2-65/200A  | 18.5                | 25   | 12 – 150                                | 50 – 36.5 |
| FG2-65/200AR | 22                  | 30   | 12 – 156                                | 57 – 42   |
| FG2-65/250C  | 30                  | 40   | 24 – 141                                | 76 – 53   |
| FG2-65/250B  | 37                  | 50   | 24 – 150                                | 87 – 62   |
| FG2-65/250A  | 45                  | 60   | 24 – 156                                | 95 – 68   |
| FG2-80/160D  | 11                  | 15   | 30 – 240                                | 25 – 10   |
| FG2-80/160C  | 15                  | 20   | 30 – 240                                | 30 – 15   |
| FG2-80/160B  | 18.5                | 25   | 30 – 240                                | 35 – 20   |
| FG2-80/160A  | 22                  | 30   | 30 – 240                                | 40 – 25   |
| FG2-80/200B  | 30                  | 40   | 30 – 219                                | 56 – 34.5 |
| FG2-80/200A  | 37                  | 50   | 30 – 234                                | 62 – 40   |
| FG2-80/250B  | 45                  | 60   | 36 – 216                                | 77 – 54   |
| FG2-80/250A  | 55                  | 75   | 36 – 234                                | 88.5 – 60 |
| FG2-100/160C | 15                  | 20   | 60 – 300                                | 30 – 12   |
| FG2-100/160B | 18.5                | 25   | 60 – 312                                | 34 – 14.5 |
| FG2-100/160A | 22                  | 30   | 60 – 330                                | 38 – 17.5 |
| FG2-100/200C | 30                  | 40   | 48 – 279                                | 51 – 28   |
| FG2-100/200B | 37                  | 50   | 48 – 294                                | 57 – 33   |
| FG2-100/200A | 45                  | 60   | 48 – 315                                | 63 – 38   |
| FG2-100/250B | 55                  | 75   | 48 – 309                                | 75 – 48   |
| FG2-100/250A | 75                  | 100  | 48 – 345                                | 89 – 58   |

Q = Förderstrom

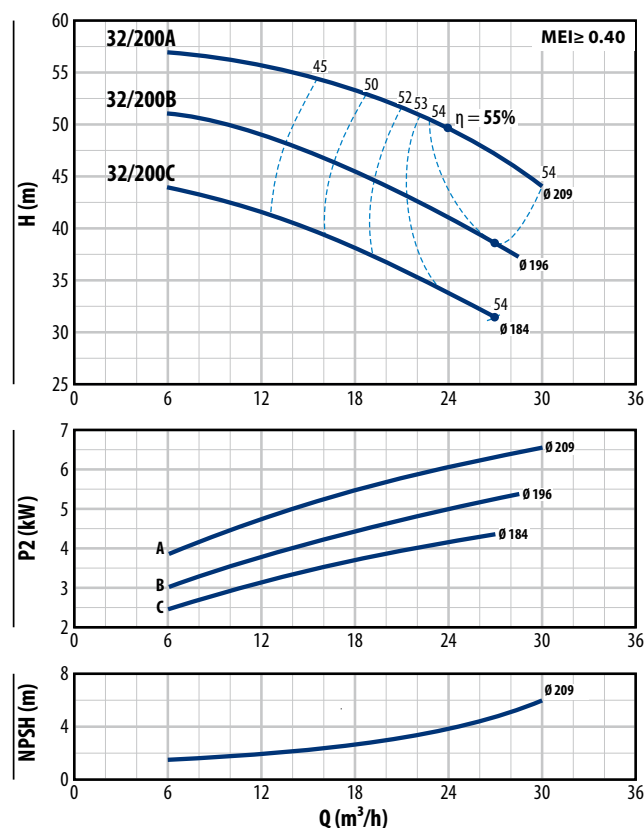
H = Gesamtdruckhöhe

Kennlinientoleranz gemäß EN ISO 9906 Grad 3B.

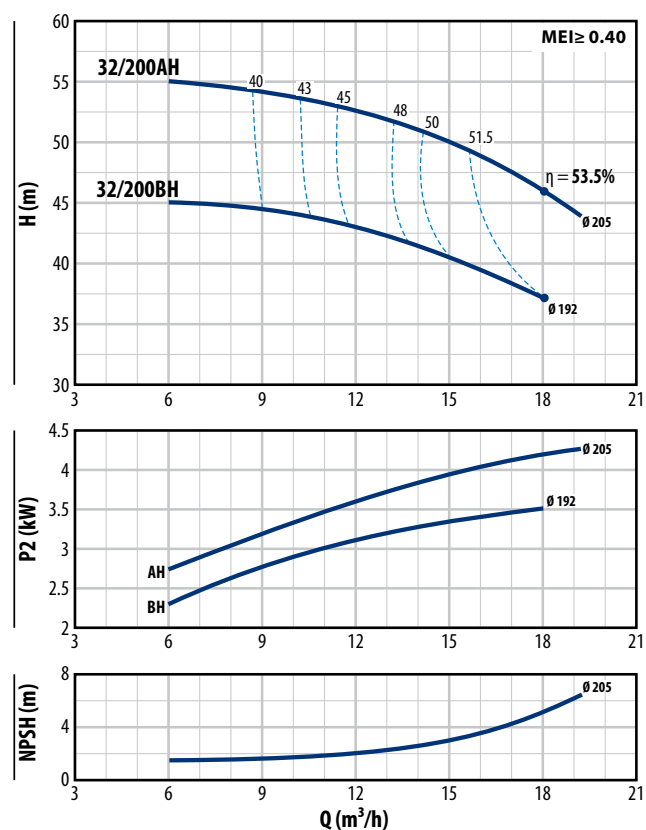
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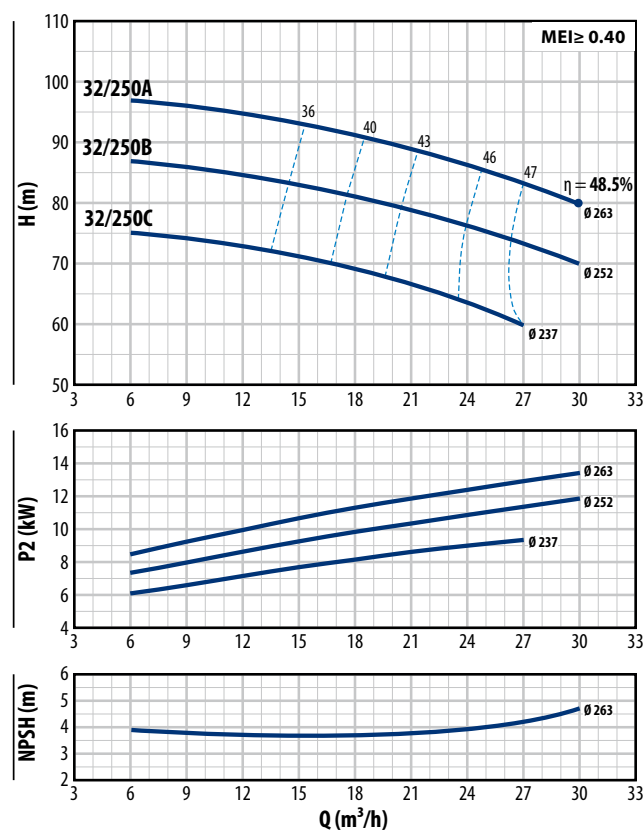
### FG2-32/200



### FG2-32/200H



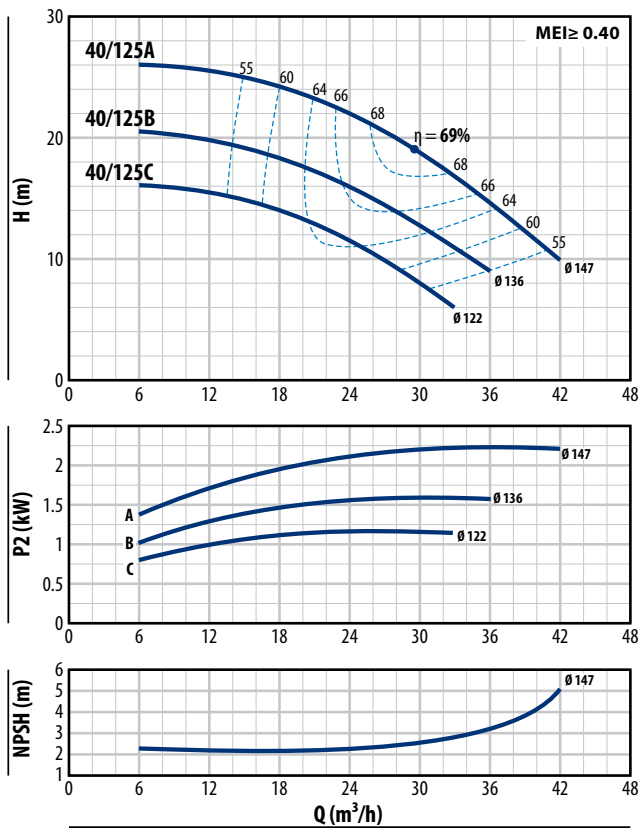
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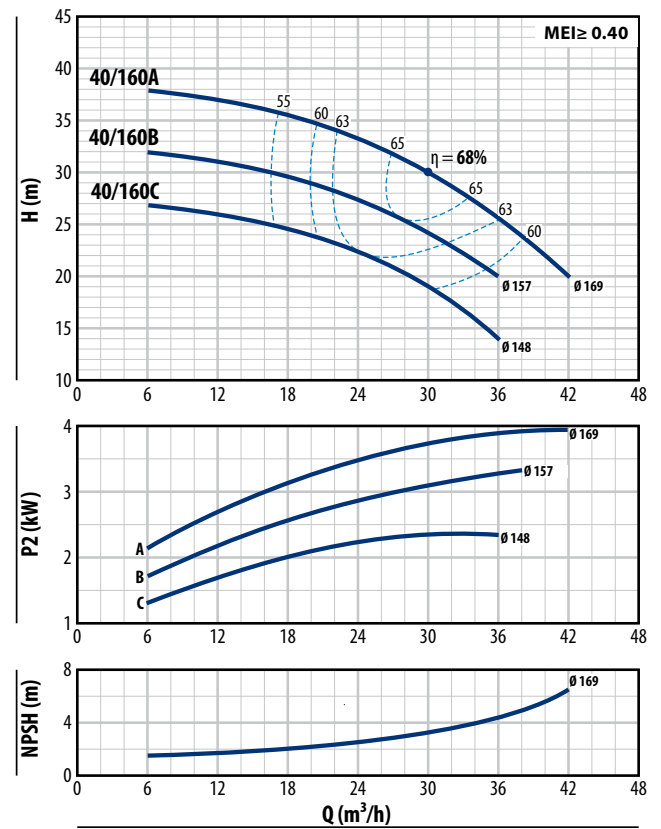
## CHARACTERISTIC CURVES

