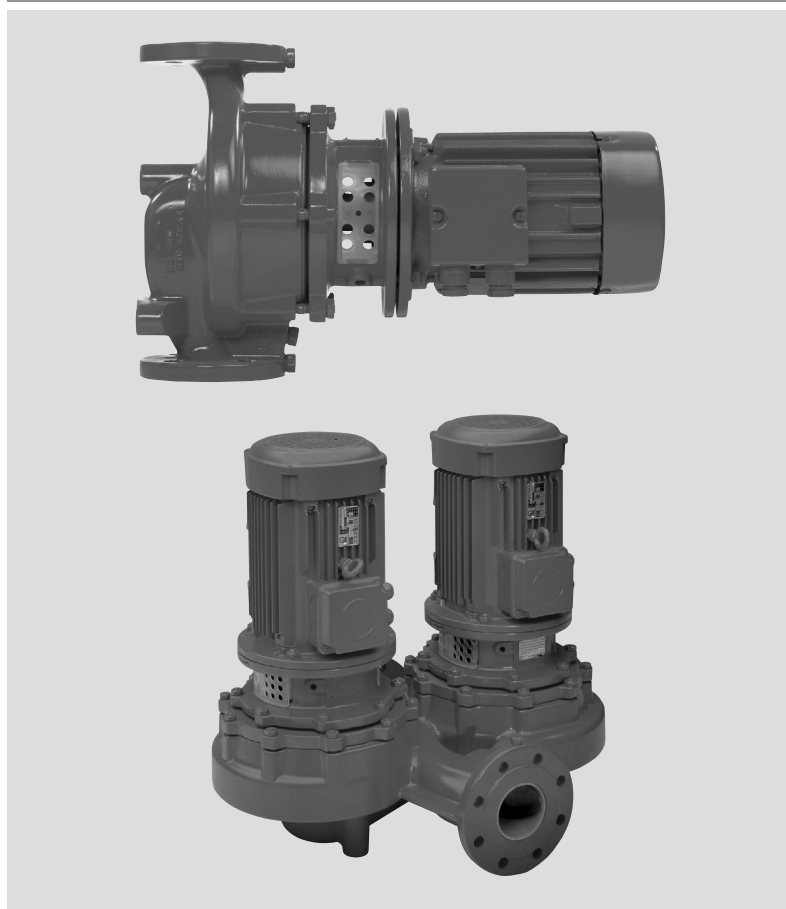


## Etaline / Etaline Z

2

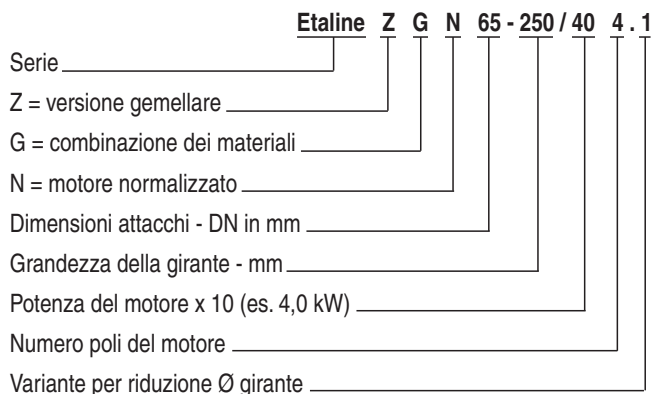


## Scheda tecnica

### Descrizione

Pompe in-line PN 16, singole e gemellari, con motori normalizzati a 4 e 2 poli

### Struttura della sigla d'identificazione



### Limiti d'esercizio

t da **-30°C** a **+140°C** (tenuta G6)

t<sub>amb</sub> da **0°C** a **+ 40°C** (ambiente)

p<sub>max</sub> **16 bar**

Q / H fino a Q di **620 m³/h** e H di **90 m**

Per acqua additivata con antigelo e/o con prodotti inibitori anticalcare e antiruggine a base di glicole max. del 50% (oltre 20% consultarci)

### Idraulica

- Corpo pompa PN 16 con attacchi da 3/8" o 1/2" tappati per scarico liquido e spurgo aria
- Girante con fori di equilibratura per la compensazione della spinta assiale
- Anelli d'usura sull'aspirazione del corpo e sulla girante sostituibili
- Albero ad alta resistenza meccanica in acciaio C45
- Tenuta meccanica alloggiata su bussola in acciaio inox (1.4571) per protezione albero
- Canale per sfiato dell'aria ed espulsione delle impurità dalla camera della tenuta
- Giunto d'accoppiamento pompa / motore rigido con soluzione ad innesto dell'albero rotore nella sede del giunto
- Lanterna di collegamento pompa / motore con griglia di protezione
- Versione gemellare con valvola a doppio clapet ammortizzato a molla (per grandezze DN 100 il clapet è singolo), corpo della valvola è in Rilsan (dal DN 100 al DN 200 è in bronzo), farfalle, molle ed assi in acciaio al cromo
- Attacchi tappati per spurgo manuale della camera di ciascuna tenuta meccanica nella versione gemellare ai quali può essere collegata una valvola di sfiato aria
- Cuscinetti radiali a sfera lubrificati a grasso
- Attacchi in-line con flange da DN 32 a 200 PN 16 DIN 2533 con attacchi da 3/8" o 1/2" tappati per collegamento manometro
- Verniciatura corpo e motore RAL 2002

### Motore

- 3 ~ 230 V (Δ) / 400 V (Y) ≤ 2,2 kW e 3 ~ 400 V (Δ) / 690 V (Y) ≥ da 3 kW, 50 Hz, IP 55, classe di isolamento F
- Potenza nominale (P<sub>2</sub>) fino a 55 kW; 4 e 2 poli
- Classe di efficienza energetica IE2 (ex EFF 1) da 0,75 a 90 kW
- Asincrono trifase normalizzato ventilato esternamente
- Forma costruttiva fino a 4,0 kW IM V1, a partire da 5,5 kW IM V15
- Avviamento diretto fino a 2,2 kW (collegamento a Y), da 3,0 kW con collegamento a Δ; avviamento stella / triangolo da 3,0 kW con collegamento a Y / Δ
- Protezione dal sovraccarico assicurata da tre PTC collegati in serie, integrati nell'avvolgimento da collegare a dispositivo di sgancio
- Necessita protezione amperometrica tarata sul massimo valore di corrente assorbita
- Alimentazione tramite inverter entro il campo di frequenza 20 ÷ 50 Hz (a 2 poli) e 25 ÷ 50 Hz (a 4 poli); per valori inferiori consultarci

### Accessori idraulici a richiesta

- Flange cieche per manutenzione Etaline Z
- Controflange con collarino a saldare PN 10/16, bulloni / guarnizioni

### Versioni speciali a richiesta

- Versione MN con girante e anelli di usura in bronzo
- Diverse soluzioni di tenute meccaniche (vedere tabella)
- Alimentazione a 60 Hz e/o diverse tensioni

### Testo per capitolato Etaline

Elettropompa in-line singola **KSB Etaline GN** PN 16, t da -30 a +140 °C, idraulica in ghisa EN-GJL-250 (EN 1561) accoppiata tramite giunto rigido a motore normalizzato a 4 o 2 poli:

- bussola protezione albero in inox 1.4571;
- anelli d'usura in ghisa EN-GJL-250 sostituibili sull'aspirazione del corpo pompa e sulla girante;
- camera della tenuta con canale comunicante con il corpo pompa per sfiato aria ed espulsione impurità;
- PTC di protezione motore integrati in ogni bobina;
- albero ad alta resistenza meccanica in acciaio C45;
- giunto d'accoppiamento pompa / motore rigido con soluzione ad innesto dell'albero rotore nella sede del giunto;
- verniciatura corpo e motore RAL 2002.

## Testo per capitolato Etaline Z

Elettropompa in-line gemellare **KSB Etaline Z GN** PN 16, t da -30 a +140 °C, con idraulica in ghisa EN-GJL-250 (EN 1561) accoppiata tramite giunto rigido a motore normalizzato a 4 o 2 poli:

- bussola protezione albero in inox 1.4571;
- anelli d'usura in ghisa EN-GJL-250 sostituibili sull'aspirazione del corpo pompa e sulla girante;
- camera della tenuta con canale comunicante con il corpo pompa per sfogo aria ed espulsione impurità
- attacchi tappati per spurgo manuale della camera di ciascuna tenuta meccanica;
- PTC di protezione motore integrati in ogni bobina,
- valvola a doppio clapet in Rilsan con movimento ammortizzato tramite molla fino a DN 80;
- valvola a clapet singolo, in bronzo, per DN ≥ 100;
- albero ad alta resistenza meccanica in acciaio C45;
- giunto d'accoppiamento pompa / motore rigido con soluzione ad innesto dell'albero rotore nella sede del giunto;
- verniciatura corpo e motore RAL 2002.

## Materiali

| Esecuzione standard         | Etaline GN / Etaline Z GN (singola / gemellare) |
|-----------------------------|-------------------------------------------------|
| Corpo pompa                 | Ghisa JL 1040 <sup>1)</sup>                     |
| Coperchio premonte          | Ghisa JL 1040 <sup>1)</sup>                     |
| Girante                     | Ghisa JL 1040 <sup>1)</sup>                     |
| Anelli di usura / di tenuta | Ghisa JL 1040 <sup>1)</sup>                     |
| Giunto                      | Acciaio St 60/C45 N                             |
| Albero                      | Acciaio al carbonio C45                         |
| Bussola protezione albero   | Acciaio al NiCrMo 1.4571                        |
| Lanterna                    | Ghisa EN-GJL-250 <sup>1)</sup>                  |

| Esecuzione a richiesta      | Etaline MN / Etaline Z MN (singola / gemellare)                 |
|-----------------------------|-----------------------------------------------------------------|
| Corpo pompa                 | Ghisa JL 1040 <sup>1)</sup>                                     |
| Coperchio premonte          | Ghisa JL 1040 <sup>1)</sup>                                     |
| Girante                     | Bronzo CC 480 K-GS <sup>2)</sup>                                |
| Anelli di usura / di tenuta | Ghisa JL 1040 <sup>1)</sup> /<br>Bronzo CC495K-GS <sup>3)</sup> |
| Giunto                      | Acciaio St 60/C45 N                                             |
| Albero                      | Acciaio al carbonio C45                                         |
| Bussola protezione albero   | Acciaio al NiCrMo 1.4571                                        |
| Lanterna                    | Ghisa EN-GJL-250 <sup>1)</sup>                                  |

<sup>1)</sup> Secondo EN 1561 = EN-GJL-250

<sup>2)</sup> Secondo EN 1982

## Abbinamenti tra applicazioni e tenute meccaniche

### Applicazioni standard

Versione con tenuta meccanica standard GN6 (**U3BEGG**)

Acqua <sup>1)</sup> da -30 °C a + 140 °C PN 16 particolarmente indicata in circuiti di solo riscaldamento (con antigelo a base di glicole etilenico con inibitori massimo al 50%)

Versione con tenuta meccanica a richiesta GN11 (**BQ1EGG**)

Acqua <sup>1)</sup> da -30 °C a + 120 °C PN 16 in circuito caldo / freddo per riscaldamento, condizionamento e refrigerazione (con antigelo a base di glicole etilenico con inibitori massimo al 50%) e refrigeranti a base di salamoia inorganica da -30 °C a +25 °C

<sup>1)</sup> pH => 7,5, contenuto di cloruro (Cl) ≤ 250 mg/kg, cloro (Cl<sub>2</sub>) ≤ 0,6 mg/kg, O<sub>2</sub> ≤ 0,02 mg/l

## Abbinamenti tra applicazioni e tenute meccaniche

### Applicazioni particolari

Versione con tenuta meccanica GN10 (**Q1Q1X4GG**)

Acqua 1) leggermente sporca (≤ 60 °C)

Soluzioni detergenti e sgrassanti con pH da 7 a 14 (≤ 90 °C)

Acqua per piscine con concentrazione di cloro (Cl<sub>2</sub>) ≤ 0,6 mg/kg

Versione con tenuta meccanica GN9 (**U3U3VGG**)

Emulsione acqua - olio per macchine utensili (≤ 60 °C)

Esecuzione MN (corpo in ghisa e girante in bronzo)

Versione con tenuta meccanica MN10 (**Q1Q1X4GG**)

Acqua per piscine con metodi di disinfezione regolati dalla normativa tedesca DIN 19 643: concentrazione di cloro di 0,7 - 1,0 mg/kg

1) pH => 7,5, contenuto di cloruro (Cl) ≤ 250 mg/kg, cloro (Cl<sub>2</sub>) ≤ 0,6 mg/kg, O<sub>2</sub> ≤ 0,02 mg/l

## Materiali costruttivi delle tenute meccaniche

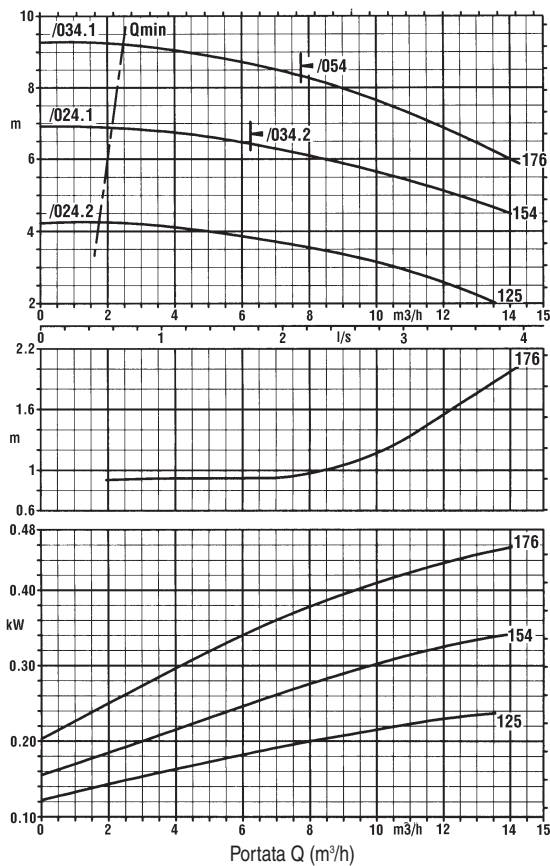
### Combinazione materiali per tenute:

| Tenute meccaniche | 6  | 9  | 10 | 11 | U3 = Carburo di Tungsteno<br>B = Carbone, impregnato di resina |
|-------------------|----|----|----|----|----------------------------------------------------------------|
| Componenti        |    |    |    |    |                                                                |
| Anello rotante    | U3 | U3 | Q1 | B  | Q1 = Carburo di silicio                                        |
| Anello fisso      | B  | U3 | Q1 | Q1 | X4 = HNBR - Perbunan                                           |
| Elastomero        | E  | V  | X4 | E  | E = EPDM                                                       |
| Molla             | G  | G  | G  | G  | V = Viton                                                      |
| Parti metalliche  | G  | G  | G  | G  | G = Acciaio inox al CrNiMo                                     |