50 Hz

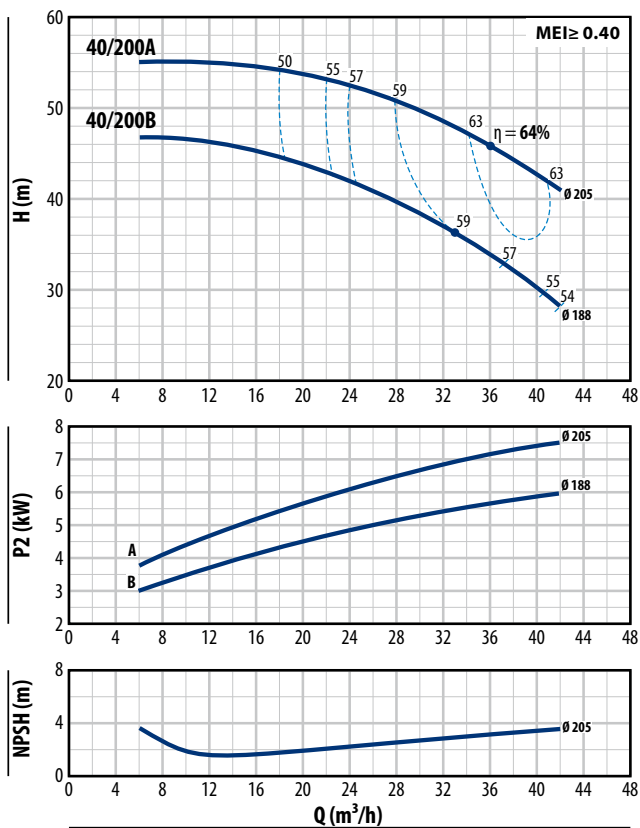
### FG2-40/125



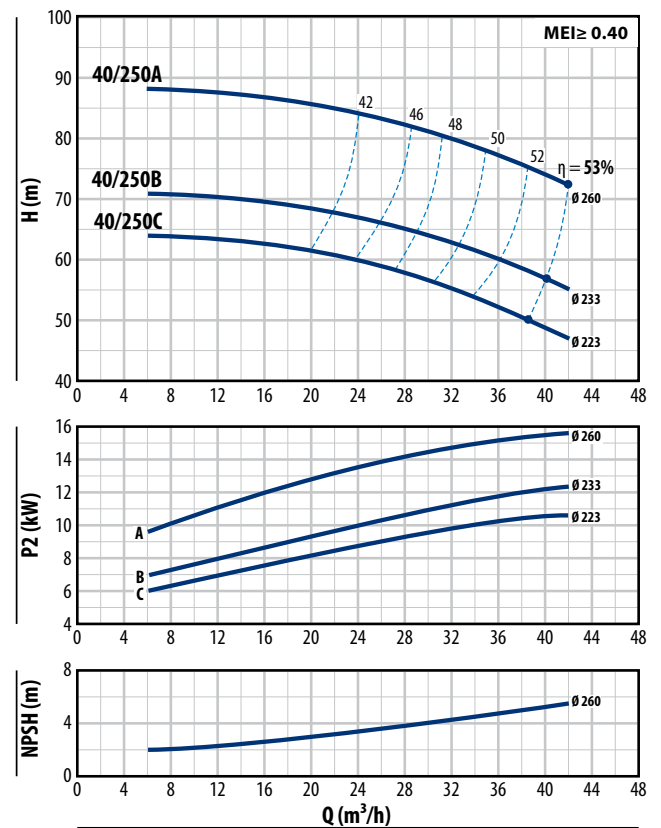
### FG2-40/160



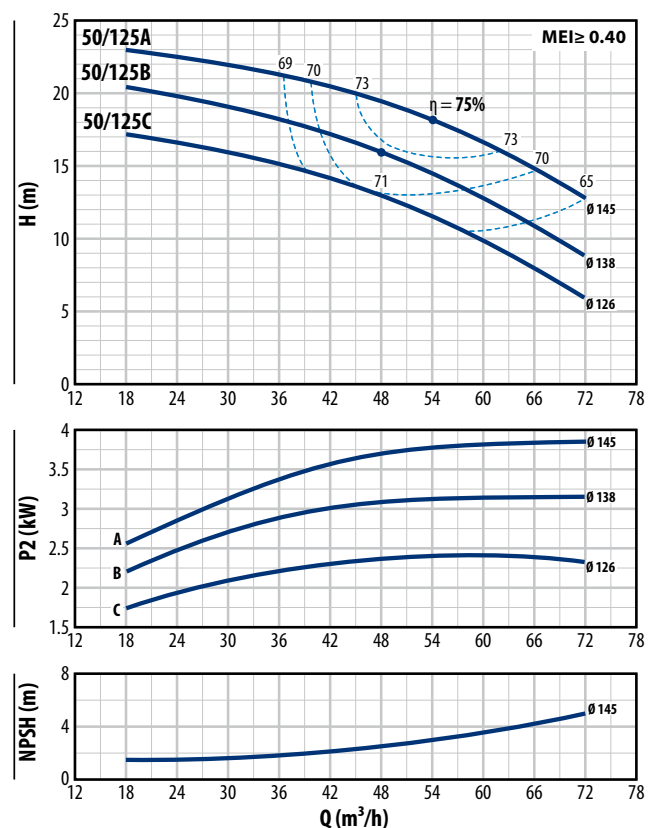
### FG2-40/200



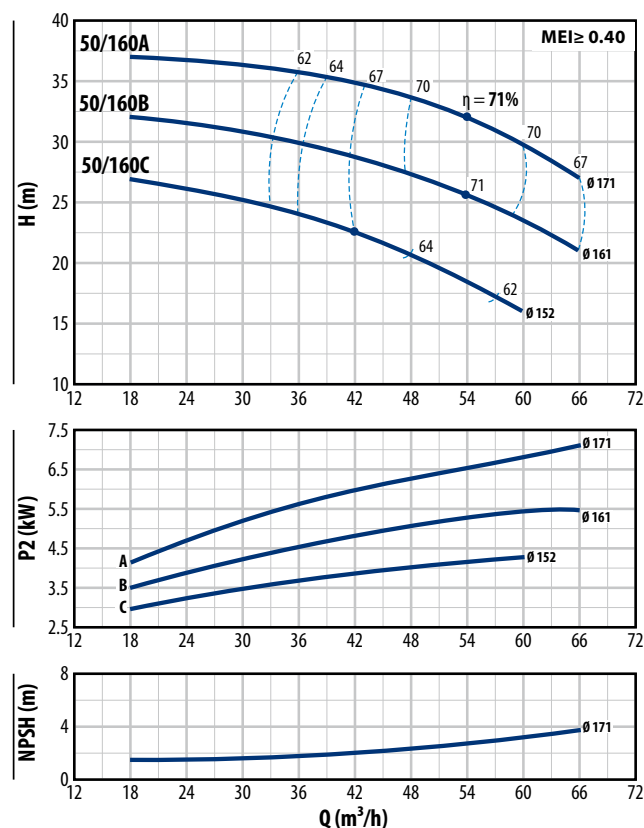
### FG2-40/250



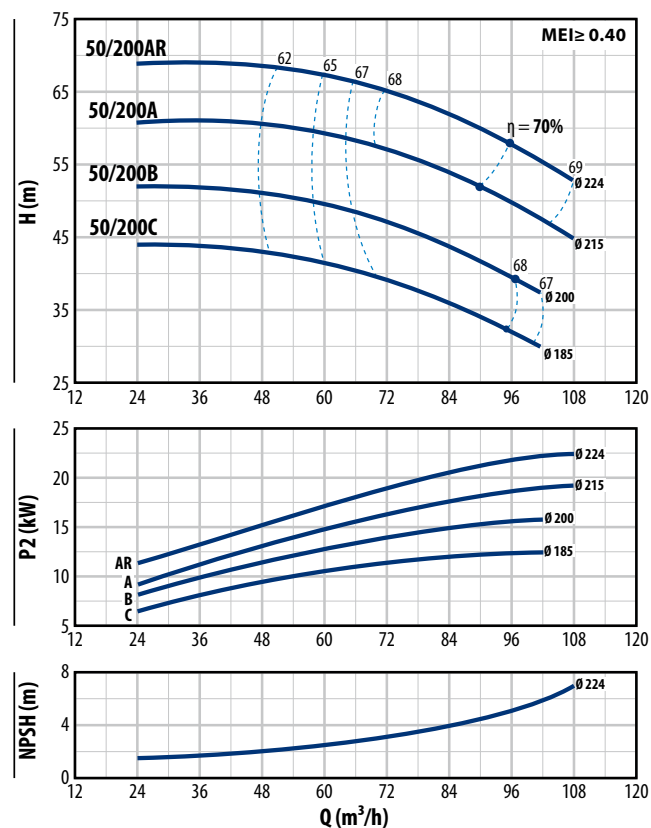
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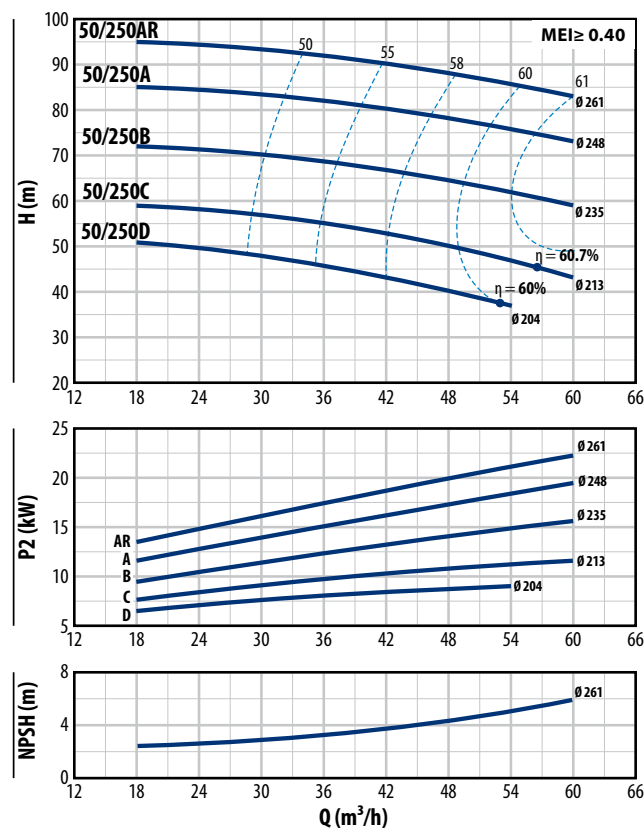
### FG2-50/160



### FG2-50/200



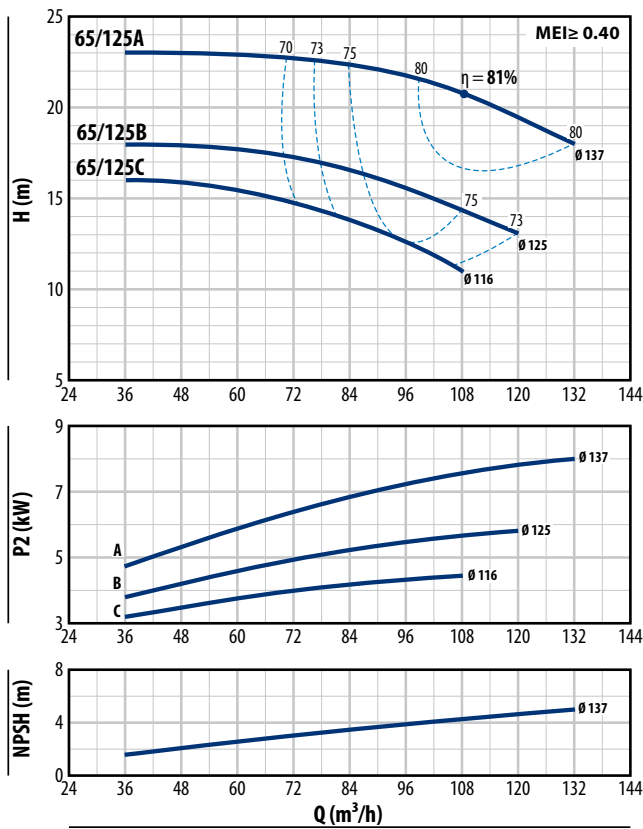
### FG2-50/250



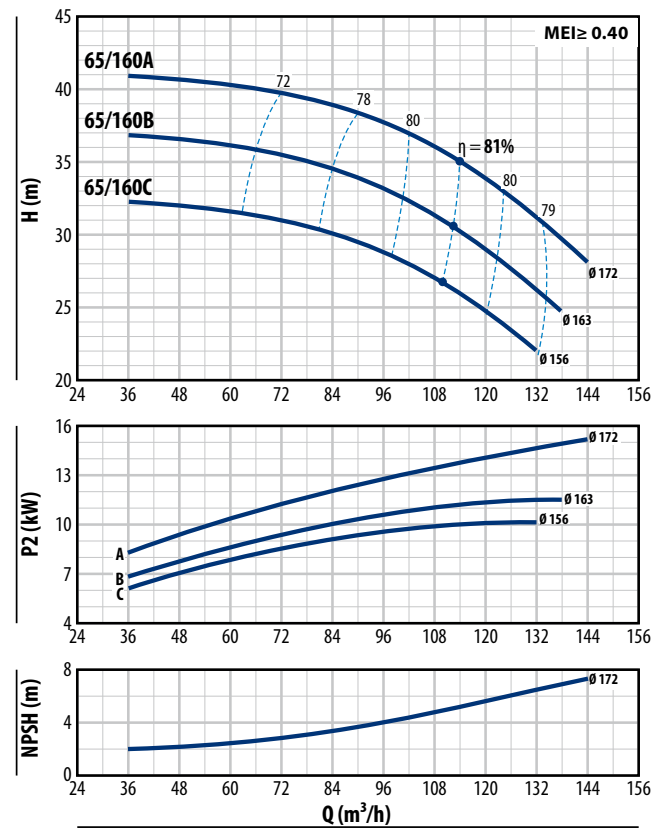
## CHARACTERISTIC CURVES

50 Hz

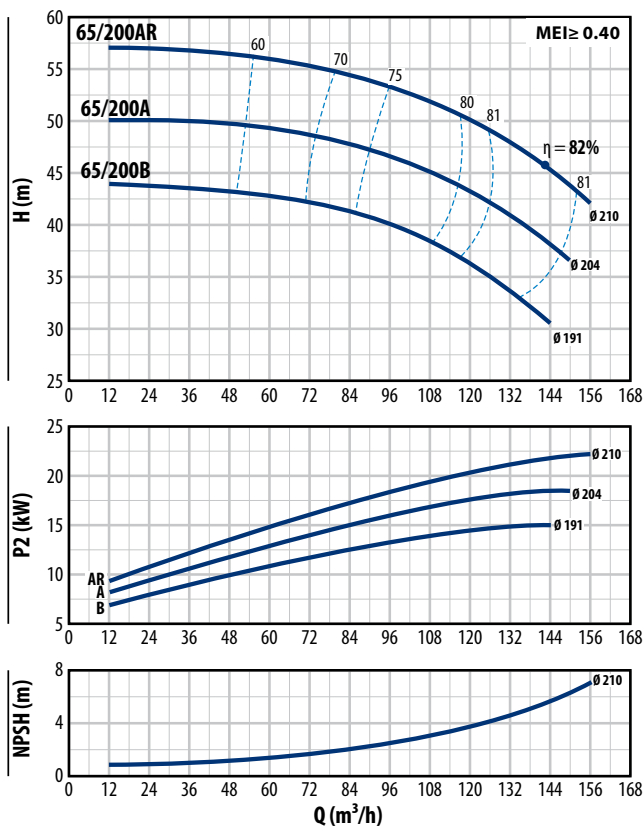
### FG2-65/125



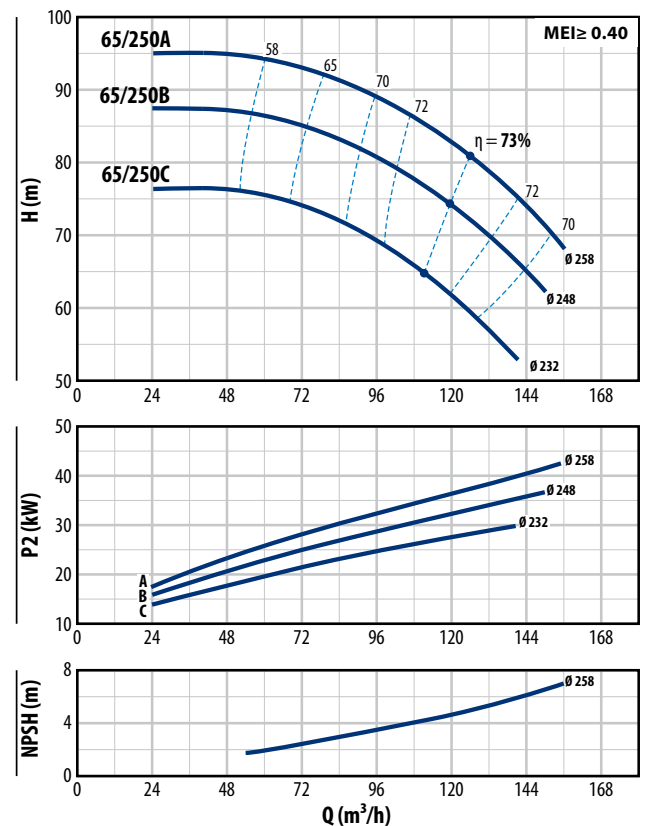
### FG2-65/160



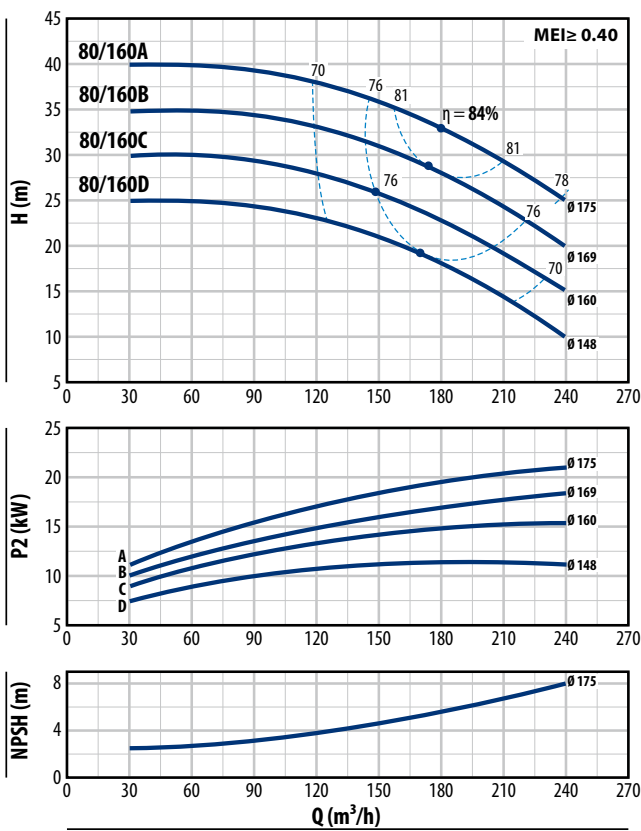
### FG2-65/200



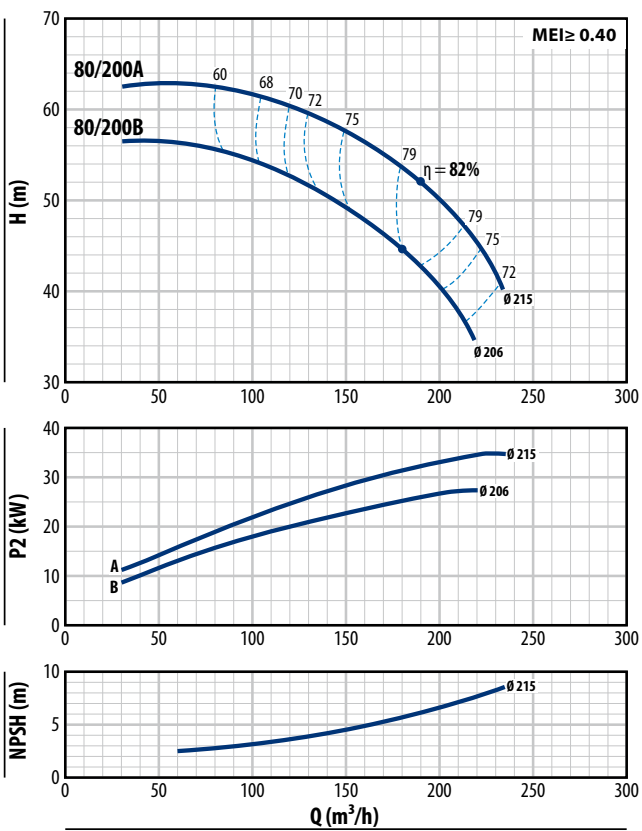
### FG2-65/250



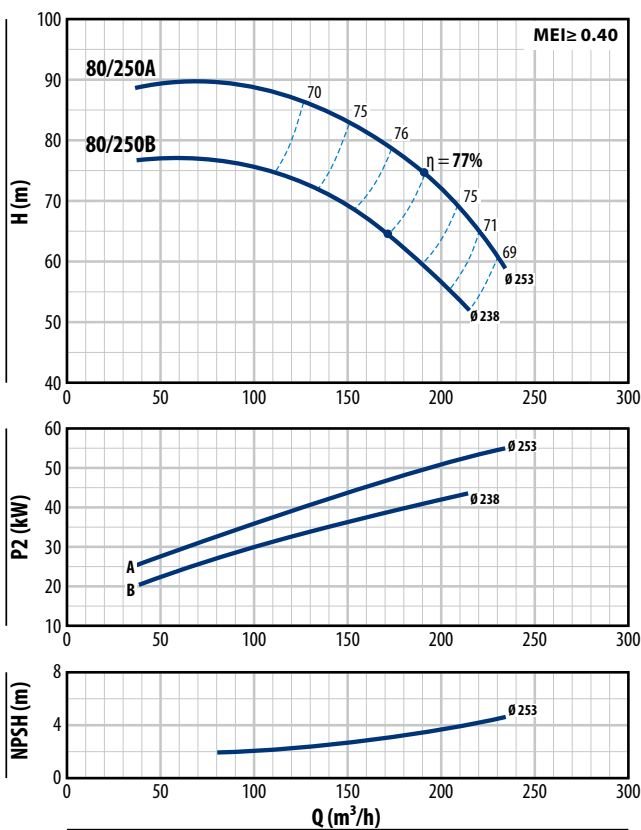
FG2-80/160



FG2-80/200



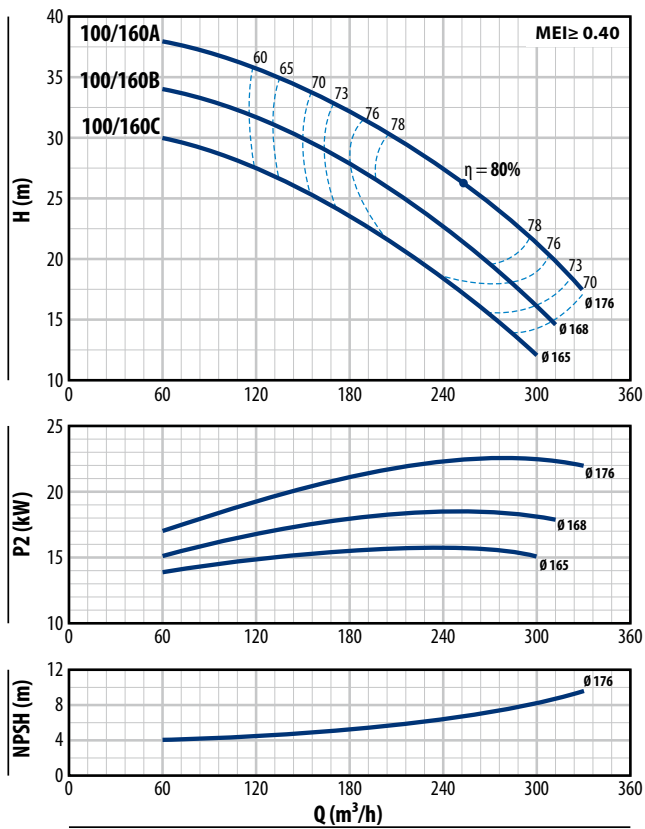
FG2-80/250



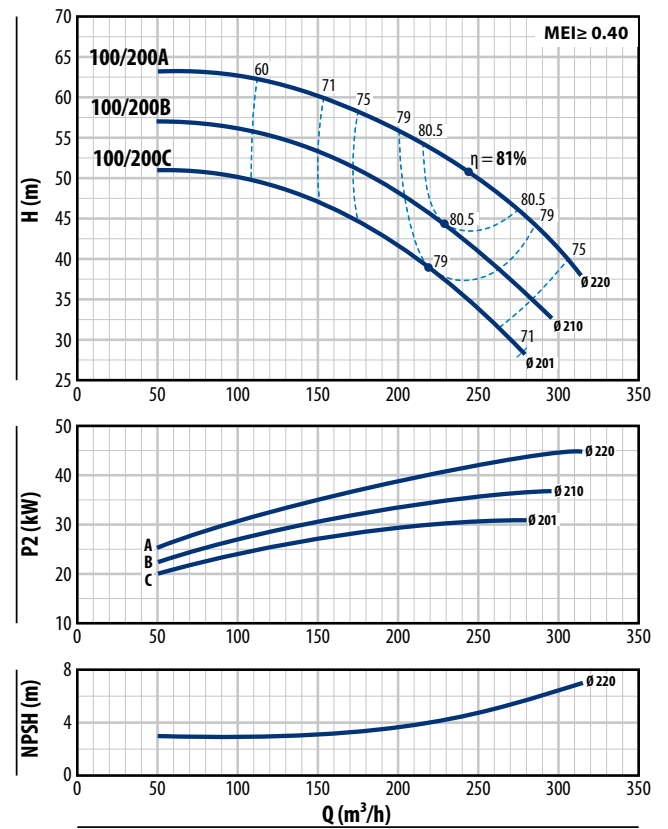
## CHARACTERISTIC CURVES

50 Hz

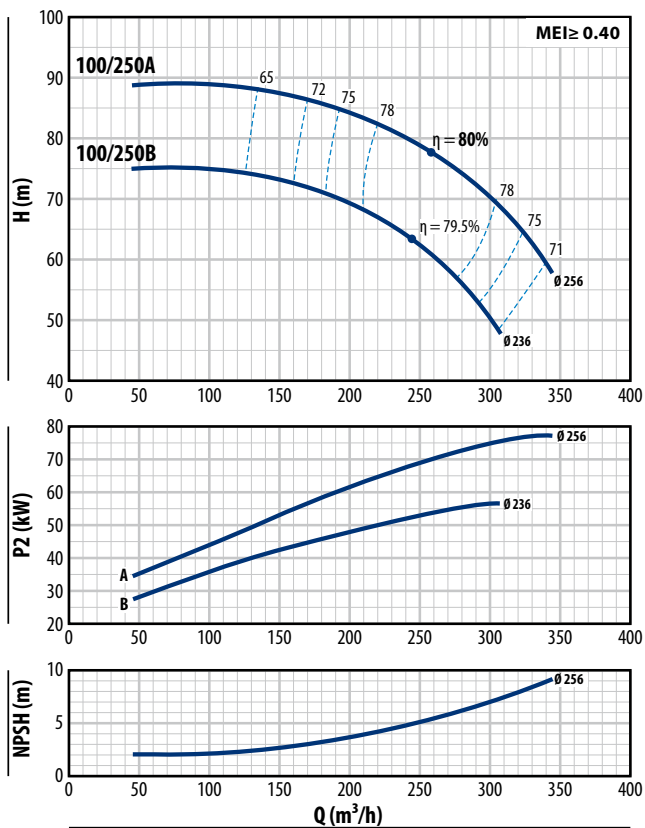
### FG2-100/160



### FG2-100/200

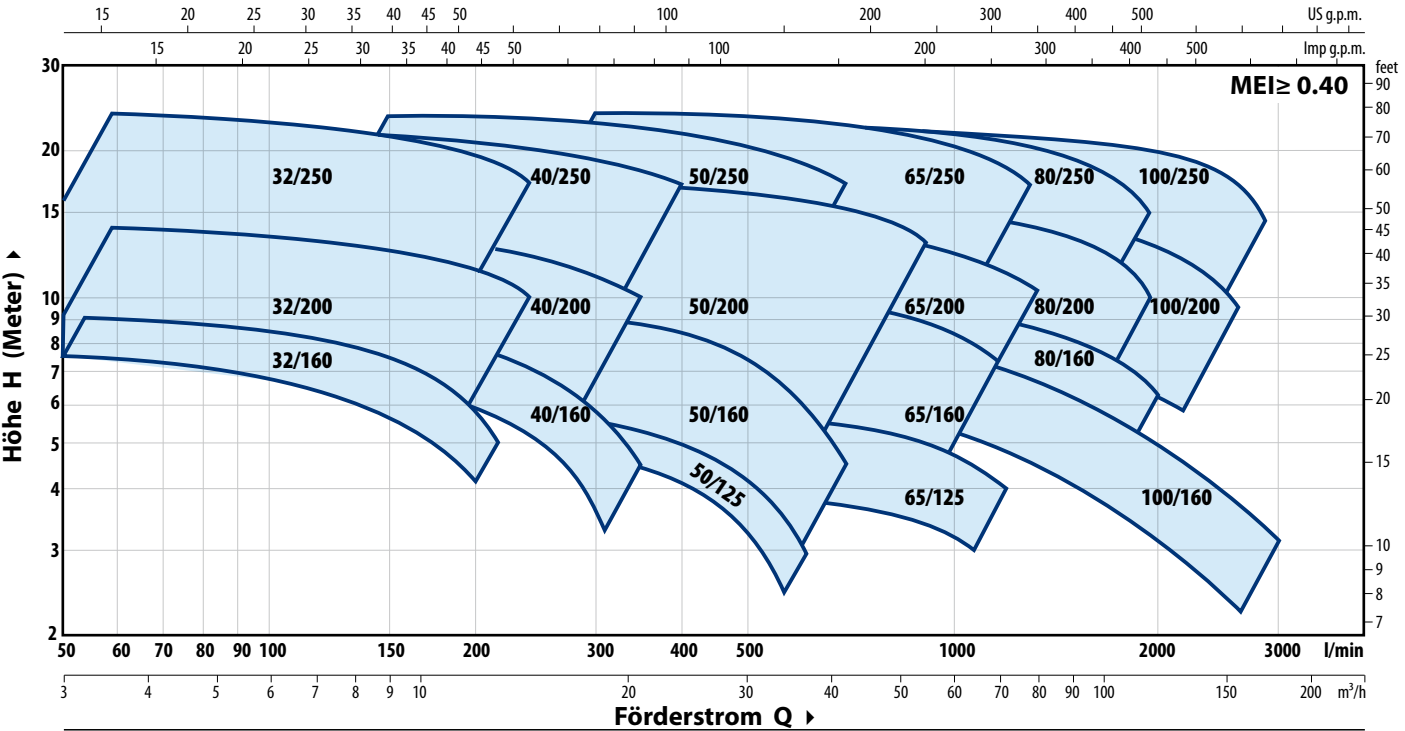


### FG2-100/250





LEISTUNGSBEREICH – n= 1450 min<sup>-1</sup>



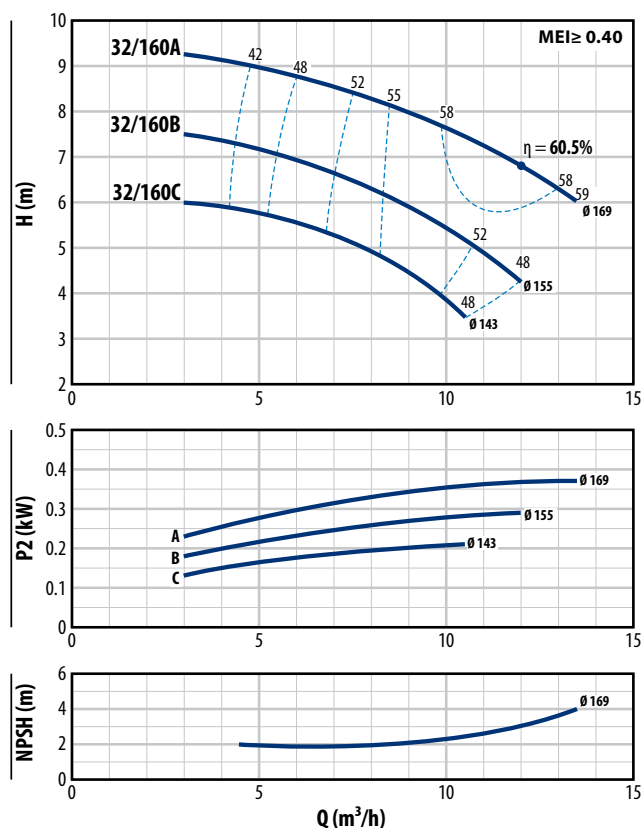
LEISTUNGSDATEN – n= 1450 min<sup>-1</sup>

| MODELL       | ZU KUPPELNDER MOTOR |      | LEISTUNGEN<br>n= 1450 min <sup>-1</sup> |             |
|--------------|---------------------|------|-----------------------------------------|-------------|
|              | kW                  | HP   | Q m³/h                                  | H m         |
| FG4-32/160C  | 0.25                | 0.33 | 3 – 10.5                                | 6 – 3.5     |
| FG4-32/160B  | 0.37                | 0.5  | 3 – 12                                  | 7.5 – 4     |
| FG4-32/160A  | 0.37                | 0.5  | 3 – 13.5                                | 9 – 6       |
| FG4-32/200C  | 0.55                | 0.75 | 3 – 13.5                                | 11 – 8      |
| FG4-32/200B  | 0.75                | 1    | 3 – 15                                  | 12.5 – 9    |
| FG4-32/200A  | 1.1                 | 1.5  | 3 – 15                                  | 14 – 11     |
| FG4-32/200BH | 0.55                | 0.75 | 3 – 9                                   | 11 – 9      |
| FG4-32/200AH | 0.55                | 0.75 | 3 – 9.6                                 | 13.8 – 11   |
| FG4-32/250C  | 1.1                 | 1.5  | 3 – 13.2                                | 18.4 – 15   |
| FG4-32/250B  | 1.5                 | 2    | 3 – 15                                  | 21.7 – 17.4 |
| FG4-32/250A  | 2.2                 | 3    | 3 – 16.2                                | 23.8 – 18.7 |