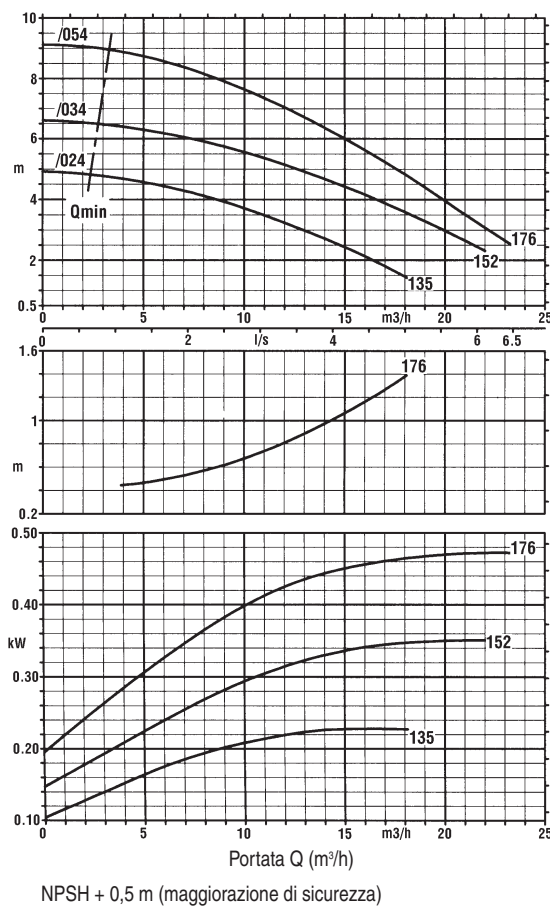
Curve Etaline (singole)

Motori a 4 poli

Etaline 32 - 160

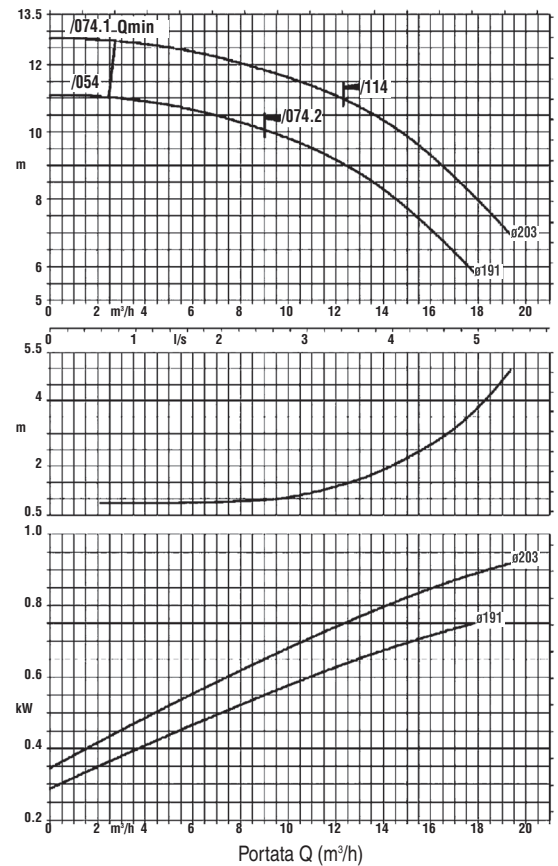


Etaline 40 - 160

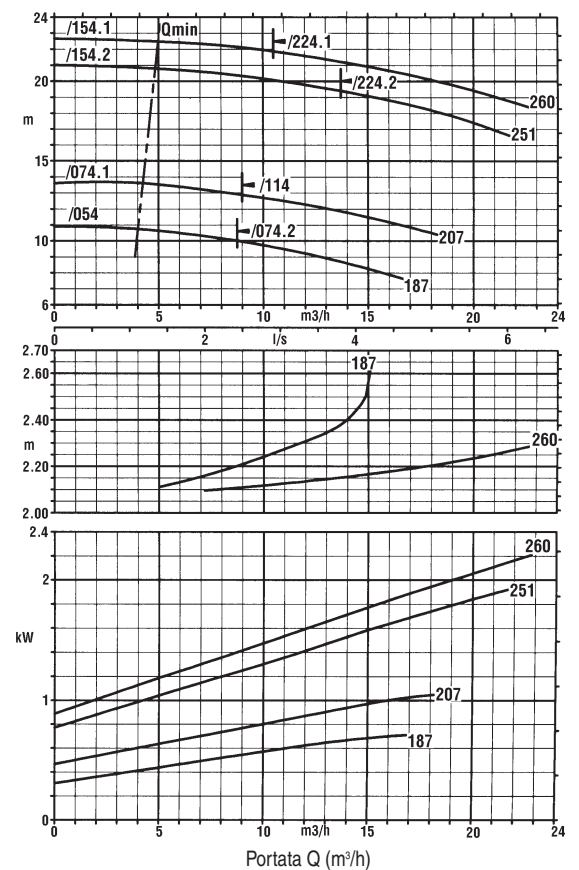


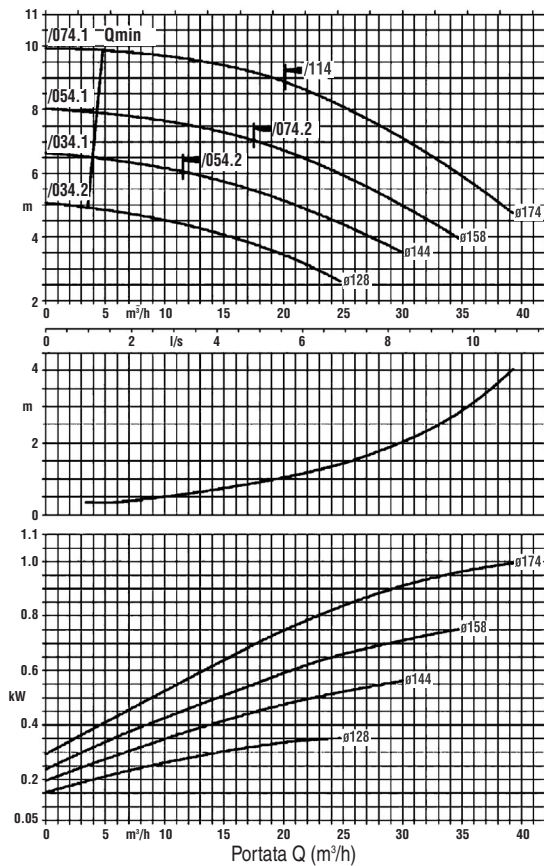
NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline 32 - 200



Etaline 40 - 250



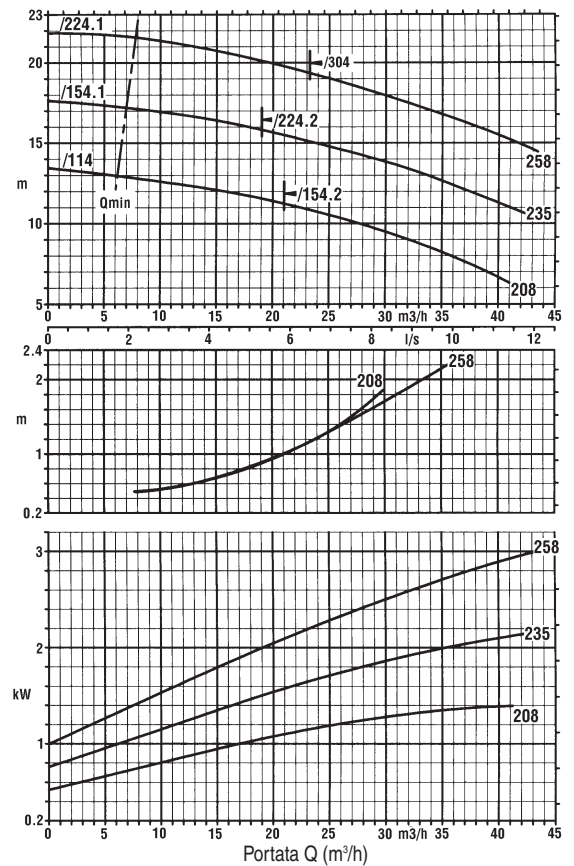
**Curve Etaline (singole)**
**Motori a 4 poli**
**Etaline 50 - 160**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline 50 - 250**

 Prevalenza  
H (m)

 NPSH  
(m)

 Potenza  
assorbita  
P<sub>z</sub> (kW)

**Diametri degli attacchi, interessi, dati elettrici, pesi**

| Etaline      | Diametro e distanza attacchi |     |     | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|-----|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M   | mm               | [kW]         | In [A]            | Kg   |
| 32-160/024.2 | 32                           | 320 | 71  | 28               | 0,25         | 0,8               | 28   |
| 32-160/024.1 | 32                           | 320 | 71  | 28               | 0,25         | 0,8               | 28   |
| 32-160/034.2 | 32                           | 320 | 71  | 28               | 0,37         | 1,1               | 29   |
| 32-160/034.1 | 32                           | 320 | 71  | 28               | 0,37         | 1,1               | 29   |
| 32-160/054   | 32                           | 320 | 80  | 28               | 0,55         | 1,4               | 33   |
| 32-200/054   | 32                           | 380 | 80  | 28               | 0,55         | 1,4               | 40   |
| 32-200/074.2 | 32                           | 380 | 80  | 28               | 0,75         | 1,9               | 41   |
| 32-200/074.1 | 32                           | 380 | 80  | 28               | 0,75         | 1,9               | 41   |
| 32-200/114   | 32                           | 380 | 90S | 28               | 1,1          | 2,6               | 46   |
| 40-160/024   | 40                           | 320 | 71  | 28               | 0,25         | 0,8               | 30   |
| 40-160/034   | 40                           | 320 | 71  | 28               | 0,37         | 1,1               | 31   |
| 40-160/054   | 40                           | 320 | 80  | 28               | 0,55         | 1,4               | 34   |
| 40-250/054   | 40                           | 440 | 80L | 28               | 0,55         | 1,4               | 49   |
| 40-250/074.2 | 40                           | 440 | 80L | 28               | 0,75         | 1,9               | 50   |
| 40-250/074.1 | 40                           | 440 | 80L | 28               | 0,75         | 1,9               | 50   |

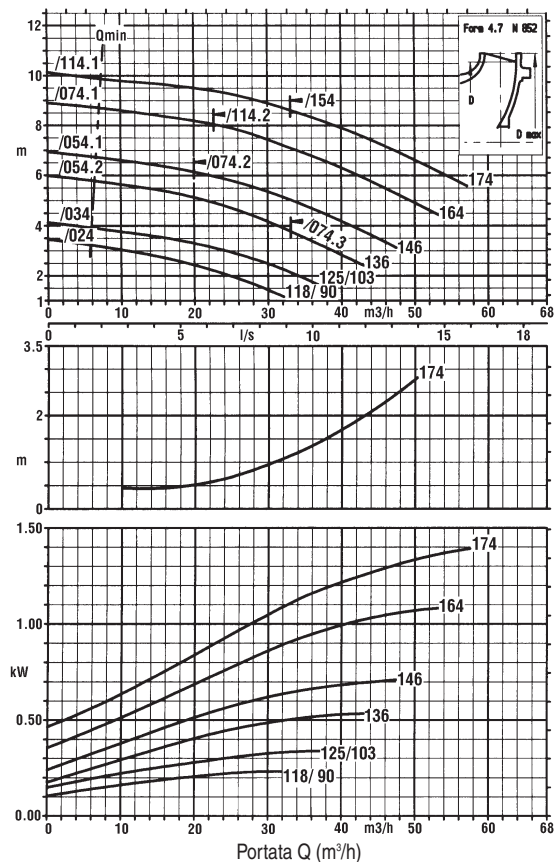
| Etaline      | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 40-250/114   | 40                           | 440 | 90S  | 28               | 1,1          | 2,6               | 55   |
| 40-250/154.2 | 40                           | 440 | 90L  | 28               | 1,5          | 3,4               | 60   |
| 40-250/154.1 | 40                           | 440 | 90L  | 28               | 1,5          | 3,4               | 60   |
| 40-250/224.2 | 40                           | 440 | 100L | 28               | 2,2          | 4,7               | 69   |
| 40-250/224.1 | 40                           | 440 | 100L | 28               | 2,2          | 4,7               | 69   |
| 50-160/034.2 | 50                           | 340 | 71   | 28               | 0,37         | 1,1               | 33   |
| 50-160/034.1 | 50                           | 340 | 71   | 28               | 0,37         | 1,1               | 33   |
| 50-160/054.2 | 50                           | 340 | 80   | 28               | 0,55         | 1,4               | 36   |
| 50-160/054.1 | 50                           | 340 | 80   | 28               | 0,55         | 1,4               | 36   |
| 50-160/074.2 | 50                           | 340 | 80   | 28               | 0,75         | 1,9               | 37   |
| 50-160/074.1 | 50                           | 340 | 80   | 28               | 0,75         | 1,9               | 37   |
| 50-160/114   | 50                           | 340 | 90S  | 28               | 1,1          | 2,6               | 42   |
| 50-250/114   | 50                           | 440 | 90S  | 28               | 1,1          | 2,6               | 59   |
| 50-250/154.2 | 50                           | 440 | 90L  | 28               | 1,5          | 3,4               | 63   |
| 50-250/154.1 | 50                           | 440 | 90L  | 28               | 1,5          | 3,4               | 63   |
| 50-250/224.2 | 50                           | 440 | 100L | 28               | 2,2          | 4,7               | 72   |
| 50-250/224.1 | 50                           | 440 | 100L | 28               | 2,2          | 4,7               | 72   |
| 50-250/304   | 50                           | 440 | 100L | 28               | 3,0          | 6,4               | 76   |



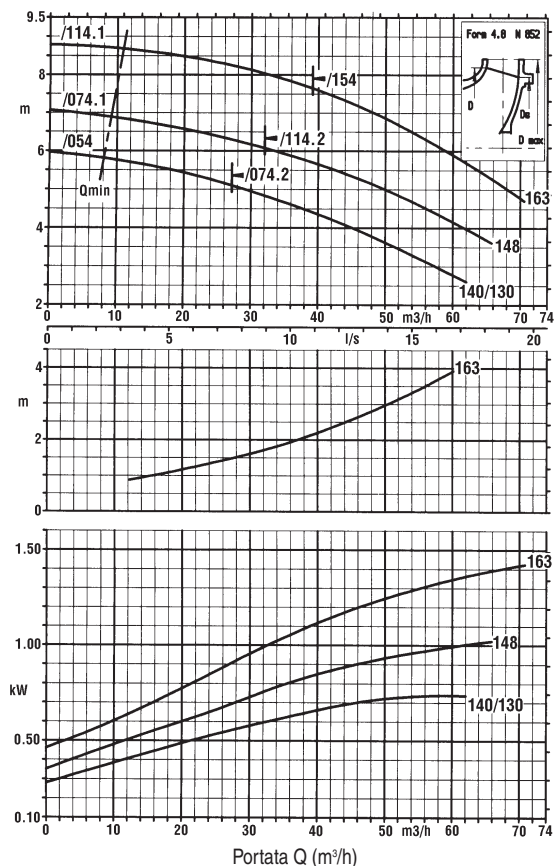
## Curve Etaline (singole)