| FG4-40/160C  | 0.37                | 0.5  | 3 – 18                                  | 6.5 – 3.5   |
| FG4-40/160B  | 0.37                | 0.5  | 3 – 18                                  | 8 – 5       |
| FG4-40/160A  | 0.55                | 0.75 | 3 – 21                                  | 9.5 – 5     |
| FG4-40/200B  | 0.75                | 1    | 3 – 21                                  | 11.5 – 7    |
| FG4-40/200A  | 1.1                 | 1.5  | 3 – 21                                  | 13.5 – 10   |
| FG4-40/250C  | 1.1                 | 1.5  | 3 – 21                                  | 16 – 11.5   |
| FG4-40/250B  | 1.5                 | 2    | 3 – 21                                  | 17.5 – 13.5 |
| FG4-40/250A  | 2.2                 | 3    | 3 – 21                                  | 22 – 18     |
| FG4-50/125C  | 0.37                | 0.5  | 9 – 36                                  | 4.3 – 1.5   |
| FG4-50/125B  | 0.55                | 0.75 | 9 – 36                                  | 5.1 – 2.3   |
| FG4-50/125A  | 0.55                | 0.75 | 9 – 36                                  | 5.8 – 3.2   |
| FG4-50/160C  | 0.55                | 0.75 | 9 – 30                                  | 7 – 4       |
| FG4-50/160B  | 0.75                | 1    | 9 – 33                                  | 8 – 5       |
| FG4-50/160A  | 1.1                 | 1.5  | 9 – 33                                  | 9 – 7       |
| FG4-50/200C  | 1.5                 | 2    | 12 – 51                                 | 11 – 7.5    |
| FG4-50/200B  | 2.2                 | 3    | 12 – 51                                 | 13 – 9.5    |
| FG4-50/200A  | 2.2                 | 3    | 12 – 54                                 | 15 – 11     |
| FG4-50/200AR | 3                   | 4    | 12 – 54                                 | 17 – 13     |
| FG4-50/250D  | 1.1                 | 1.5  | 9 – 27                                  | 12.5 – 8    |
| FG4-50/250C  | 1.5                 | 2    | 9 – 27                                  | 14.5 – 10.5 |
| FG4-50/250B  | 2.2                 | 3    | 9 – 30                                  | 18 – 14.5   |
| FG4-50/250A  | 2.2                 | 3    | 9 – 30                                  | 21 – 18     |
| FG4-50/250AR | 3                   | 4    | 9 – 30                                  | 24 – 21     |

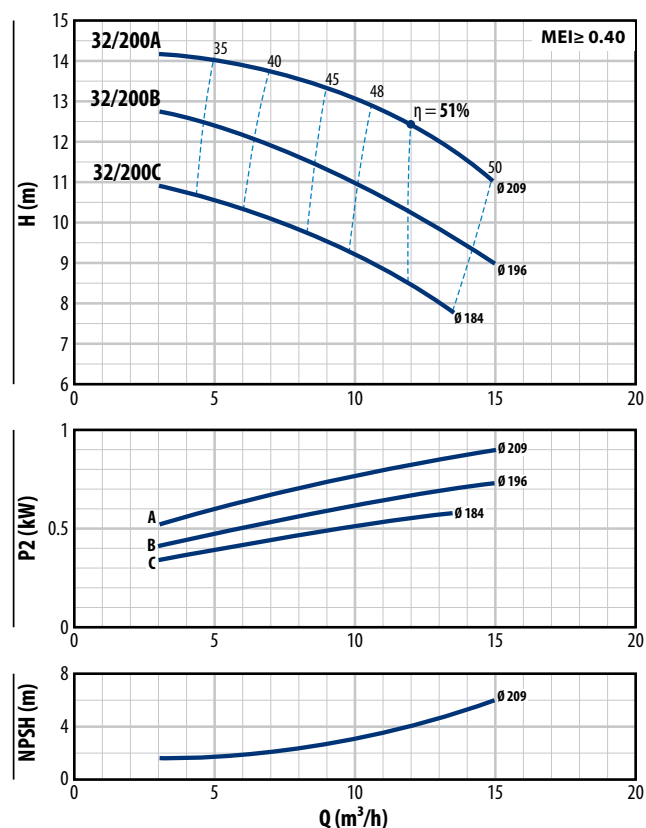
| MODELL       | MOTORE<br>DA ACCOPPIARE |      | PRESTAZIONI<br>n= 1450 min <sup>-1</sup> |             |
|--------------|-------------------------|------|------------------------------------------|-------------|
|              | kW                      | HP   | Q m³/h                                   | H m         |
| FG4-65/125C  | 0.55                    | 0.75 | 18 – 54                                  | 4 – 2.7     |
| FG4-65/125B  | 0.75                    | 1    | 18 – 60                                  | 4.5 – 3.2   |
| FG4-65/125A  | 1.1                     | 1.5  | 18 – 66                                  | 5.8 – 4.5   |
| FG4-65/160C  | 1.1                     | 1.5  | 18 – 66                                  | 8 – 5.5     |
| FG4-65/160B  | 1.5                     | 2    | 18 – 72                                  | 9 – 5.5     |
| FG4-65/160A  | 2.2                     | 3    | 18 – 72                                  | 10 – 7      |
| FG4-65/200B  | 2.2                     | 3    | 6 – 72                                   | 10.5 – 7.3  |
| FG4-65/200A  | 2.2                     | 3    | 6 – 75                                   | 12 – 8.5    |
| FG4-65/200AR | 3                       | 4    | 6 – 78                                   | 14 – 10     |
| FG4-65/250C  | 3                       | 4    | 12 – 70.5                                | 19 – 13     |
| FG4-65/250B  | 4                       | 5.5  | 12 – 75                                  | 21.5 – 15.5 |
| FG4-65/250A  | 5.5                     | 7.5  | 12 – 78                                  | 23.5 – 17   |
| FG4-80/160D  | 1.5                     | 2    | 15 – 120                                 | 6 – 2.5     |
| FG4-80/160C  | 2.2                     | 3    | 15 – 120                                 | 7.5 – 3.5   |
| FG4-80/160B  | 2.2                     | 3    | 15 – 120                                 | 8.5 – 5     |
| FG4-80/160A  | 3                       | 4    | 15 – 120                                 | 10 – 6      |
| FG4-80/200B  | 4                       | 5.5  | 15 – 109.5                               | 14 – 8.5    |
| FG4-80/200A  | 5.5                     | 7.5  | 15 – 117                                 | 15.5 – 10   |
| FG4-80/250B  | 5.5                     | 7.5  | 18 – 108                                 | 19 – 13.5   |
| FG4-80/250A  | 7.5                     | 10   | 18 – 117                                 | 22 – 15     |
| FG4-100/160C | 2.2                     | 3    | 24 – 144                                 | 7.5 – 3     |
| FG4-100/160B | 2.2                     | 3    | 24 – 156                                 | 8.3 – 3.5   |
| FG4-100/160A | 3                       | 4    | 24 – 168                                 | 9.5 – 3.8   |
| FG4-100/200C | 4                       | 5.5  | 24 – 139.5                               | 12.5 – 7    |
| FG4-100/200B | 5.5                     | 7.5  | 24 – 147                                 | 14 – 8      |
| FG4-100/200A | 5.5                     | 7.5  | 24 – 157.5                               | 15.5 – 9.5  |
| FG4-100/250B | 7.5                     | 10   | 24 – 154.5                               | 18.5 – 12   |
| FG4-100/250A | 9.2                     | 12.5 | 24 – 172.5                               | 22 – 14.5   |

Q = Förderstrom  
H = Gesamtdruckhöhe  
Kennlinientoleranz gemäß EN ISO 9906 Grad 3B.