## Motori a 4 poli

Etaline 65 - 160



Etaline 80 - 160



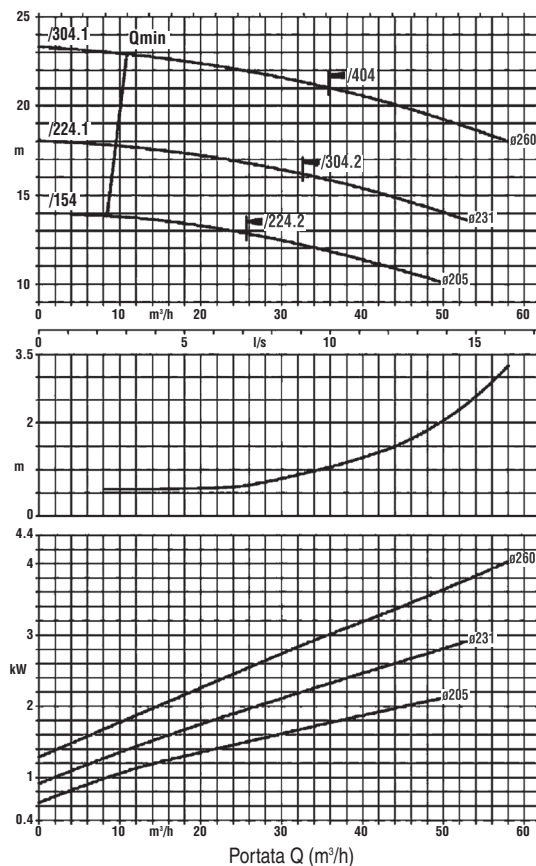
NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline 65 - 250

Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

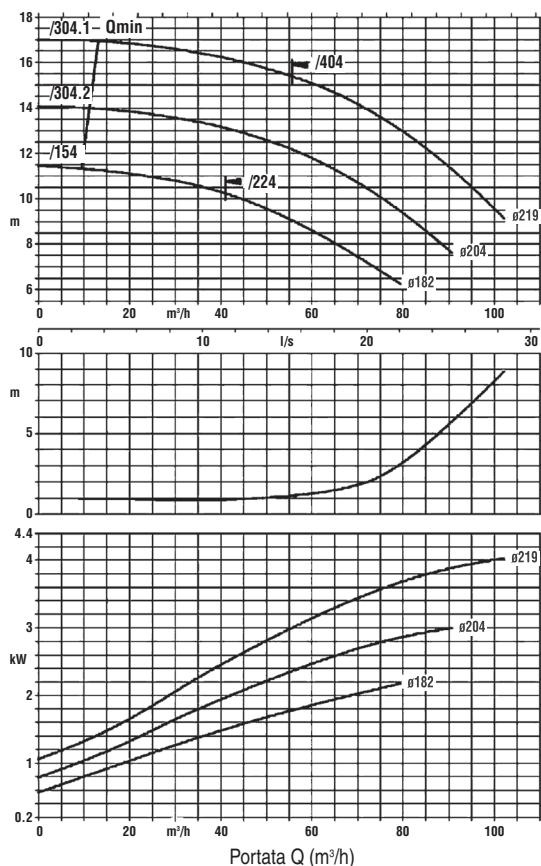


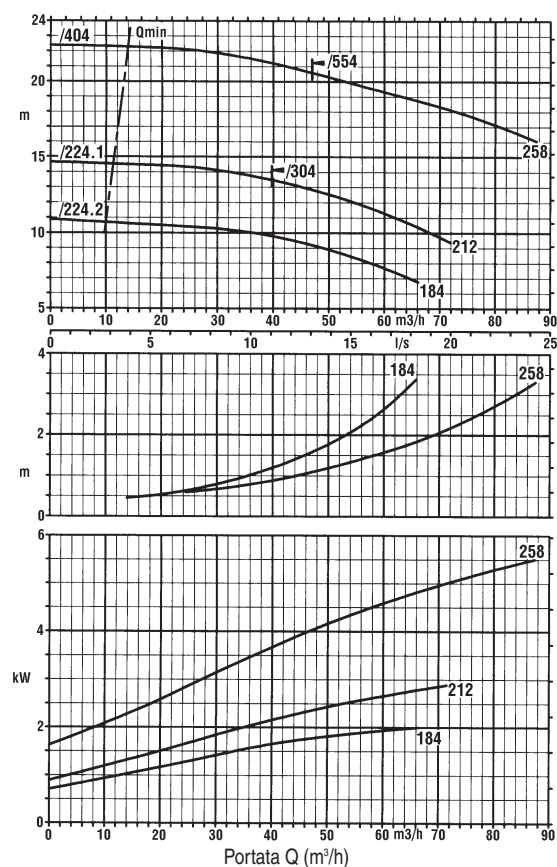
Etaline 80 - 210

Prevalenza  
H (m)

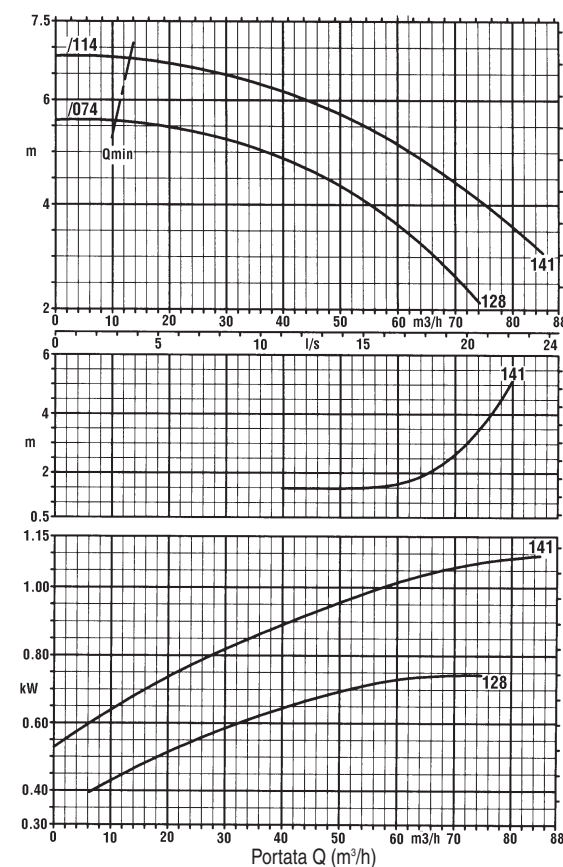
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)



**Curve Etaline (singole)**
**Motori a 4 poli**
**Etaline 80 - 250**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline 100 - 125**

**Diametri e interassi degli attacchi, dati elettrici, pesi**

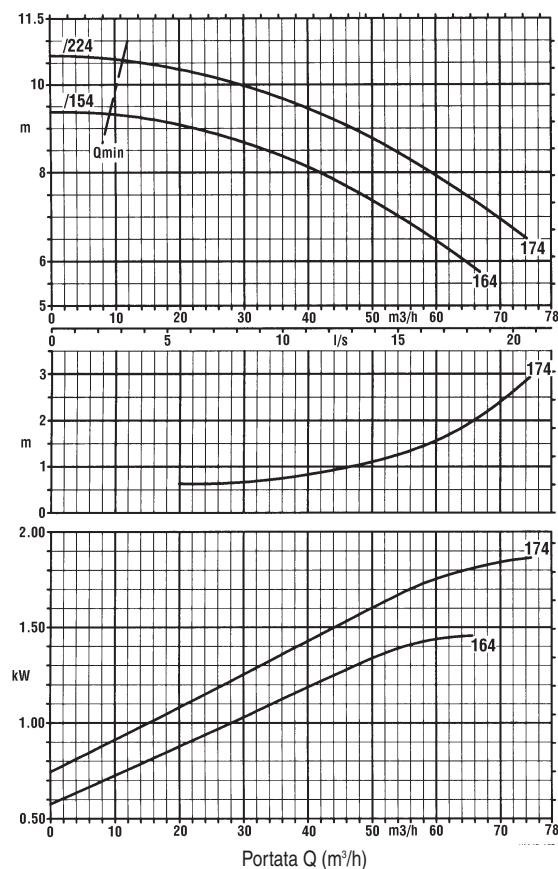
| Etaline      | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 65-160/024   | 65                           | 340 | 71   | 28               | 0,25         | 0,8               | 34   |
| 65-160/034   | 65                           | 340 | 71   | 28               | 0,37         | 1,1               | 35   |
| 65-160/054.2 | 65                           | 340 | 80   | 28               | 0,55         | 1,4               | 38   |
| 65-160/054.1 | 65                           | 340 | 80   | 28               | 0,55         | 1,4               | 38   |
| 65-160/074.3 | 65                           | 340 | 80   | 28               | 0,75         | 1,9               | 40   |
| 65-160/074.2 | 65                           | 340 | 80   | 28               | 0,75         | 1,9               | 40   |
| 65-160/074.1 | 65                           | 340 | 80   | 28               | 0,75         | 1,9               | 40   |
| 65-160/114.2 | 65                           | 340 | 90S  | 28               | 1,1          | 2,6               | 45   |
| 65-160/114.1 | 65                           | 340 | 90S  | 28               | 1,1          | 2,6               | 45   |
| 65-160/154   | 65                           | 340 | 90L  | 28               | 1,5          | 3,4               | 49   |
| 65-250/154   | 65                           | 475 | 90L  | 28               | 1,5          | 3,4               | 68   |
| 65-250/224.2 | 65                           | 475 | 100L | 28               | 2,2          | 4,7               | 77   |
| 65-250/224.1 | 65                           | 475 | 100L | 28               | 2,2          | 4,7               | 77   |
| 65-250/304.2 | 65                           | 475 | 100L | 28               | 3,0          | 6,4               | 81   |
| 65-250/304.1 | 65                           | 475 | 100L | 28               | 3,0          | 6,4               | 81   |
| 65-250/404   | 65                           | 475 | 112M | 28               | 4,0          | 8,2               | 87   |

| Etaline      | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 80-160/054   | 80                           | 360 | 80   | 28               | 0,55         | 1,4               | 44   |
| 80-160/074.2 | 80                           | 360 | 80   | 28               | 0,75         | 1,9               | 46   |
| 80-160/074.1 | 80                           | 360 | 80   | 28               | 0,75         | 1,9               | 46   |
| 80-160/114.2 | 80                           | 360 | 90S  | 28               | 1,1          | 2,6               | 50   |
| 80-160/114.1 | 80                           | 360 | 90S  | 28               | 1,1          | 2,6               | 50   |
| 80-160/154   | 80                           | 360 | 90L  | 28               | 1,5          | 3,4               | 55   |
| 80-210/154   | 80                           | 500 | 90L  | 28               | 1,5          | 3,4               | 67   |
| 80-210/224   | 80                           | 500 | 100L | 28               | 2,2          | 4,7               | 76   |
| 80-210/304.2 | 80                           | 500 | 100L | 28               | 3,0          | 6,4               | 80   |
| 80-210/304.1 | 80                           | 500 | 100L | 28               | 3,0          | 6,4               | 80   |
| 80-210/404   | 80                           | 500 | 112M | 28               | 4,0          | 8,2               | 86   |
| 80-250/224.2 | 80                           | 500 | 100L | 38               | 2,2          | 4,7               | 87   |
| 80-250/224.1 | 80                           | 500 | 100L | 38               | 2,2          | 4,7               | 87   |
| 80-250/304   | 80                           | 500 | 100L | 38               | 3,0          | 6,4               | 91   |
| 80-250/404   | 80                           | 500 | 112M | 38               | 4,0          | 8,2               | 97   |
| 80-250/554   | 80                           | 500 | 132S | 38               | 5,5          | 11,4              | 106  |
| 100-125/074  | 100                          | 450 | 80   | 28               | 0,75         | 1,9               | 54   |
| 100-125/114  | 100                          | 450 | 90S  | 28               | 1,1          | 2,6               | 59   |

Curve Etaline (singole)

Motori a 4 poli

Etaline 100 - 160

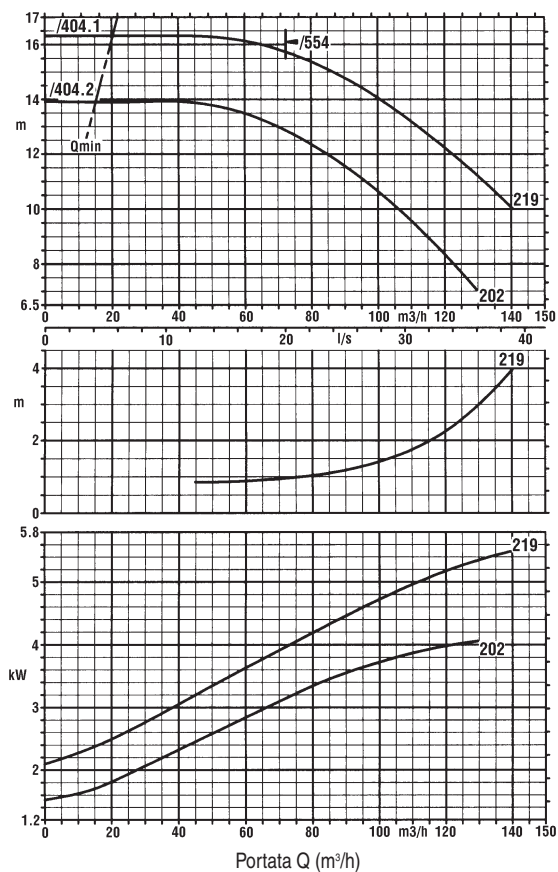


Prevalenza  
H (m)

NPSH  
(m)

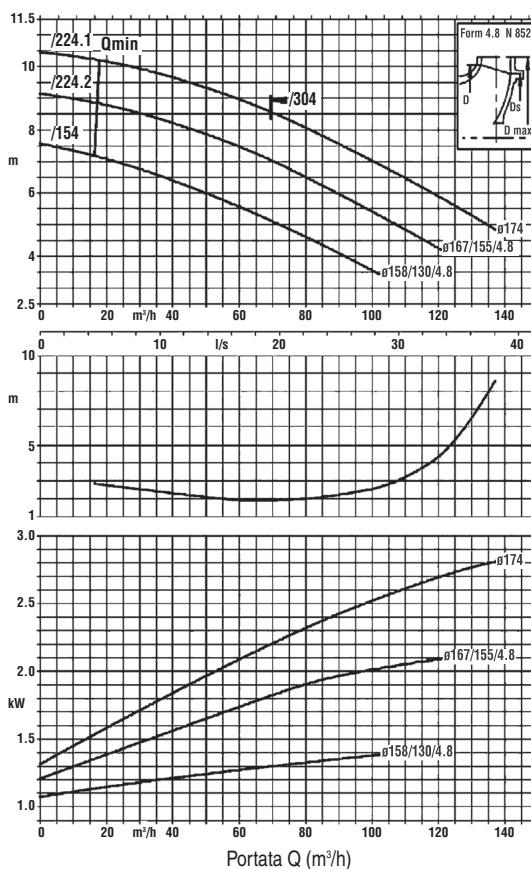
Potenza  
assorbita  
P<sub>2</sub> (kW)