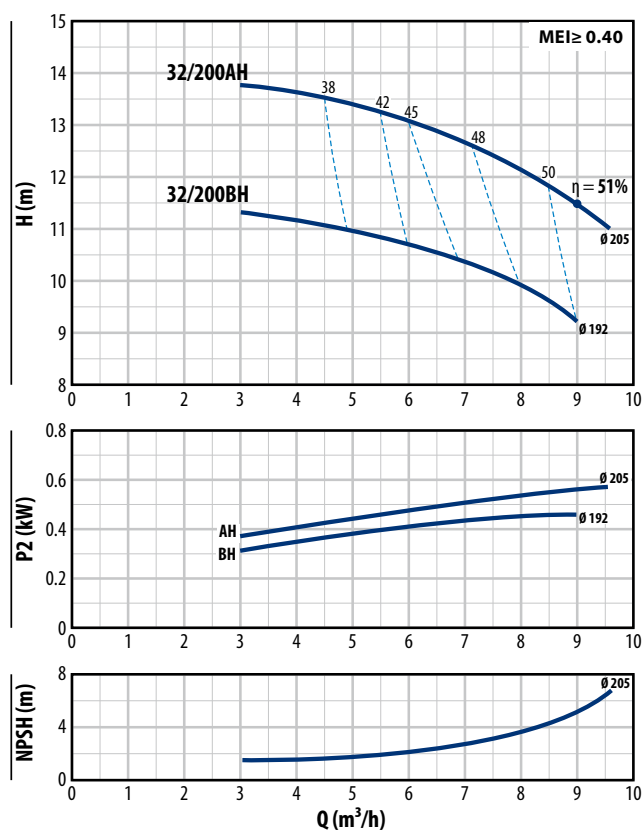
## FG4-32/160



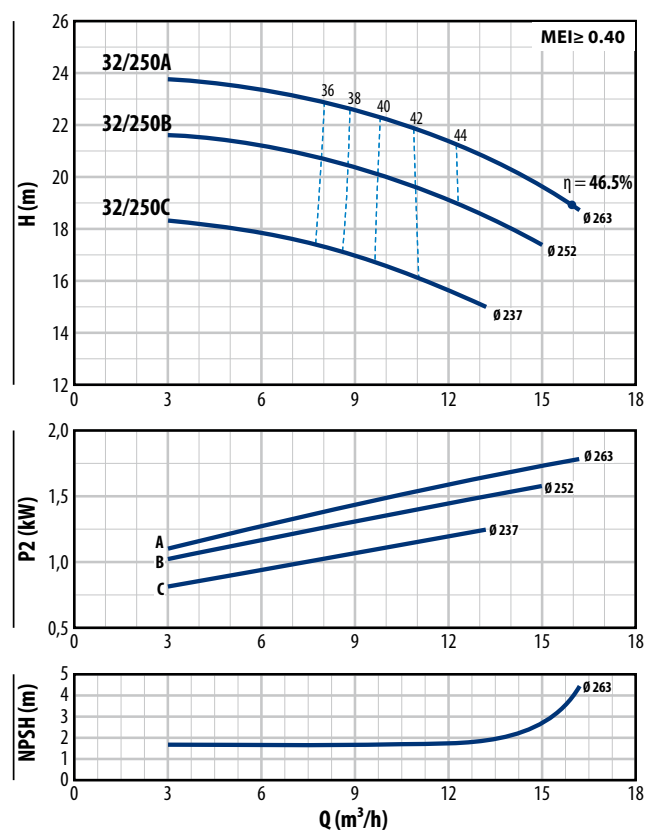
## FG4-32/200



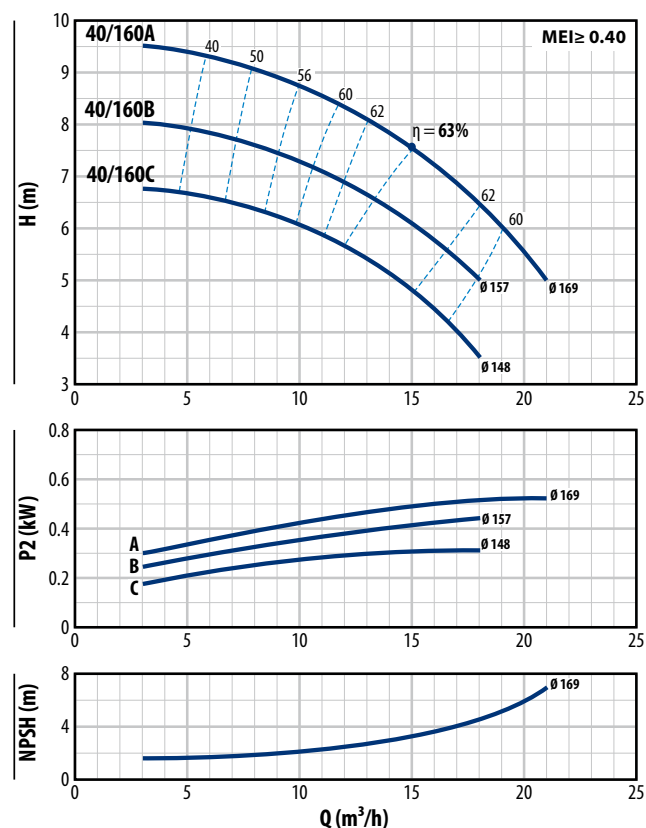
## FG4-32/200H



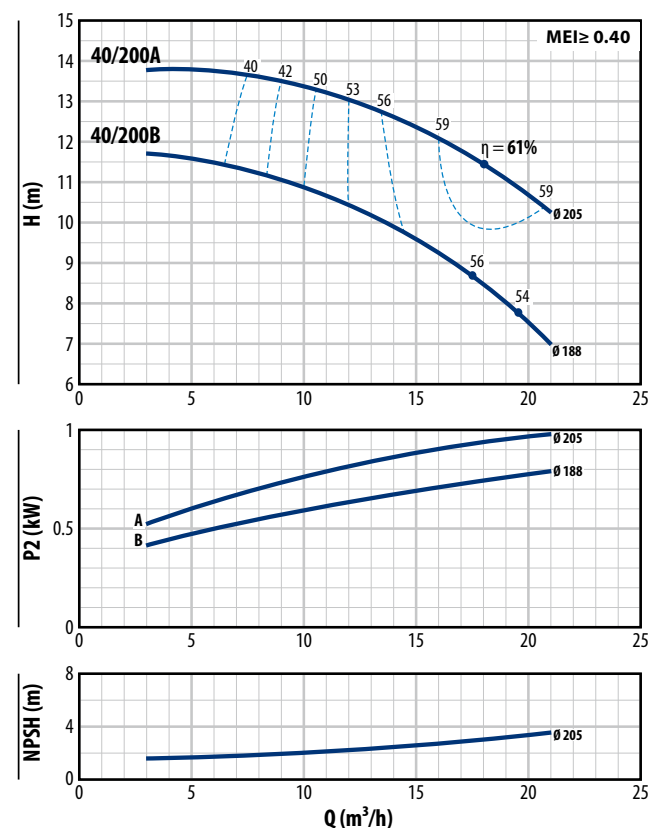
## FG4-32/250



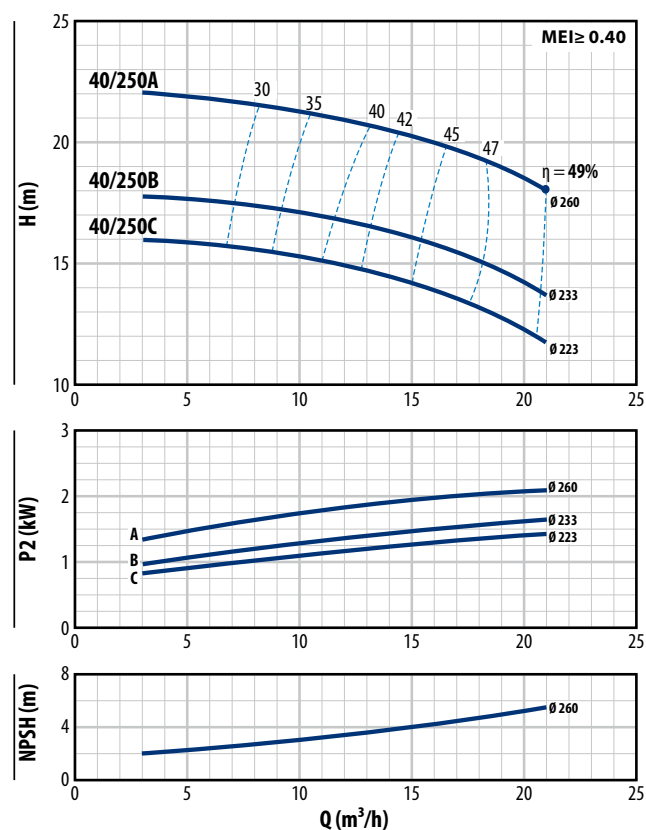
## FG4-40/160



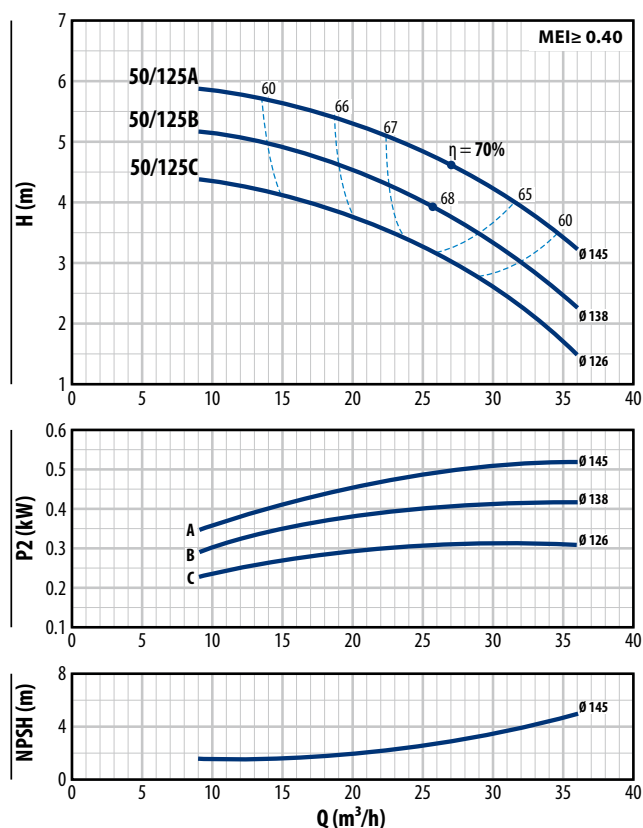
## FG4-40/200



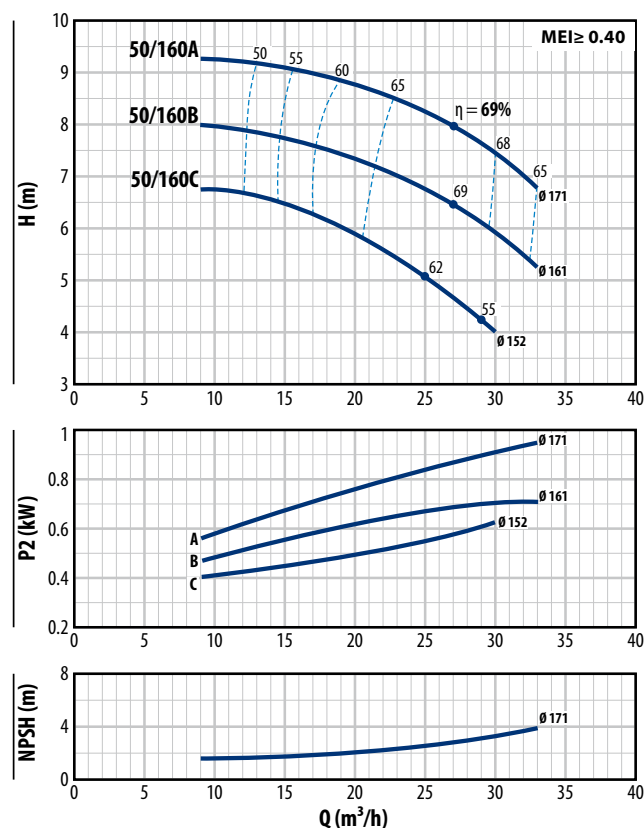
## FG4-40/250



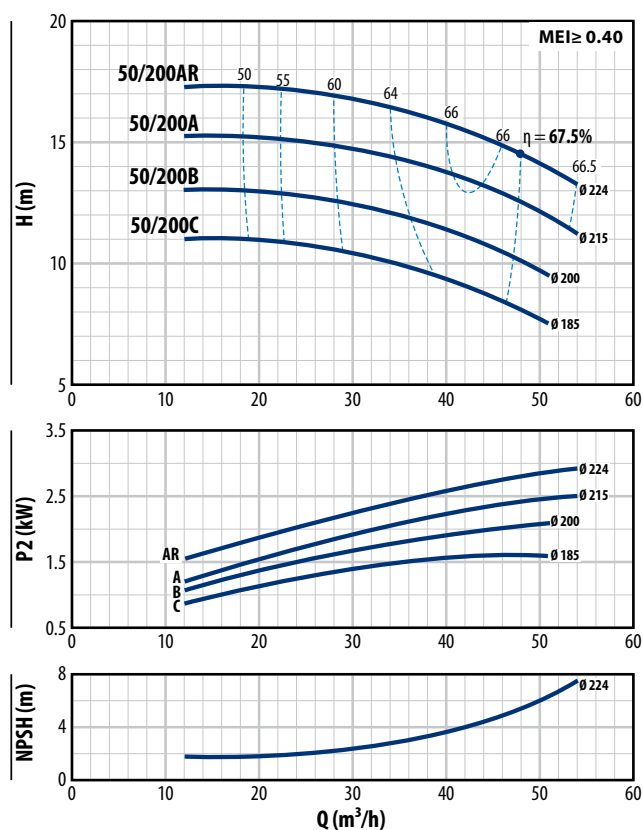
## FG4-50/125



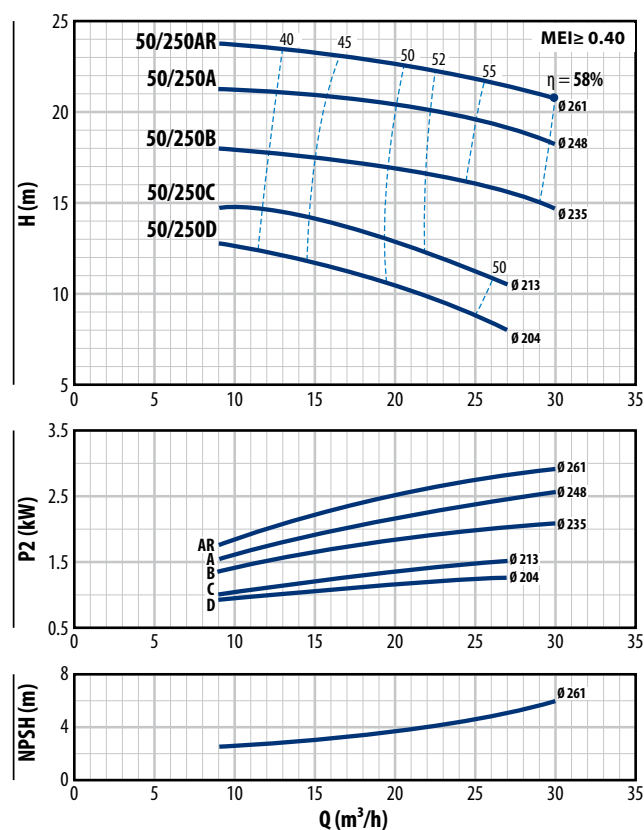
## FG4-50/160



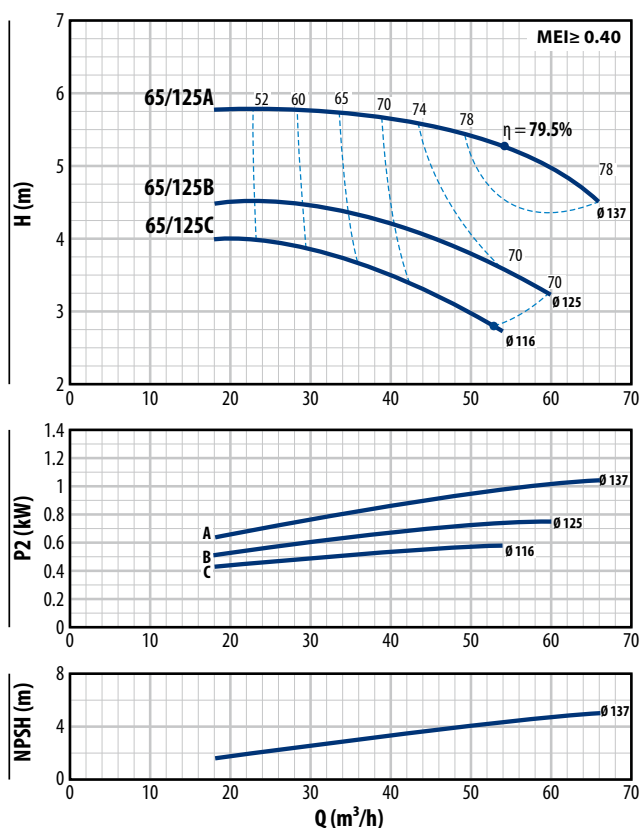
## FG4-50/200



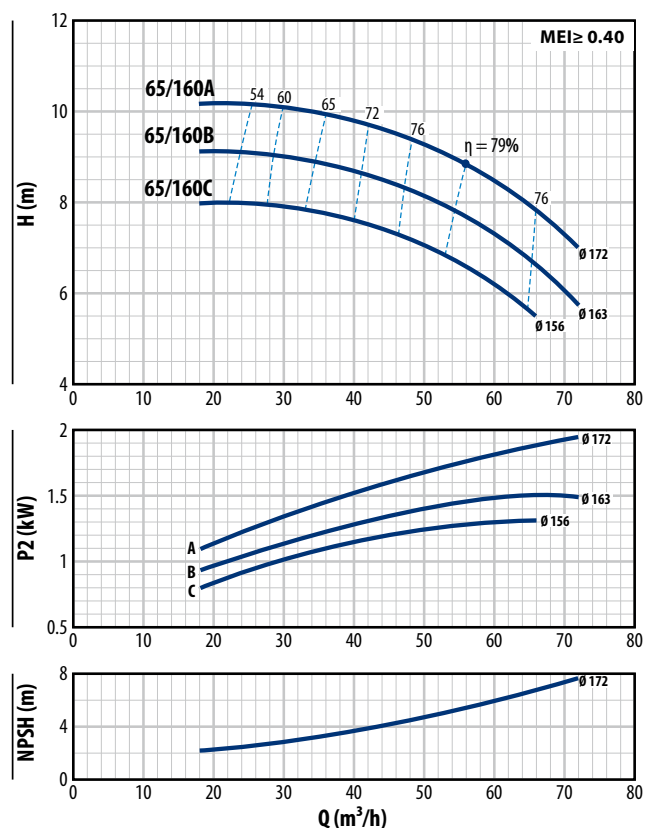
## FG4-50/250



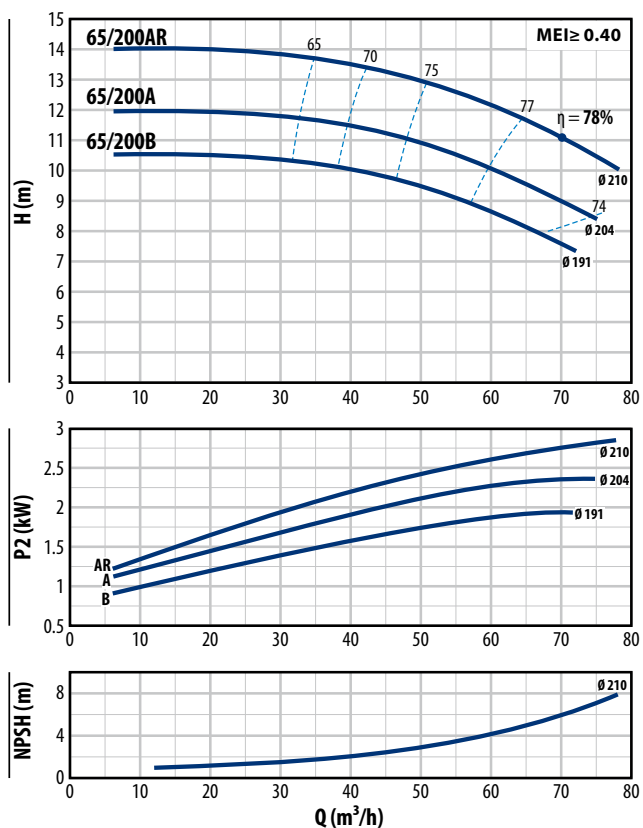
## FG4-65/125



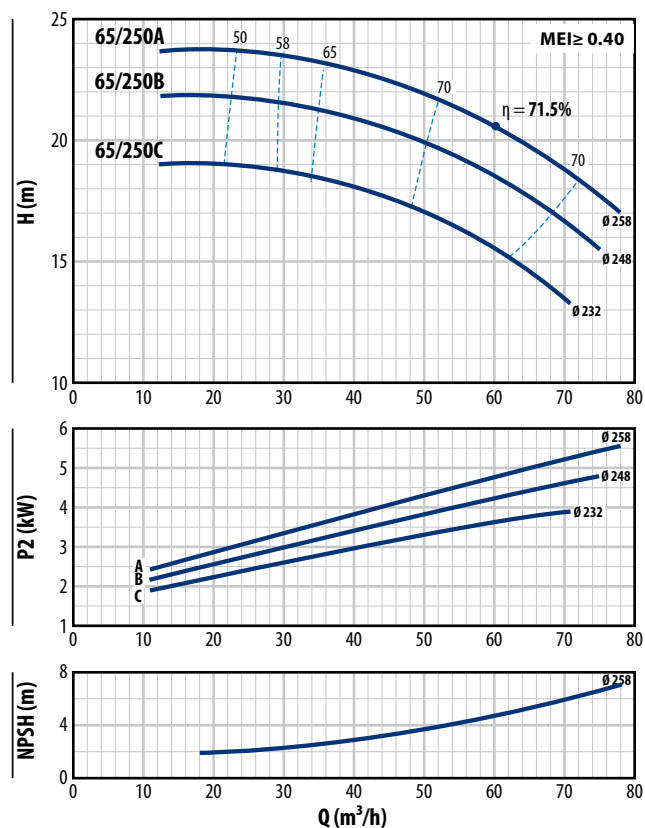
## FG4-65/160



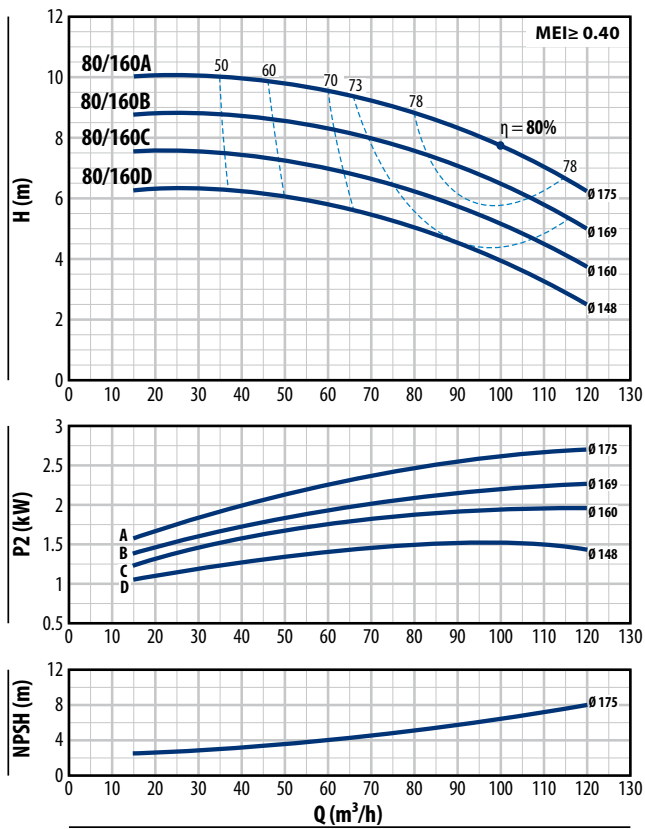
## FG4-65/200



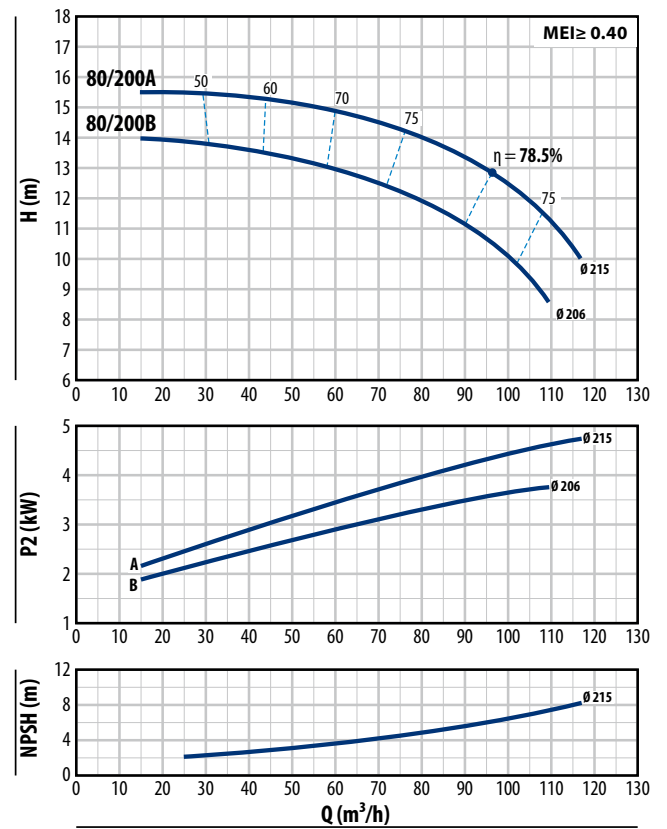
## FG4-65/250



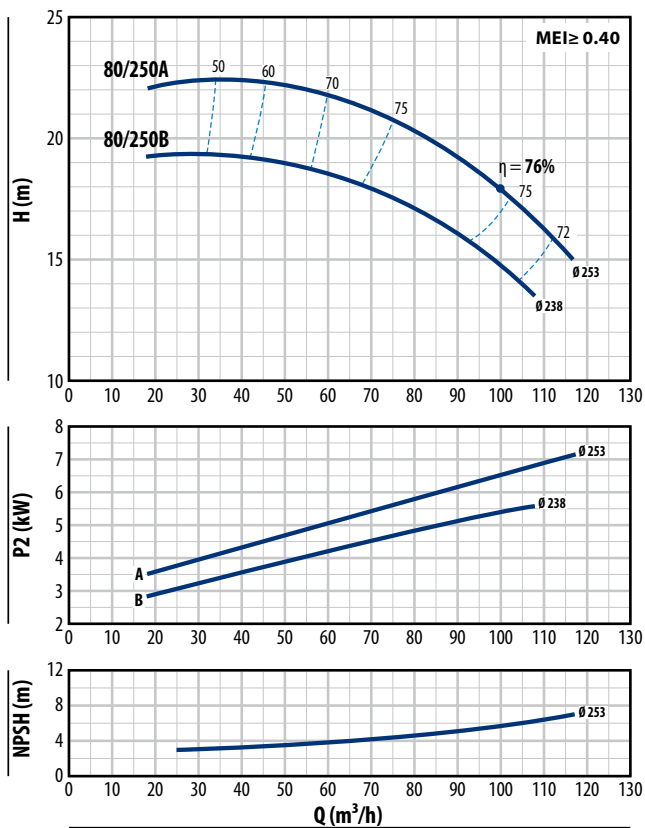
## FG4-80/160



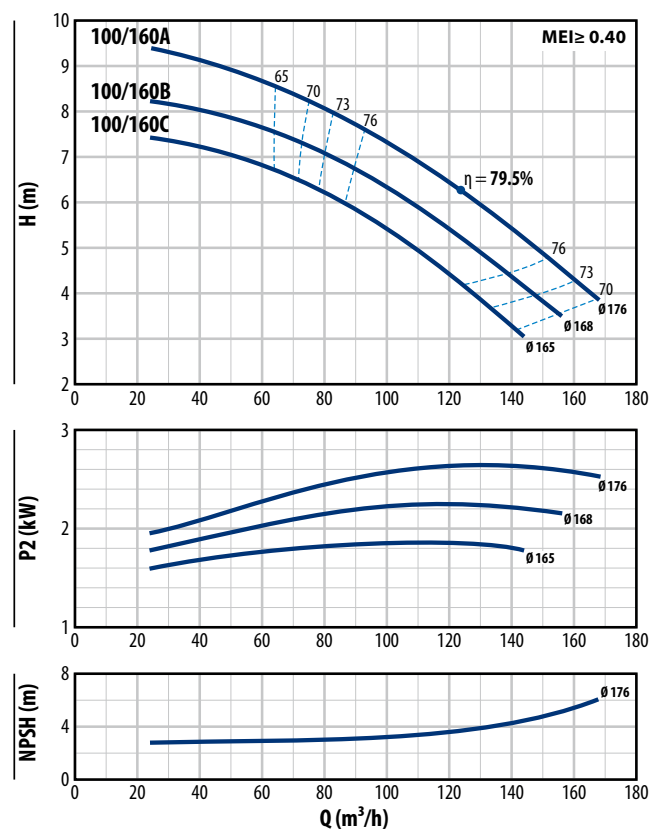
## FG4-80/200



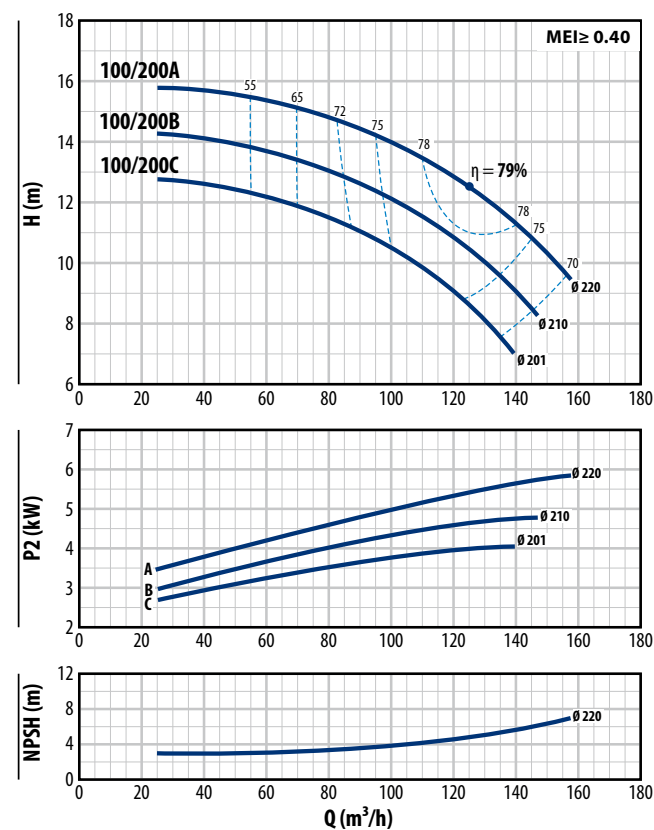
## FG4-80/250



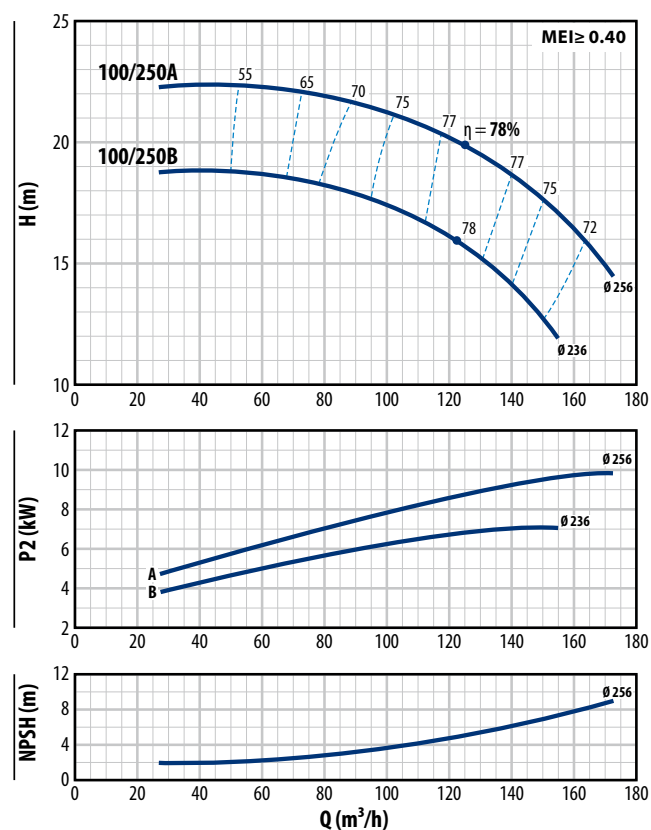
## FG4-100/160



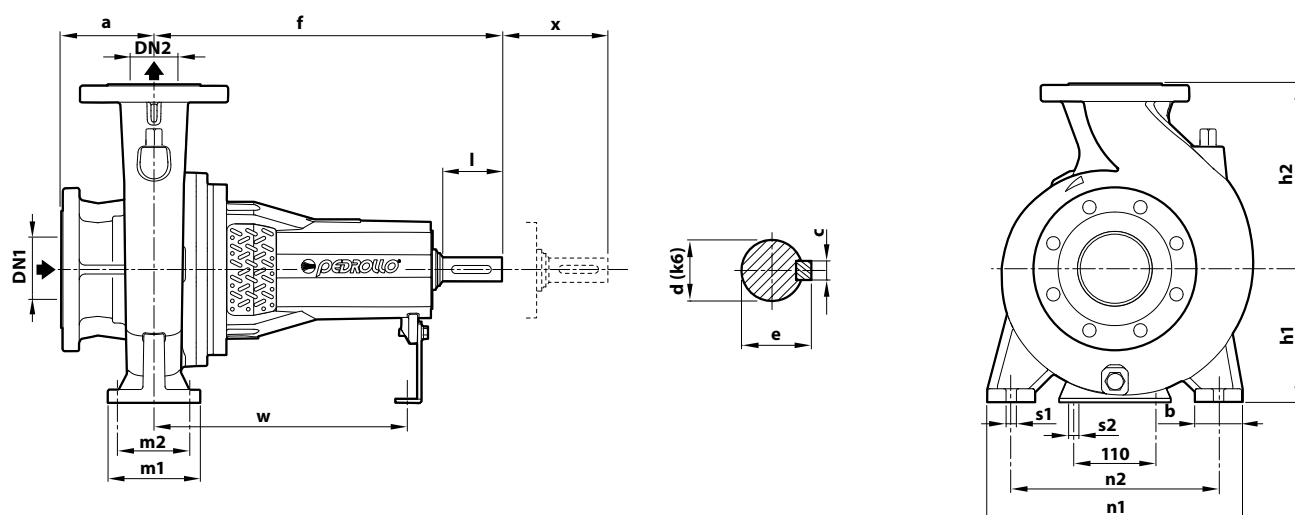
## FG4-100/200



## FG4-100/250

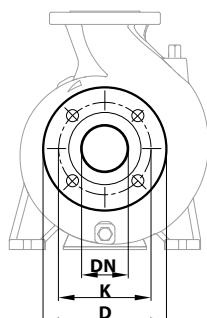


## ABMESSUNGEN UND GEWICHTE



| MODELL     | STUTZEN |     | ABMESSUNGEN mm |     |     |     |     |      |      |      |      |      |      |     |     |    |        |    |      | kg   |      |     |    |    |   |
|------------|---------|-----|----------------|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|----|--------|----|------|------|------|-----|----|----|---|
|            | DN1     | DN2 | a              | f   | h1  | h2  | b   | m1   | m2   | n1   | n2   | s1   | s2   | w   | x   | l  | d (k6) | c  | e    |      |      |     |    |    |   |
| FG 32/160  | 50      | 32  | 80             | 360 | 132 | 160 | 55  | 96   | 71   | 240  | 190  | 14   | 14   | 260 | 100 | 50 | 24     | 8  | 27   | 33.0 |      |     |    |    |   |
| FG 32/200  |         |     |                |     | 160 | 180 | 55  | 95   |      |      |      |      |      |     |     |    |        |    |      | 38.1 |      |     |    |    |   |