Etaline 100 - 200

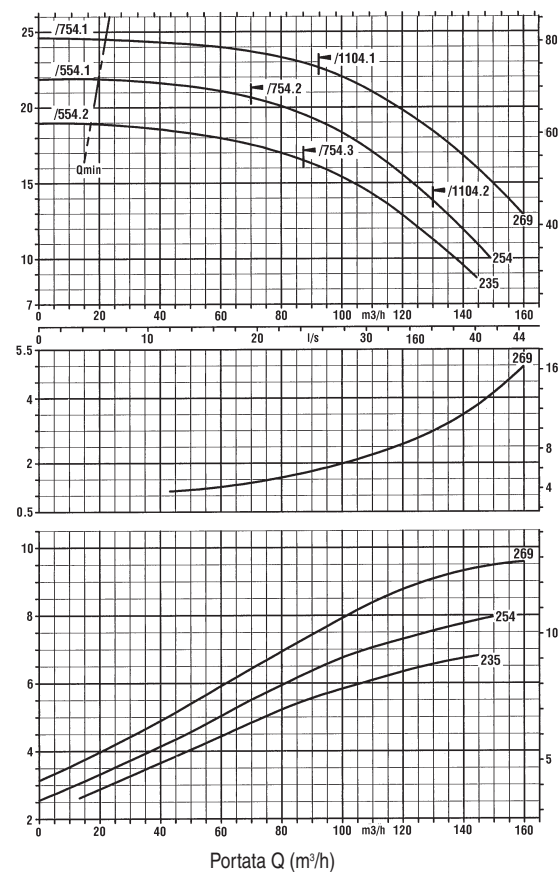


NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline 100 - 170



Etaline 100 - 250

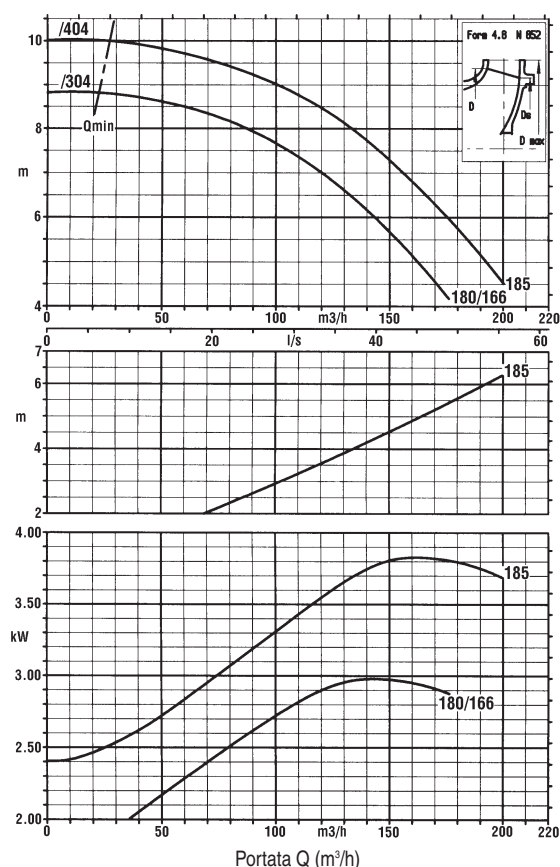


Prevalenza  
H (m)

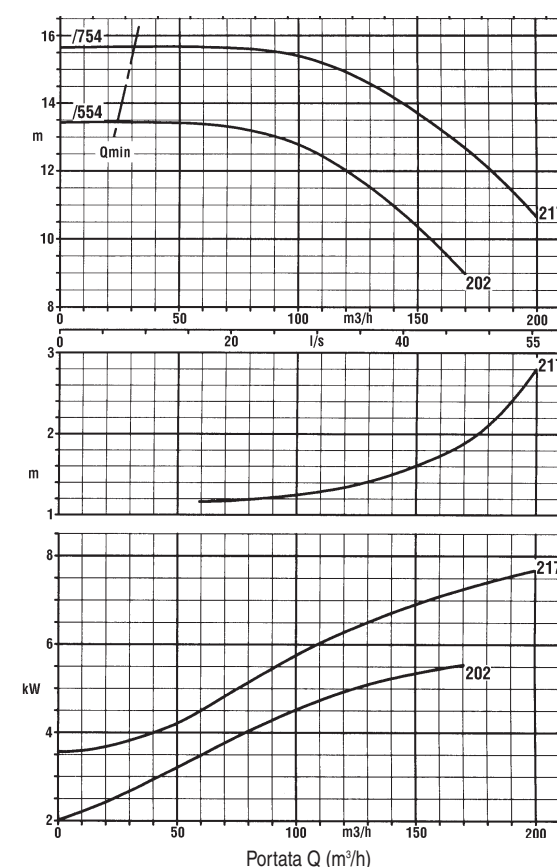
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)



**Curve Etaline (singole)**
**Motori a 4 poli**
**Etaline 125 - 160**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline 125 - 200**


Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

**2**
**Diametri degli attacchi, dati elettrici, pesi**

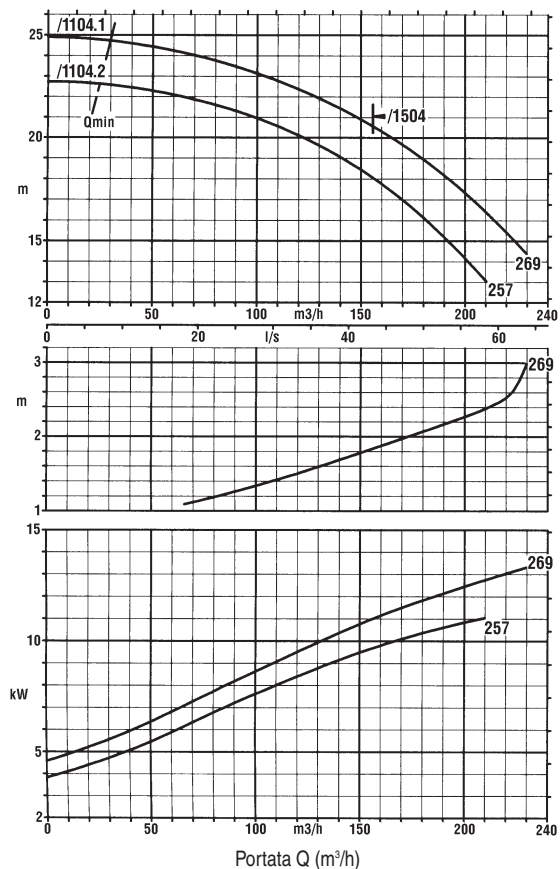
| Etaline       | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P <sub>2</sub> | Corr. Nom. 3~400V | Peso |
|---------------|------------------------------|-----|------|------------------|--------------------------|-------------------|------|
| Grandezza     | DN                           | mm  | M    | mm               | [kW]                     | In [A]            | Kg   |
| 100-160/154   | 100                          | 450 | 90L  | 28               | 1,5                      | 3,4               | 61   |
| 100-160/224   | 100                          | 450 | 100L | 28               | 2,2                      | 4,7               | 70   |
| 100-170/154   | 100                          | 450 | 90L  | 28               | 1,5                      | 3,4               | 72   |
| 100-170/224.2 | 100                          | 450 | 100L | 28               | 2,2                      | 4,7               | 81   |
| 100-170/224.1 | 100                          | 450 | 100L | 28               | 2,2                      | 4,7               | 81   |
| 100-170/304   | 100                          | 450 | 100L | 28               | 3,0                      | 6,4               | 85   |
| 100-200/404.2 | 100                          | 550 | 112M | 38               | 4,0                      | 8,2               | 126  |
| 100-200/404.1 | 100                          | 550 | 112M | 38               | 4,0                      | 8,2               | 126  |
| 100-200/554   | 100                          | 550 | 132S | 38               | 5,5                      | 11,4              | 135  |

| Etaline        | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P <sub>2</sub> | Corr. Nom. 3~400V | Peso |
|----------------|------------------------------|-----|------|------------------|--------------------------|-------------------|------|
| Grandezza      | DN                           | mm  | M    | mm               | [kW]                     | In [A]            | Kg   |
| 100-250/554.2  | 100                          | 550 | 132S | 38               | 5,5                      | 11,4              | 138  |
| 100-250/554.1  | 100                          | 550 | 132S | 38               | 5,5                      | 11,4              | 138  |
| 100-250/754.3  | 100                          | 550 | 132M | 38               | 7,5                      | 15,2              | 157  |
| 100-250/754.2  | 100                          | 550 | 132M | 38               | 7,5                      | 15,2              | 157  |
| 100-250/754.1  | 100                          | 550 | 132M | 38               | 7,5                      | 15,2              | 157  |
| 100-250/1104.2 | 100                          | 550 | 160M | 38               | 11,0                     | 21,5              | 182  |
| 100-250/1104.1 | 100                          | 550 | 160M | 38               | 11,0                     | 21,5              | 182  |
| 125-160/304    | 125                          | 620 | 100L | 38               | 3,0                      | 6,4               | 152  |
| 125-160/404    | 125                          | 620 | 112M | 38               | 4,0                      | 8,2               | 158  |
| 125-200/554    | 125                          | 620 | 132S | 38               | 5,5                      | 11,4              | 163  |
| 125-200/754    | 125                          | 620 | 132M | 38               | 7,5                      | 15,2              | 182  |

Curve Etaline (singole)

Motori a 4 poli

Etaline 125 - 250

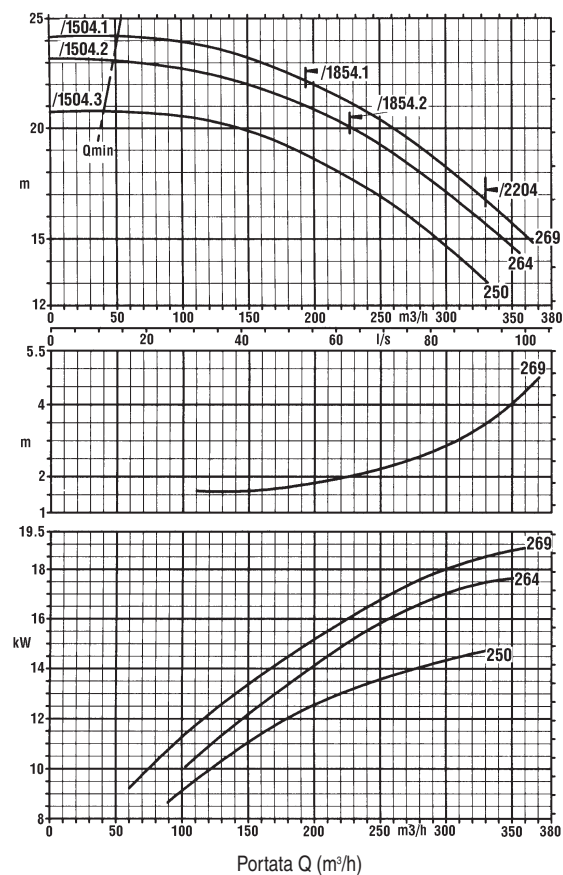


Prevalenza  
H (m)

NPSH  
(m)

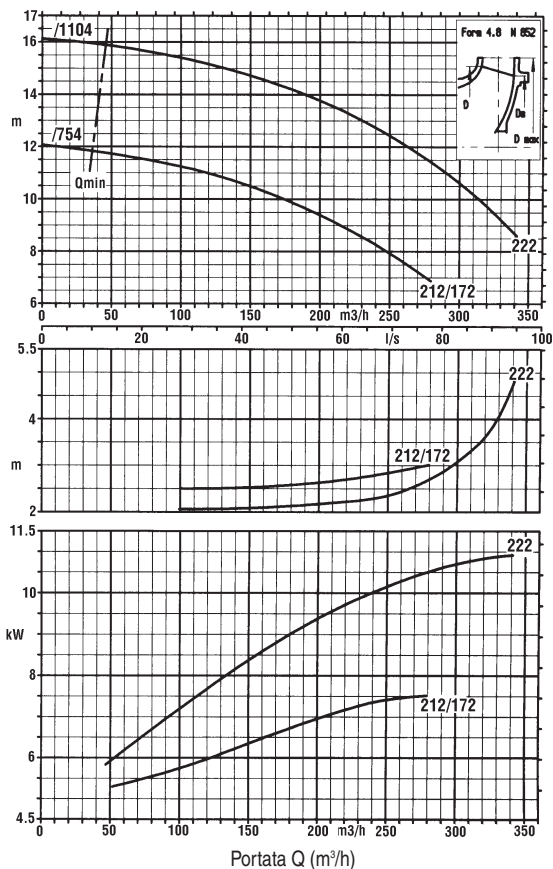
Potenza  
assorbita  
P<sub>2</sub> (kW)

Etaline 150 - 250

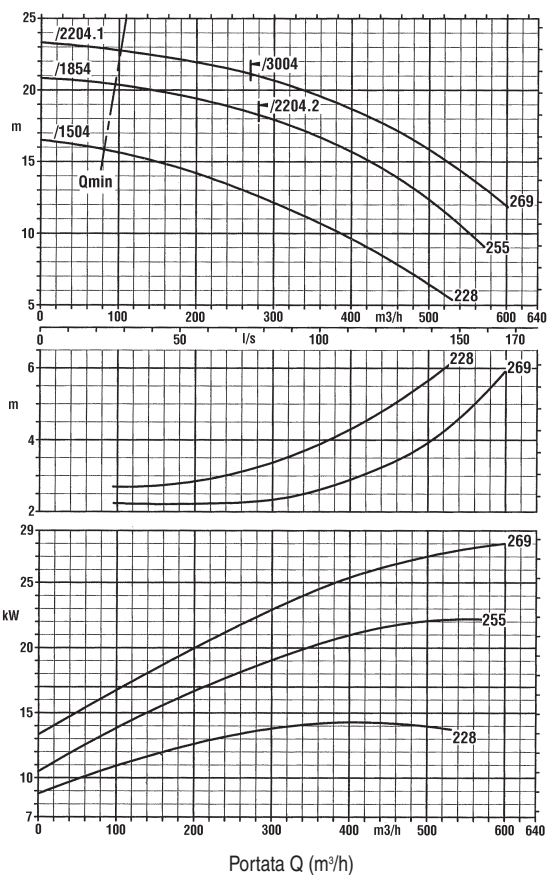


NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline 150 - 200



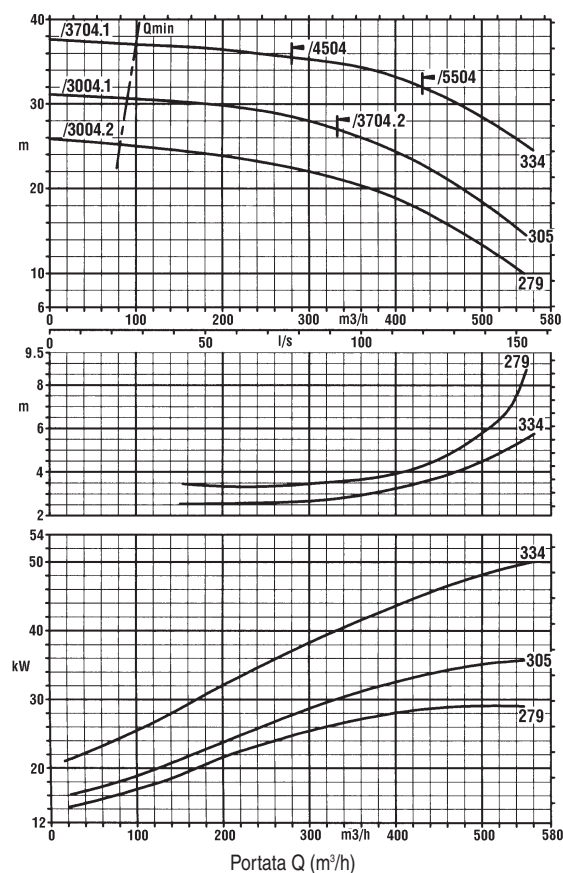
Etaline 200 - 250



Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

**Curve Etaline (singole)**
**Motori a 4 poli**
**Etaline 200 - 315**

 Prevalenza  
H (m)

 NPSH  
(m)

 Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

**Diametri degli attacchi, interassi, dati elettrici, pesi**

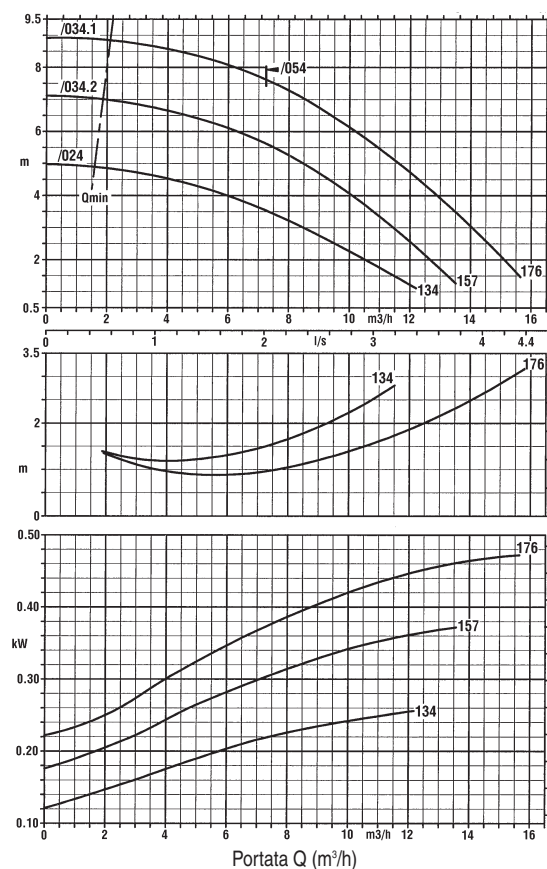
| Etaline        | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|----------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza      | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 125-250/1104.2 | 125                          | 620 | 160M | 38               | 11,0         | 21,5              | 215  |
| 125-250/1104.1 | 125                          | 620 | 160M | 38               | 11,0         | 21,5              | 215  |
| 125-250/1504   | 125                          | 620 | 160L | 38               | 15,0         | 28,5              | 245  |
| 150-200/754    | 150                          | 690 | 132M | 38               | 7,5          | 15,2              | 217  |
| 150-200/1104   | 150                          | 690 | 160M | 38               | 11,0         | 21,5              | 242  |
| 150-250/1504.3 | 150                          | 700 | 160L | 38               | 15,0         | 28,5              | 265  |
| 150-250/1504.2 | 150                          | 700 | 160L | 38               | 15,0         | 28,5              | 265  |
| 150-250/1504.1 | 150                          | 700 | 160L | 38               | 15,0         | 28,5              | 265  |
| 150-250/1854.2 | 150                          | 700 | 180M | 38               | 18,5         | 35,0              | 310  |
| 150-250/1854.1 | 150                          | 700 | 180M | 38               | 18,5         | 35,0              | 310  |
| 150-250/2204   | 150                          | 700 | 180L | 38               | 22,0         | 41,5              | 327  |

| Etaline        | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|----------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza      | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 200-250/1504   | 200                          | 800 | 160L | 38               | 15,0         | 28,5              | 319  |
| 200-250/1854   | 200                          | 800 | 180M | 38               | 18,5         | 35,0              | 365  |
| 200-250/2204.2 | 200                          | 800 | 180L | 38               | 22,0         | 41,5              | 382  |
| 200-250/2204.1 | 200                          | 800 | 180L | 38               | 22,0         | 41,5              | 382  |
| 200-250/3004   | 200                          | 800 | 200L | 38               | 30,0         | 56,0              | 453  |
| 200-315/3004.2 | 200                          | 820 | 200L | 58               | 30,0         | 56,0              | 460  |
| 200-315/3004.1 | 200                          | 820 | 200L | 48               | 30,0         | 56,0              | 460  |
| 200-315/3704.2 | 200                          | 820 | 225S | 48               | 37,0         | 68,0              | 551  |
| 200-315/3704.1 | 200                          | 820 | 225S | 48               | 37,0         | 68,0              | 551  |
| 200-315/4504   | 200                          | 820 | 225M | 48               | 45,0         | 81,0              | 586  |
| 200-315/5504   | 200                          | 820 | 250M | 48               | 55,0         | 100,0             | 670  |

Curve Etaline Z (gemellari)

Motori a 4 poli

Etaline Z 32 - 160 funzionamento singolo

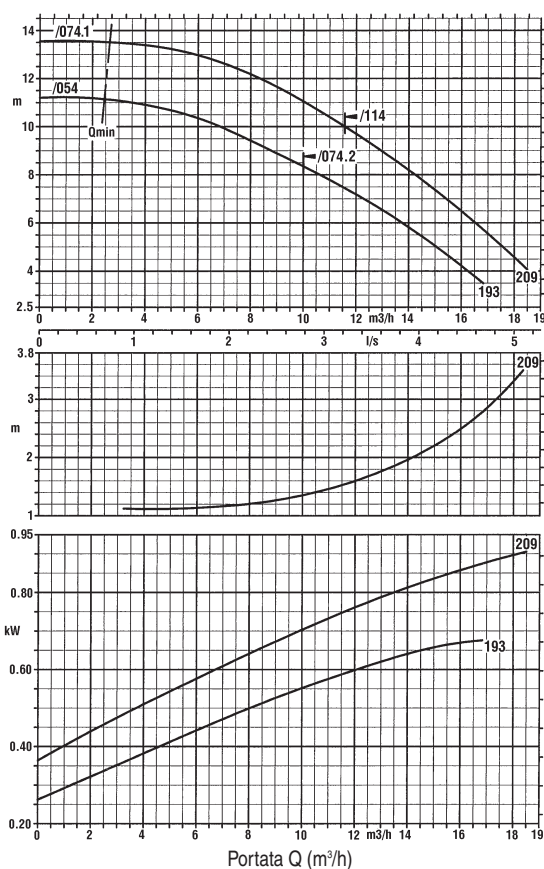


Prevalenza  
H (m)

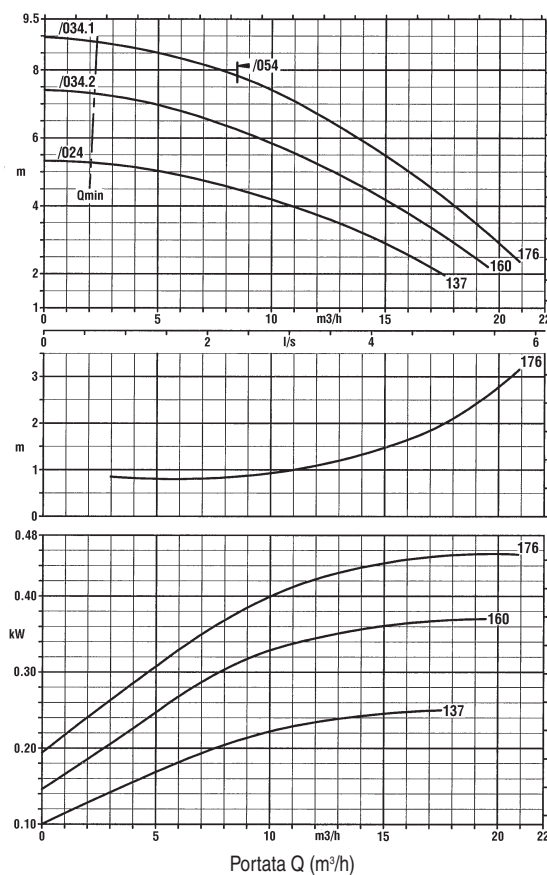
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

Etaline Z 32 - 200 funzionamento singolo



Etaline Z 40 - 160 funzionamento singolo

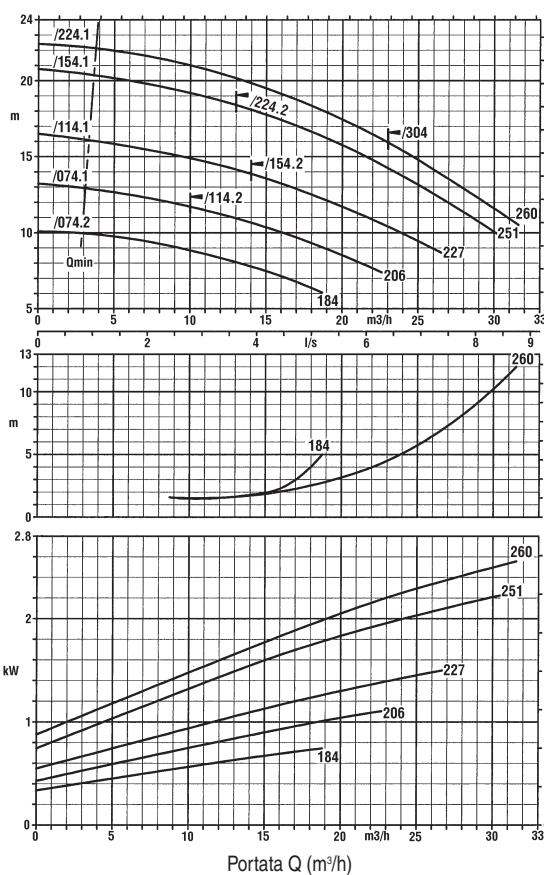


Prevalenza  
H (m)

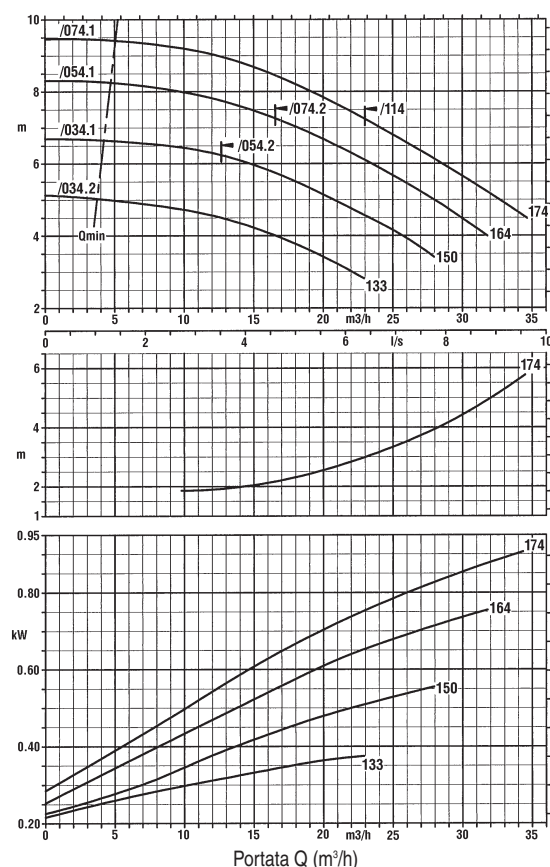
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

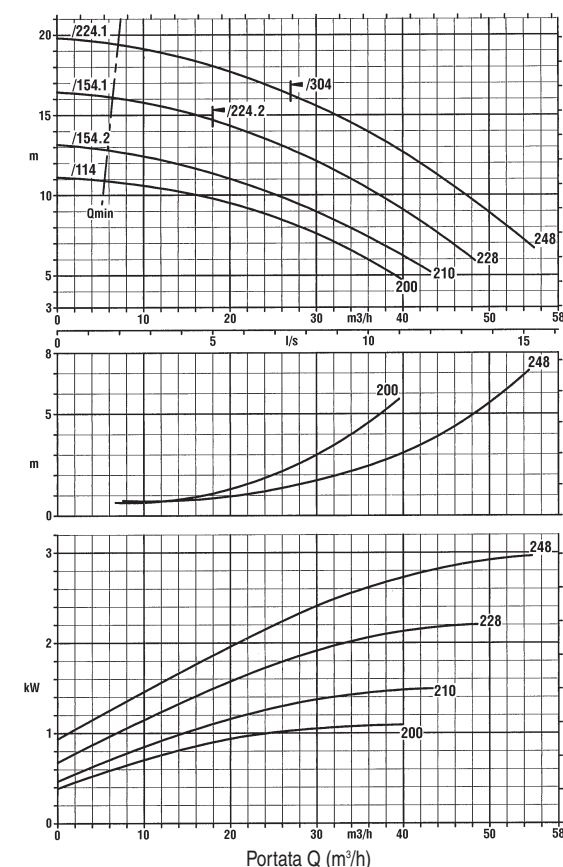
Etaline Z 40 - 250 funzionamento singolo



NPSH + 0,5 m (maggiorazione di sicurezza)

**Curve Etaline Z (gemellari)**
**Motori a 4 poli**
**Etaline Z 50 - 160 funzionamento singolo**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline Z 50 - 250 funzionamento singolo**

**2**
**Diametri e interassi degli attacchi, dati elettrici, pesi**

| Etaline Z    | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 32-160/024   | 32                           | 320 | 71   | 28               | 0,25         | 0,81              | 68   |
| 32-160/034.2 | 32                           | 320 | 71   | 28               | 0,37         | 1,16              | 71   |
| 32-160/034.1 | 32                           | 320 | 71   | 28               | 0,37         | 1,16              | 71   |
| 32-160/054   | 32                           | 320 | 80   | 28               | 0,55         | 1,45              | 76   |
| 32-200/054   | 32                           | 380 | 80   | 28               | 0,55         | 1,45              | 94   |
| 32-200/074.2 | 32                           | 380 | 80   | 28               | 0,75         | 2,0               | 96   |
| 32-200/074.1 | 32                           | 380 | 80   | 28               | 0,75         | 2,0               | 96   |
| 32-200/114   | 32                           | 380 | 90 S | 28               | 1,10         | 2,8               | 104  |
| 40-160/024   | 40                           | 320 | 71   | 28               | 0,25         | 0,81              | 109  |
| 40-160/034.2 | 40                           | 320 | 71   | 28               | 0,37         | 1,16              | 112  |
| 40-160/034.1 | 40                           | 320 | 71   | 28               | 0,37         | 1,16              | 112  |
| 40-160/054   | 40                           | 320 | 80   | 28               | 0,55         | 1,45              | 117  |
| 40-250/074.2 | 40                           | 440 | 80   | 28               | 0,75         | 2,0               | 126  |
| 40-250/074.1 | 40                           | 440 | 80   | 28               | 0,75         | 2,0               | 126  |
| 40-250/114.2 | 40                           | 440 | 90 S | 28               | 1,10         | 2,8               | 134  |
| 40-250/114.1 | 40                           | 440 | 90 S | 28               | 1,10         | 2,8               | 134  |