| FG 32/200H |         |     |                |     | 160 | 180 | 55  |      |      |      |      |      |      |     |     |    |        |    |      | 36.9 |      |     |    |    |   |
| FG 32/250  |         |     | 100            |     | 180 | 225 | 65  | 125  | 95   | 320  | 250  |      |      |     |     |    |        |    |      | 53.0 |      |     |    |    |   |
| FG 40/125  | 65      | 40  | 80             |     | 112 | 140 | 50  | 100  | 70   | 210  | 160  |      |      |     |     |    |        |    |      | 30.4 |      |     |    |    |   |
| FG 40/160  |         |     |                |     | 132 | 160 |     |      |      | 240  | 190  |      |      |     |     |    |        |    |      | 34.1 |      |     |    |    |   |
| FG 40/200  |         |     |                |     | 160 | 180 |     |      |      | 55   | 265  |      |      |     |     |    |        |    |      | 212  | 40.2 |     |    |    |   |
| FG 40/250  |         |     | 100            |     | 180 | 225 | 65  | 125  | 95   | 320  | 250  |      |      |     |     |    |        |    |      | 14   | 260  | 100 | 50 | 24 | 8 |
| FG 50/125  | 132     | 160 |                |     | 50  | 100 | 70  | 240  | 190  | 33.0 |      |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 50/160  | 160     | 180 |                |     | 55  |     |     | 265  | 212  | 38.3 |      |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 50/200  | 160     | 200 |                |     | 50  |     |     | 50.3 |      |      |      |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 50/250  | 180     | 225 |                |     | 65  | 125 | 95  | 320  | 250  | 57.0 |      |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 65/125  | 160     | 180 |                | 65  | 280 |     |     | 212  | 45.2 |      |      |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 65/160  | 80      | 65  |                | 160 | 200 |     |     | 65   | 320  | 250  | 48.0 |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 65/200  |         |     |                | 180 | 225 |     |     | 65   | 320  | 250  | 55.1 |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 65/250  |         |     |                | 470 | 200 | 250 | 80  | 160  | 120  | 360  | 280  | 18   | 340  | 140 | 80  | 32 | 10     | 35 | 82.4 |      |      |     |    |    |   |