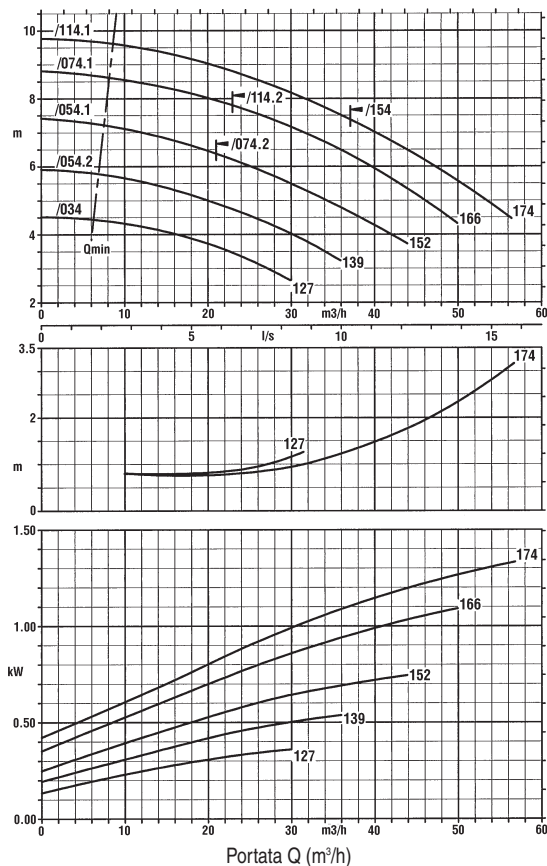
| Etaline Z    | Diametro e distanza attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 40-250/154.2 | 40                           | 440 | 90 L  | 28               | 1,50         | 3,6               | 134  |
| 40-250/154.1 | 40                           | 440 | 90 L  | 28               | 1,50         | 3,6               | 134  |
| 40-250/224.2 | 40                           | 440 | 100 L | 28               | 2,20         | 5,2               | 149  |
| 40-250/224.1 | 40                           | 440 | 100 L | 28               | 2,20         | 5,2               | 149  |
| 40-250/304   | 40                           | 440 | 100 L | 28               | 3,00         | 6,8               | 159  |
| 50-160/034.2 | 50                           | 340 | 71    | 28               | 0,37         | 1,16              | 83   |
| 50-160/034.1 | 50                           | 340 | 71    | 28               | 0,37         | 1,16              | 83   |
| 50-160/054.2 | 50                           | 340 | 80    | 28               | 0,55         | 1,45              | 88   |
| 50-160/054.1 | 50                           | 340 | 80    | 28               | 0,55         | 1,45              | 88   |
| 50-160/074.2 | 50                           | 340 | 80    | 28               | 0,75         | 2,0               | 90   |
| 50-160/074.1 | 50                           | 340 | 80    | 28               | 0,75         | 2,0               | 90   |
| 50-160/114   | 50                           | 340 | 90 S  | 28               | 1,10         | 2,8               | 110  |
| 50-250/114   | 50                           | 440 | 90 S  | 28               | 1,10         | 2,8               | 141  |
| 50-250/154.2 | 50                           | 440 | 90 L  | 28               | 1,50         | 3,6               | 143  |
| 50-250/154.1 | 50                           | 440 | 90 L  | 28               | 1,50         | 3,6               | 143  |
| 50-250/224.2 | 50                           | 440 | 100 L | 28               | 2,20         | 5,2               | 182  |
| 50-250/224.1 | 50                           | 440 | 100 L | 28               | 2,20         | 5,2               | 182  |
| 50-250/304   | 50                           | 440 | 100 L | 28               | 3,00         | 6,8               | 194  |



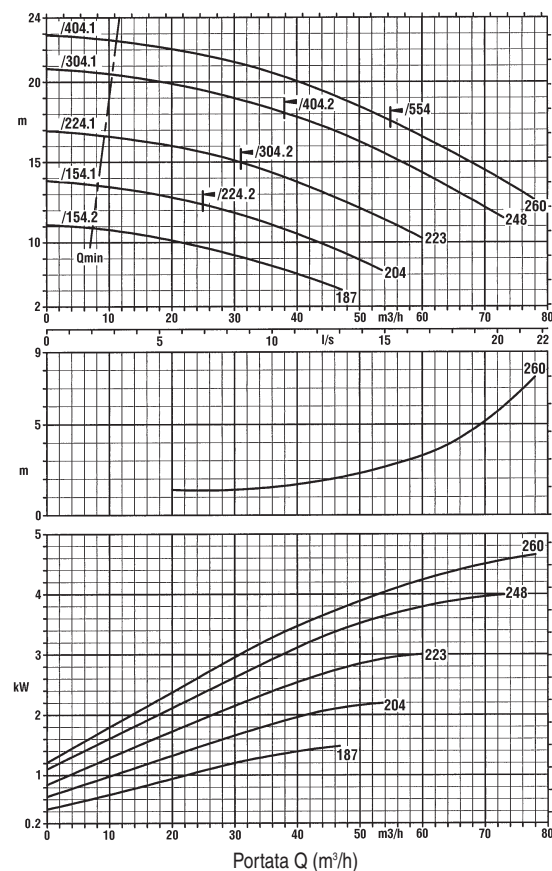
## Curve Etaline Z (gemellari)

## Motori a 4 poli

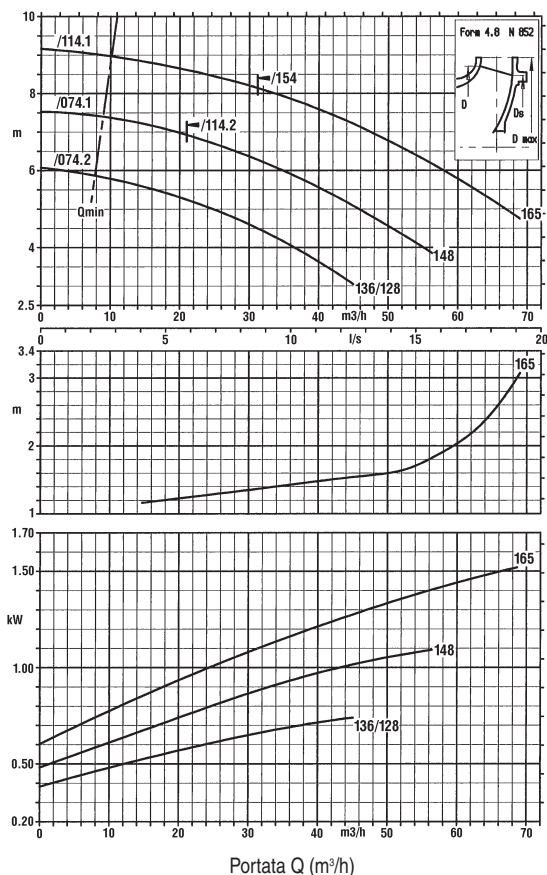
**Etaline Z 65 - 160** funzionamento singolo



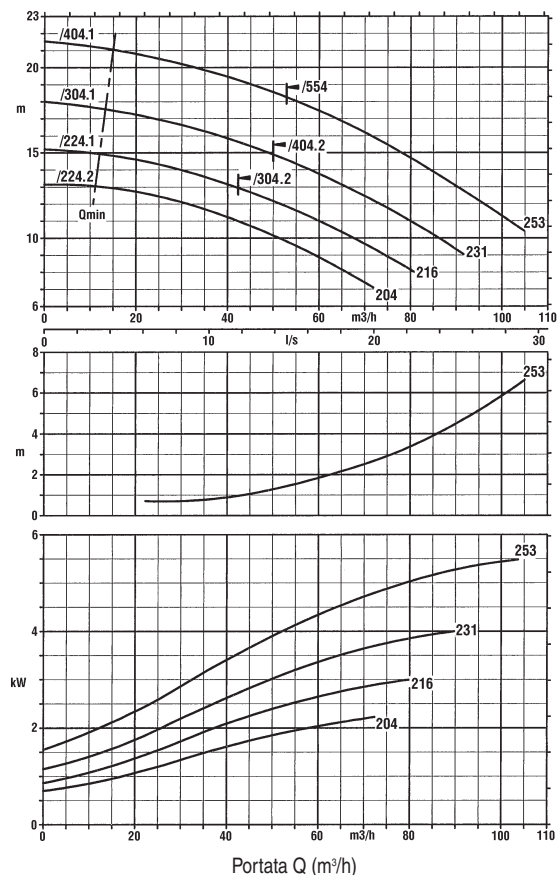
**Etaline Z 65 - 250** funzionamento singolo



**Etaline Z 80 - 160** funzionamento singolo



**Etaline Z 80 - 250** funzionamento singolo

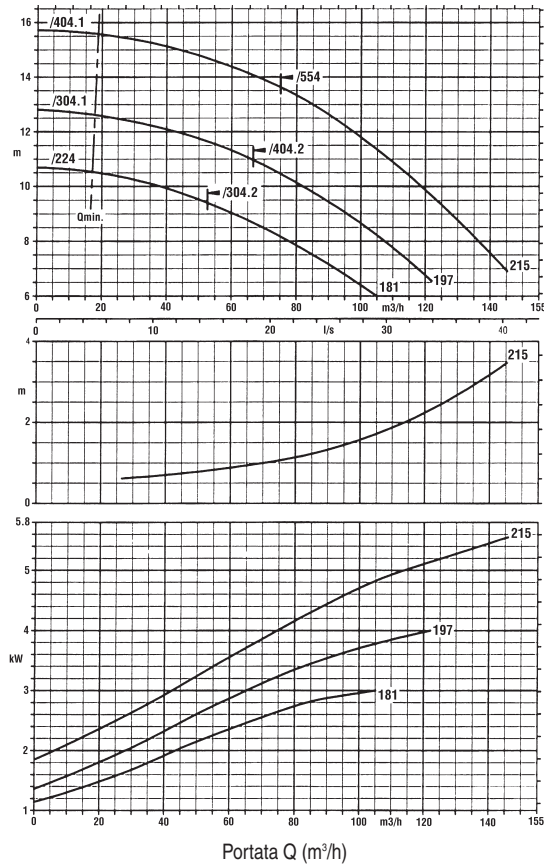


NPSH + 0,5 m (maggiorazione di sicurezza)

Curve Etaline Z (gemellari)

Motori a 4 poli

Etaline Z 100 - 200 funzionamento singolo



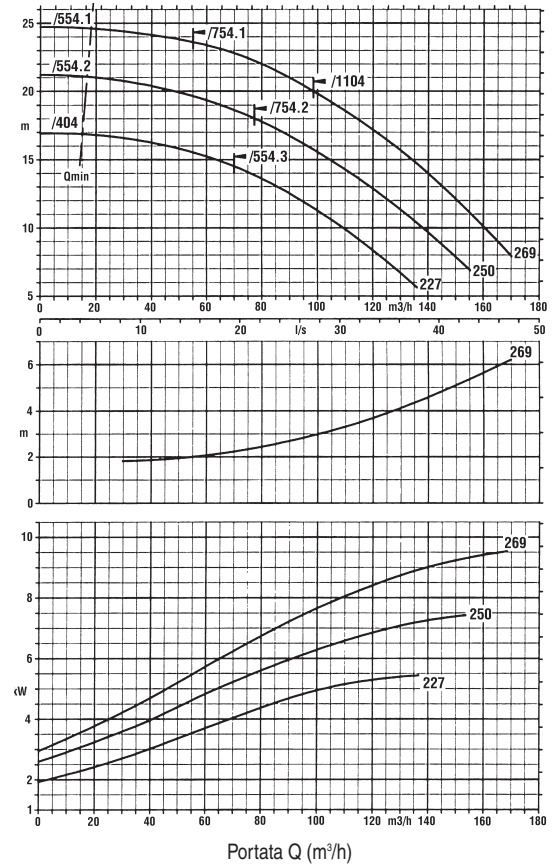
NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline Z 100 - 250 funzionamento singolo

Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)



Diametri e interassi degli attacchi, dati elettrici, pesi

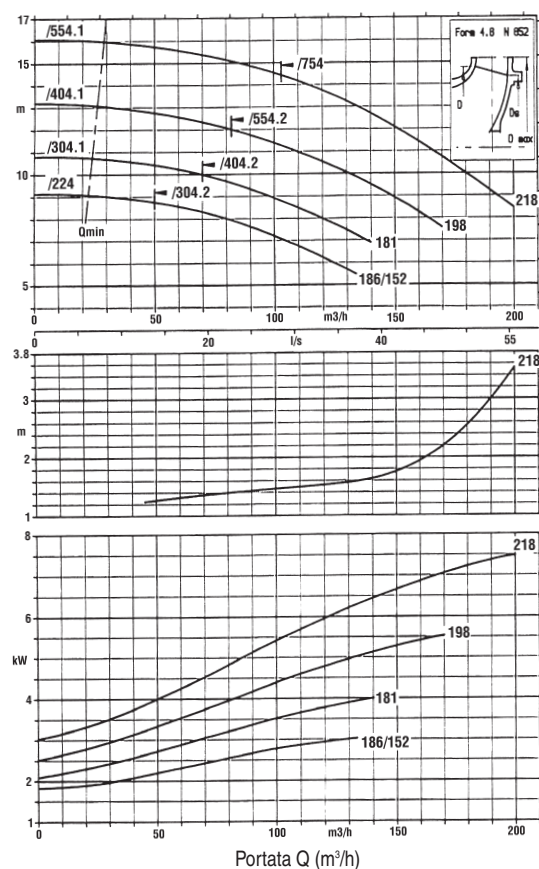
| Etaline Z    | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza    | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 65-160/034   | 65                            | 340 | 71    | 28               | 0,37         | 1,16              | 86   |
| 65-160/054.2 | 65                            | 340 | 80    | 28               | 0,55         | 1,45              | 91   |
| 65-160/054.1 | 65                            | 340 | 80    | 28               | 0,55         | 1,45              | 91   |
| 65-160/074.2 | 65                            | 340 | 80    | 28               | 0,75         | 2,0               | 93   |
| 65-160/074.1 | 65                            | 340 | 80    | 28               | 0,75         | 2,0               | 93   |
| 65-160/114.2 | 65                            | 340 | 90 S  | 28               | 1,10         | 2,8               | 101  |
| 65-160/114.1 | 65                            | 340 | 90 S  | 28               | 1,10         | 2,8               | 101  |
| 65-160/154   | 65                            | 340 | 90 L  | 28               | 1,50         | 3,6               | 106  |
| 65-250/154.2 | 65                            | 475 | 90 L  | 28               | 1,50         | 3,6               | 154  |
| 65-250/154.1 | 65                            | 475 | 90 L  | 28               | 1,50         | 3,6               | 154  |
| 65-250/224.2 | 65                            | 475 | 100 L | 28               | 2,20         | 5,2               | 164  |
| 65-250/224.1 | 65                            | 475 | 100 L | 28               | 2,20         | 5,2               | 164  |
| 65-250/304.2 | 65                            | 475 | 100 L | 28               | 3,00         | 6,8               | 176  |
| 65-250/304.1 | 65                            | 475 | 100 L | 28               | 3,00         | 6,8               | 176  |
| 65-250/404.2 | 65                            | 475 | 112M  | 28               | 4,00         | 9,0               | 194  |
| 65-250/404.1 | 65                            | 475 | 112M  | 28               | 4,00         | 9,0               | 194  |
| 65-250/554   | 65                            | 475 | 132 S | 28               | 5,50         | 11,4              | 202  |
| 80-160/074.2 | 80                            | 360 | 80    | 28               | 0,75         | 2,0               | 80   |
| 80-160/074.1 | 80                            | 360 | 80    | 28               | 0,75         | 2,0               | 80   |
| 80-160/114.2 | 80                            | 360 | 90 S  | 28               | 1,10         | 2,8               | 86   |
| 80-160/114.1 | 80                            | 360 | 90 S  | 28               | 1,10         | 2,8               | 86   |
| 80-160/154   | 80                            | 360 | 90 L  | 28               | 1,50         | 3,6               | 86   |

| Etaline Z     | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|---------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza     | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 80-250/224.2  | 80                            | 500 | 100 L | 38               | 2,2          | 5,2               | 156  |
| 80-250/224.1  | 80                            | 500 | 100 L | 38               | 2,2          | 5,2               | 156  |
| 80-250/304.2  | 80                            | 500 | 100 L | 38               | 3,0          | 6,8               | 165  |
| 80-250/304.1  | 80                            | 500 | 100 L | 38               | 3,0          | 6,8               | 165  |
| 80-250/404.2  | 80                            | 500 | 112M  | 38               | 4,0          | 9,0               | 181  |
| 80-250/404.1  | 80                            | 500 | 112M  | 38               | 4,0          | 9,0               | 181  |
| 80-250/554    | 80                            | 500 | 132 S | 38               | 5,5          | 11,4              | 189  |
| 100-200/224   | 100                           | 550 | 100 L | 38               | 2,20         | 5,2               | 205  |
| 100-200/304.2 | 100                           | 550 | 100 L | 38               | 3,00         | 6,8               | 215  |
| 100-200/304.1 | 100                           | 550 | 112M  | 38               | 3,00         | 6,8               | 215  |
| 100-200/404.2 | 100                           | 550 | 112M  | 38               | 4,00         | 9,0               | 229  |
| 100-200/404.1 | 100                           | 550 | 112M  | 38               | 4,00         | 9,0               | 229  |
| 100-200/554   | 100                           | 550 | 132 S | 38               | 5,50         | 11,4              | 247  |
| 100-250/404   | 100                           | 550 | 112M  | 38               | 4,0          | 9,0               | 258  |
| 100-250/554.3 | 100                           | 550 | 132 S | 38               | 5,5          | 11,4              | 276  |
| 100-250/554.2 | 100                           | 550 | 132 S | 38               | 5,5          | 11,4              | 276  |
| 100-250/554.1 | 100                           | 550 | 132 S | 38               | 5,5          | 11,4              | 276  |
| 100-250/754.2 | 100                           | 550 | 132M  | 38               | 7,5          | 15,4              | 322  |
| 100-250/754.1 | 100                           | 550 | 132M  | 38               | 7,5          | 15,4              | 322  |
| 100-250/1104  | 100                           | 550 | 160M  | 38               | 11,0         | 22,1              | 380  |

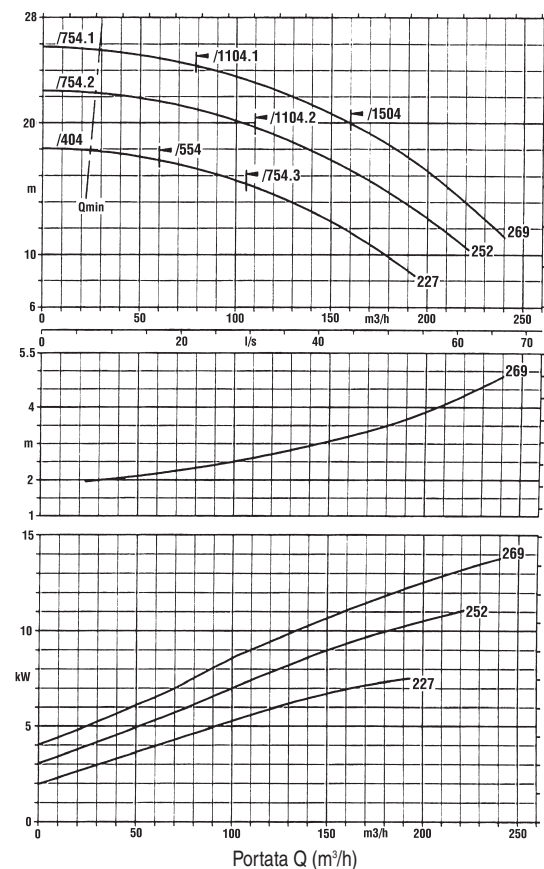
## Curve Etaline Z (gemellari)

## Motori a 4 poli

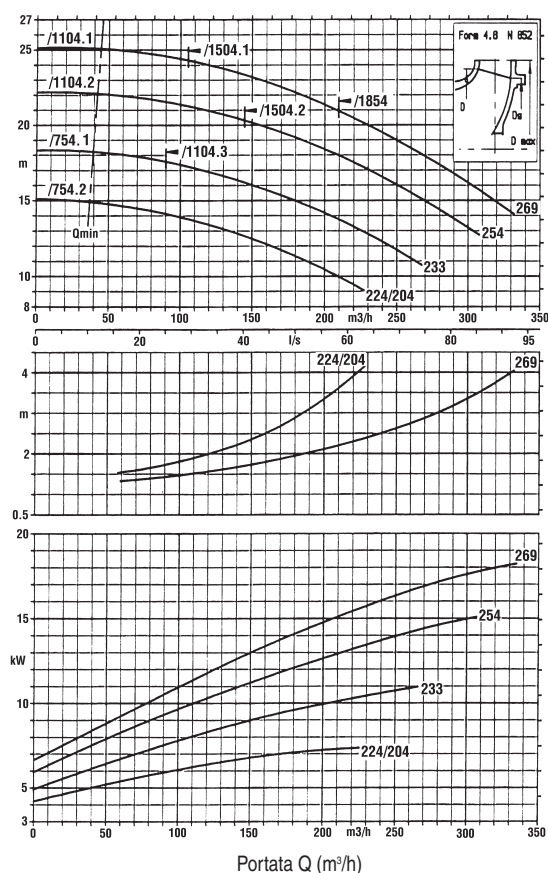
**Etaline Z 125 - 200** funzionamento singolo



**Etaline Z 125 - 250** funzionamento singolo

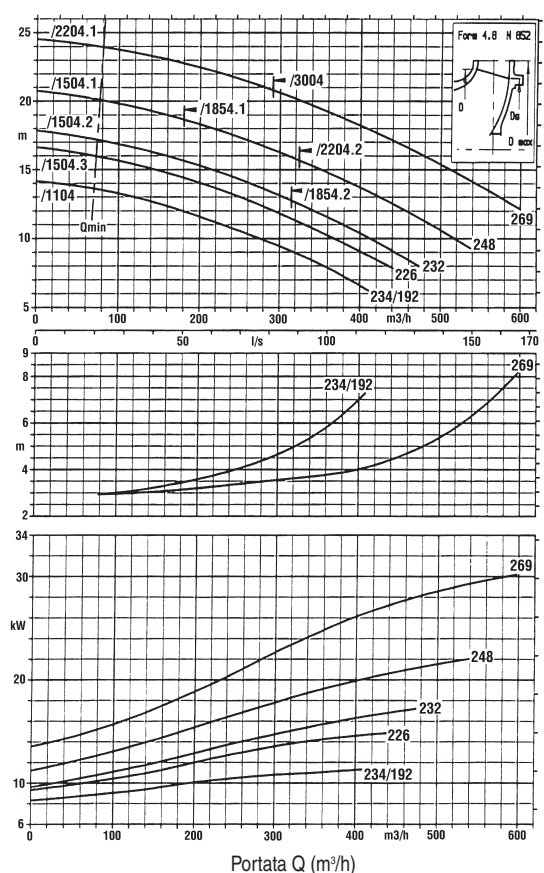


**Etaline Z 150 - 250** funzionamento singolo



NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline Z 200 - 250** funzionamento singolo



Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

Prevalenza  
H (m)

NPSH  
(m)

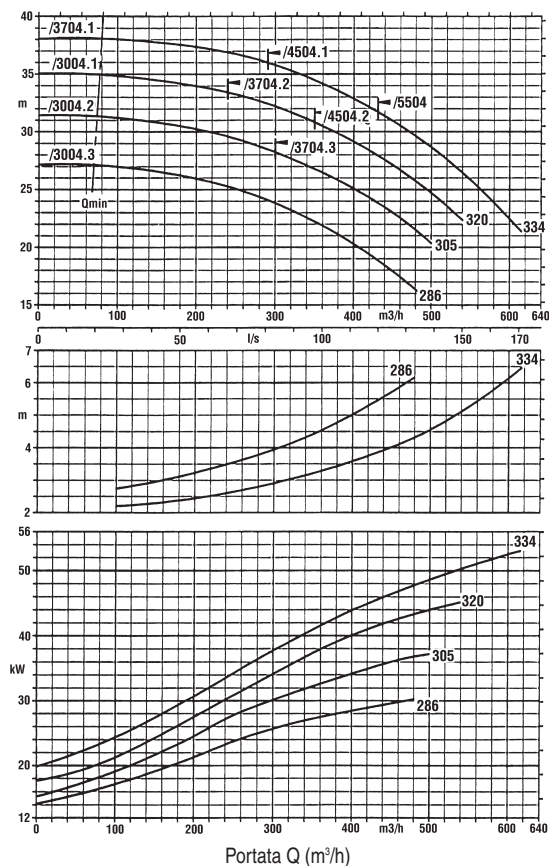
Potenza  
assorbita  
P<sub>2</sub> (kW)



# Curve Etaline Z (gemellari)

Motori a 4 poli

## Etaline Z 200 - 315 funzionamento singolo



Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

## Diametri e interassi degli attacchi, dati elettrici, pesi

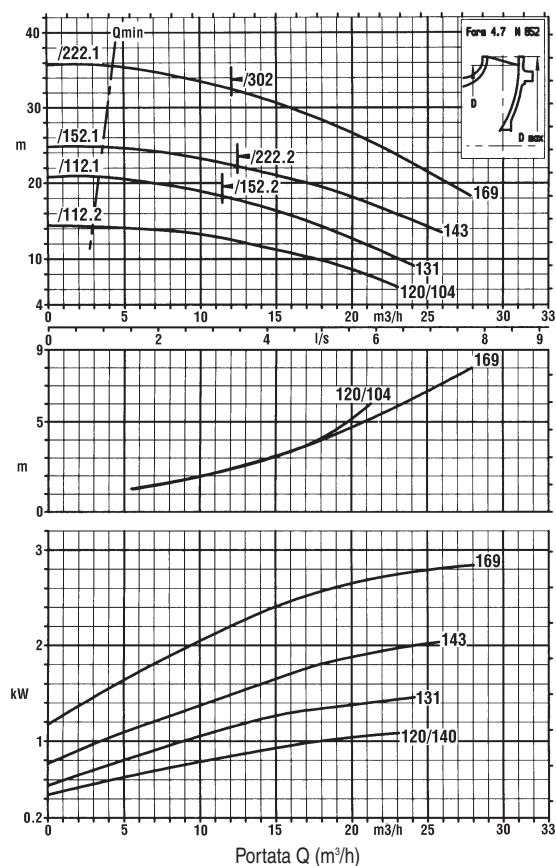
| Etaline Z      | Diametro e distanza attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P <sub>2</sub> | Corr. Nom. 3~400V In [A] | Peso |
|----------------|------------------------------|-----|-------|------------------|--------------------------|--------------------------|------|
| Grandezza      | DN                           | mm  | M     | mm               | [kW]                     |                          | Kg   |
| 125-200/224    | 125                          | 620 | 100 L | 28               | 2,20                     | 5,2                      | 241  |
| 125-200/304.2  | 125                          | 620 | 100 L | 28               | 3,00                     | 6,8                      | 251  |
| 125-200/304.1  | 125                          | 620 | 100 L | 28               | 3,00                     | 6,8                      | 251  |
| 125-200/404.2  | 125                          | 620 | 112M  | 28               | 4,00                     | 9,0                      | 265  |
| 125-200/404.1  | 125                          | 620 | 112M  | 28               | 4,00                     | 9,0                      | 265  |
| 125-200/554.2  | 125                          | 620 | 132 S | 28               | 5,50                     | 11,4                     | 283  |
| 125-200/554.1  | 125                          | 620 | 132 S | 28               | 5,50                     | 11,4                     | 283  |
| 125-200/754    | 125                          | 620 | 132M  | 28               | 7,50                     | 15,4                     | 329  |
| 125-250/404    | 125                          | 620 | 112M  | 38               | 4,00                     | 9,0                      | 302  |
| 125-250/554    | 125                          | 620 | 132 S | 38               | 5,50                     | 11,4                     | 320  |
| 125-250/754.3  | 125                          | 620 | 132M  | 38               | 7,50                     | 15,4                     | 360  |
| 125-250/754.2  | 125                          | 620 | 132M  | 38               | 7,50                     | 15,4                     | 360  |
| 125-250/754.1  | 125                          | 620 | 132M  | 38               | 7,50                     | 15,4                     | 360  |
| 125-250/1104.2 | 125                          | 620 | 160M  | 38               | 11,00                    | 22,1                     | 404  |
| 125-250/1104.1 | 125                          | 620 | 160M  | 38               | 11,00                    | 22,1                     | 404  |
| 125-250/1504   | 125                          | 620 | 160 L | 38               | 15,00                    | 28,5                     | 438  |
| 150-250/754.2  | 150                          | 700 | 132M  | 38               | 7,50                     | 15,4                     | 462  |
| 150-250/754.1  | 150                          | 700 | 132M  | 38               | 7,50                     | 15,4                     | 462  |
| 150-250/1104.3 | 150                          | 700 | 160M  | 38               | 11,00                    | 22,1                     | 506  |
| 150-250/1104.2 | 150                          | 700 | 160M  | 38               | 11,00                    | 22,1                     | 506  |
| 150-250/1104.1 | 150                          | 700 | 160M  | 38               | 11,00                    | 22,1                     | 506  |

| Etaline Z      | Diametro e distanza attacchi |      |       | Diam. Ten. Mecc. | Pot. Nom. P <sub>2</sub> | Corr. Nom. 3~400V In [A] | Peso |
|----------------|------------------------------|------|-------|------------------|--------------------------|--------------------------|------|
| Grandezza      | DN                           | mm   | M     | mm               | [kW]                     |                          | Kg   |
| 150-250/1504.2 | 150                          | 700  | 160 L | 38               | 15,00                    | 28,5                     | 542  |
| 150-250/1504.1 | 150                          | 700  | 160 L | 38               | 15,00                    | 28,5                     | 542  |
| 150-250/1854   | 150                          | 700  | 180M  | 38               | 18,50                    | 35,0                     | 544  |
| 200-250/1104   | 200                          | 1000 | 160M  | 38               | 11,00                    | 22,1                     | 506  |
| 200-250/1504.3 | 200                          | 1000 | 160 L | 38               | 15,00                    | 28,5                     | 582  |
| 200-250/1504.2 | 200                          | 1000 | 160 L | 38               | 15,00                    | 28,5                     | 582  |
| 200-250/1504.1 | 200                          | 1000 | 160 L | 38               | 15,00                    | 28,5                     | 582  |
| 200-250/1854.2 | 200                          | 1000 | 180M  | 38               | 18,50                    | 35,0                     | 738  |
| 200-250/1854.1 | 200                          | 1000 | 180M  | 38               | 18,50                    | 35,0                     | 738  |
| 200-250/2204.2 | 200                          | 1000 | 180 L | 38               | 22,00                    | 41,0                     | 770  |
| 200-250/2204.1 | 200                          | 1000 | 180 L | 38               | 22,00                    | 41,0                     | 770  |
| 200-250/3004   | 200                          | 1000 | 200 L | 38               | 30,00                    | 55,0                     | 866  |
| 200-315/3004.3 | 200                          | 1000 | 200 L | 48               | 30,00                    | 55,0                     | 866  |
| 200-315/3004.2 | 200                          | 1000 | 200 L | 48               | 30,00                    | 55,0                     | 866  |
| 200-315/3004.1 | 200                          | 1000 | 200 L | 48               | 30,00                    | 55,0                     | 866  |
| 200-315/3704.3 | 200                          | 1000 | 225 S | 48               | 37,00                    | 67,0                     | 1178 |
| 200-315/3704.2 | 200                          | 1000 | 225 S | 48               | 37,00                    | 67,0                     | 1178 |
| 200-315/3704.1 | 200                          | 1000 | 225 S | 48               | 37,00                    | 67,0                     | 1178 |
| 200-315/4504.2 | 200                          | 1000 | 225M  | 48               | 45,00                    | 80,0                     | 1248 |
| 200-315/4504.1 | 200                          | 1000 | 225M  | 48               | 45,00                    | 80,0                     | 1248 |
| 200-315/5504   | 200                          | 1000 | 250M  | 48               | 55,00                    | 97,0                     | 1308 |