| FG 80/160  | 100     | 80  |                | 125 | 360 | 180 | 225 | 65   | 125  | 95   | 320  | 250  | 14   |     | 260 | 50 | 24     | 8  | 27   | 53.0 |      |     |    |    |   |
| FG 80/200  |         |     |                |     | 470 | 180 | 250 | 65   |      |      | 345  | 280  | 340  |     | 80  | 32 | 10     | 35 | 72.0 |      |      |     |    |    |   |
| FG 80/250  |         |     |                |     |     | 200 | 280 | 80   |      |      | 400  | 315  | 91.1 |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 100/160 |         |     | 125            | 100 | 360 | 200 | 280 | 80   | 160  | 120  | 360  | 280  | 18   | 260 | 50  | 24 | 8      | 27 | 76.3 |      |      |     |    |    |   |
| FG 100/200 | 470     | 200 |                |     | 280 | 80  | 400 | 315  |      |      | 82.1 |      |      |     |     |    |        |    |      |      |      |     |    |    |   |
| FG 100/250 |         | 140 |                |     | 225 | 280 | 80  | 400  |      |      | 315  | 96.0 |      |     |     |    |        |    |      |      |      |     |    |    |   |

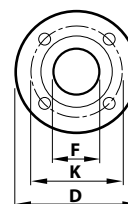
## ÖFFNUNGSFLANSCH



| DN FLANSCH | D   | K   | LÖCHER |        |
|------------|-----|-----|--------|--------|
| mm         | mm  | mm  | Nr.    | Ø (mm) |
| 32         | 140 | 100 | 4      | 18     |
| 40         | 150 | 110 |        |        |
| 50         | 165 | 125 |        |        |
| 65         | 185 | 145 |        |        |
| 80         | 200 | 160 | 8      |        |
| 100        | 220 | 180 |        |        |
| 125        | 250 | 210 |        |        |

## GEGENFLANSCH

(KANN SEPARAT BESTELLT WERDEN)



| DN FLANSCH | F            | D   | K   | LÖCHER |        |
|------------|--------------|-----|-----|--------|--------|
| mm         | GEGENFLANSCH | mm  | mm  | Nr.    | Ø (mm) |
| 32         | 1¼"          | 140 | 100 | 4      | 18     |
| 40         | 1½"          | 150 | 110 |        |        |
| 50         | 2"           | 165 | 125 |        |        |
| 65         | 2½"          | 185 | 145 |        |        |
| 80         | 3"           | 200 | 160 | 8      |        |
| 100        | 4"           | 220 | 180 |        |        |
| 125        | 5"           | 250 | 210 |        |        |