## Curve Etaline (singole)

## Motori a 2 poli

Etaline 32 - 160

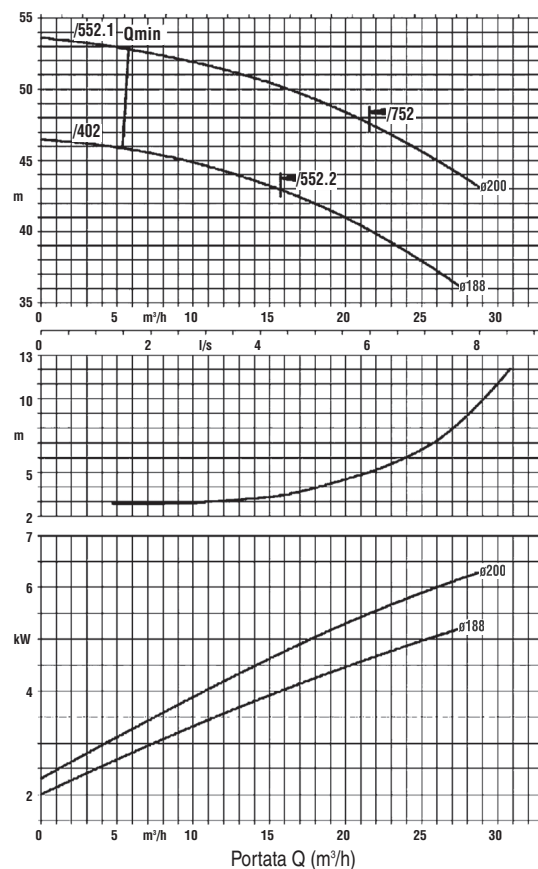


Prevalenza  
H (m)

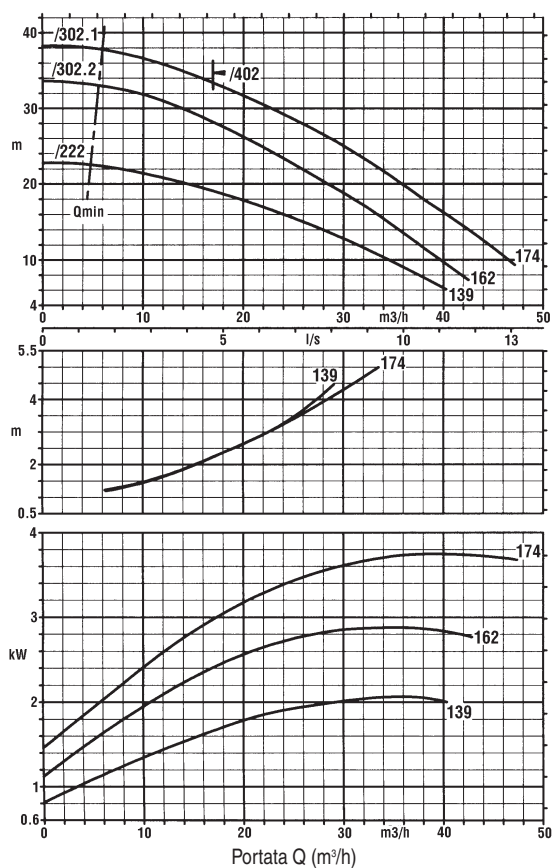
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

Etaline 32 - 200



Etaline 40 - 160



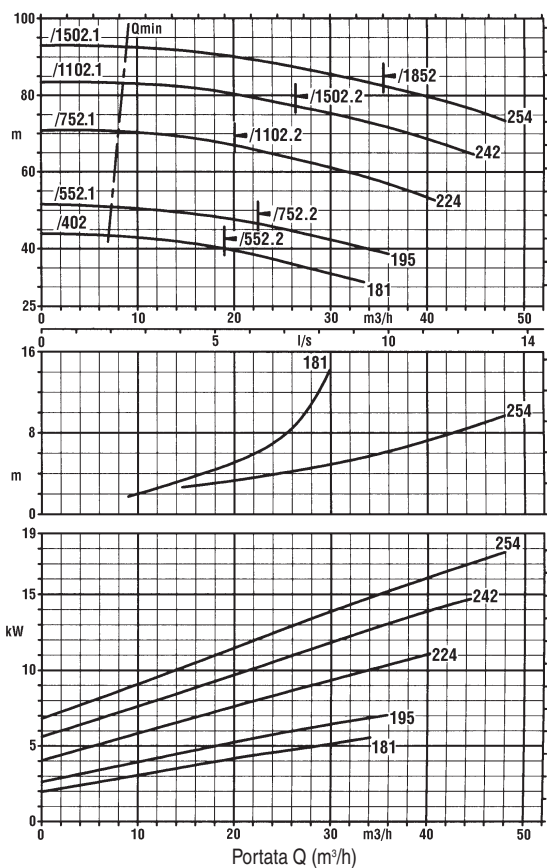
Prevalenza  
H (m)

NPSH  
(m)

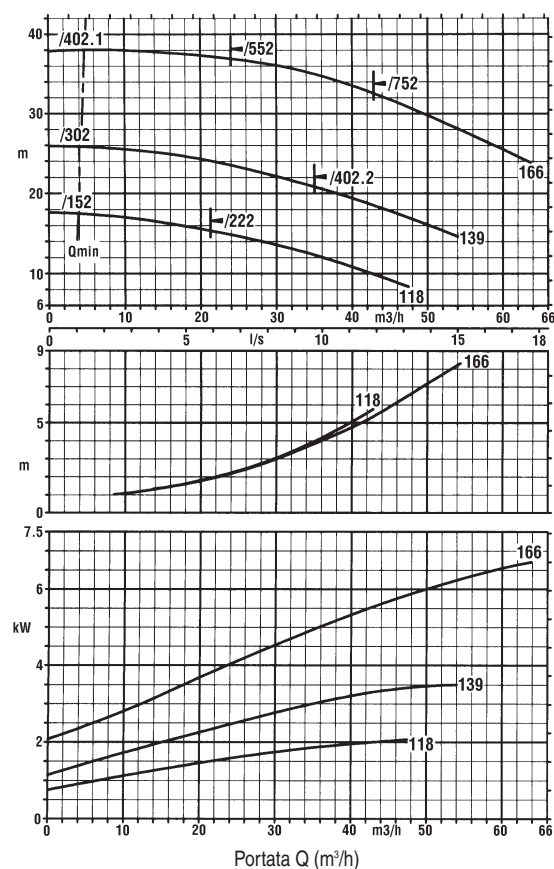
Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

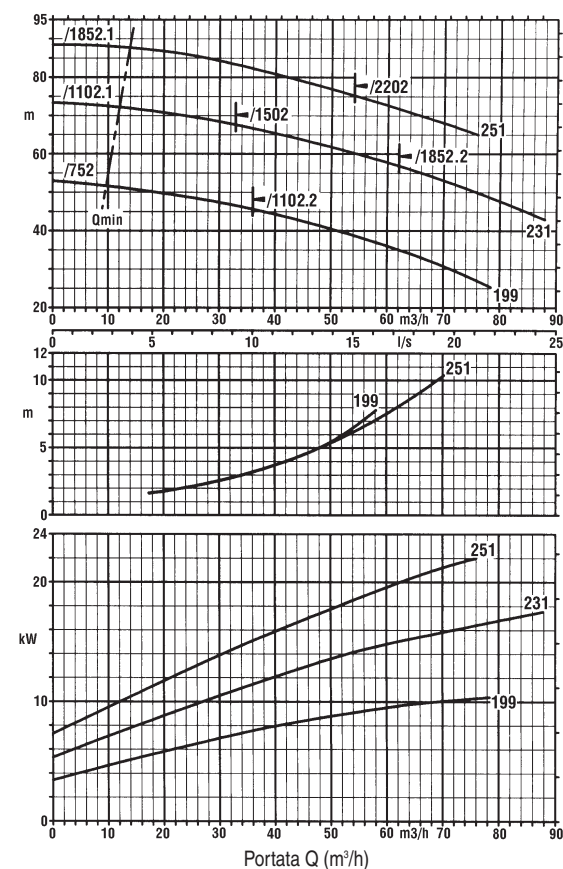
Etaline 40 - 250





**Curve Etaline (singole)**
**Motori a 2 poli**
**Etaline 50 - 160**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline 50 - 250**

**Diametri e interassi degli attacchi, dati elettrici, pesi**

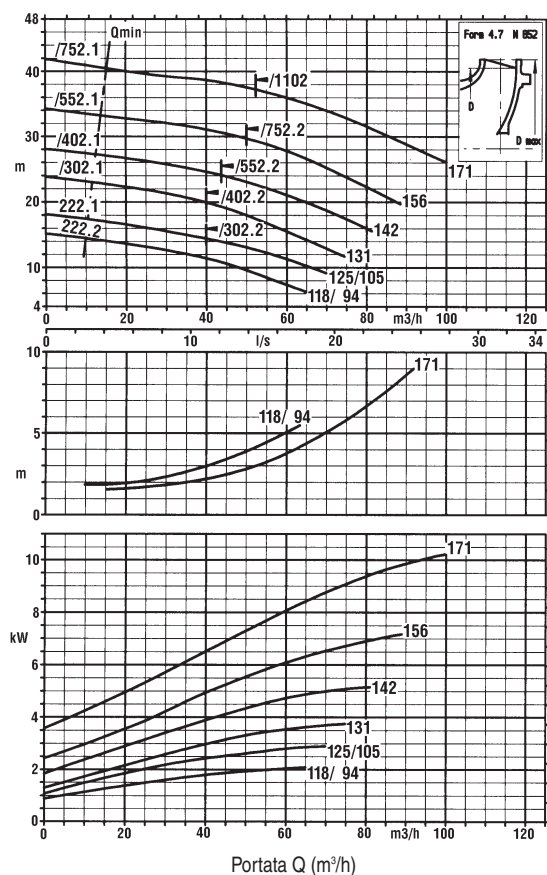
| Etaline      | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 [kW] | Corr. Nom. 3~400V In [A] | Peso Kg |
|--------------|------------------------------|-----|------|------------------|-------------------|--------------------------|---------|
| Grandezza    | DN                           | mm  | M    | mm               |                   |                          |         |
| 32-160/112.2 | 32                           | 320 | 80L  | 28               | 1,1               | 2,4                      | 35      |
| 32-160/112.1 | 32                           | 320 | 80L  | 28               | 1,1               | 2,4                      | 35      |
| 32-160/152.2 | 32                           | 320 | 90S  | 28               | 1,5               | 3,3                      | 39      |
| 32-160/152.1 | 32                           | 320 | 90S  | 28               | 1,5               | 3,3                      | 39      |
| 32-160/222.2 | 32                           | 320 | 90L  | 28               | 2,2               | 4,6                      | 42      |
| 32-160/222.1 | 32                           | 320 | 90L  | 28               | 2,2               | 4,6                      | 42      |
| 32-160/302   | 32                           | 320 | 100L | 28               | 3,0               | 6,1                      | 50      |
| 32-200/402   | 32                           | 380 | 112M | 28               | 4,0               | 7,8                      | 66      |
| 32-200/552.2 | 32                           | 380 | 132S | 28               | 5,5               | 10,4                     | 83      |
| 32-200/552.1 | 32                           | 380 | 132S | 28               | 5,5               | 10,4                     | 83      |
| 32-200/752   | 32                           | 380 | 132S | 28               | 7,5               | 13,8                     | 94      |
| 40-160/222   | 40                           | 320 | 90L  | 28               | 2,2               | 4,6                      | 44      |
| 40-160/302.2 | 40                           | 320 | 100L | 28               | 3,0               | 6,1                      | 51      |
| 40-160/302.1 | 40                           | 320 | 100L | 28               | 3,0               | 6,1                      | 51      |
| 40-160/402   | 40                           | 320 | 112M | 28               | 4,0               | 7,8                      | 59      |
| 40-250/402   | 40                           | 440 | 112M | 28               | 4,0               | 7,8                      | 75      |
| 40-250/552.2 | 40                           | 440 | 132S | 28               | 5,5               | 10,4                     | 92      |
| 40-250/552.1 | 40                           | 440 | 132S | 28               | 5,5               | 10,4                     | 92      |
| 40-250/752.2 | 40                           | 440 | 132S | 28               | 7,5               | 13,8                     | 103     |
| 40-250/752.1 | 40                           | 440 | 132S | 28               | 7,5               | 13,8                     | 103     |

| Etaline       | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 [kW] | Corr. Nom. 3~400V In [A] | Peso Kg |
|---------------|------------------------------|-----|------|------------------|-------------------|--------------------------|---------|
| Grandezza     | DN                           | mm  | M    | mm               |                   |                          |         |
| 40-250/1102.2 | 40                           | 440 | 160M | 28               | 11,0              | 20,0                     | 127     |
| 40-250/1102.1 | 40                           | 440 | 160M | 28               | 11,0              | 20,0                     | 127     |
| 40-250/1502.2 | 40                           | 440 | 160M | 28               | 15,0              | 26,5                     | 138     |
| 40-250/1502.1 | 40                           | 440 | 160M | 28               | 15,0              | 26,5                     | 138     |
| 40-250/1852   | 40                           | 440 | 160L | 28               | 18,5              | 32,0                     | 166     |
| 50-160/152    | 50                           | 340 | 90S  | 28               | 1,5               | 3,3                      | 43      |
| 50-160/222    | 50                           | 340 | 90L  | 28               | 2,2               | 4,6                      | 46      |
| 50-160/302    | 50                           | 340 | 100L | 28               | 3,0               | 6,1                      | 53      |
| 50-160/402.2  | 50                           | 340 | 112M | 28               | 4,0               | 7,8                      | 61      |
| 50-160/402.1  | 50                           | 340 | 112S | 28               | 4,0               | 7,8                      | 61      |
| 50-160/552    | 50                           | 340 | 132S | 28               | 5,5               | 10,4                     | 79      |
| 50-160/752    | 50                           | 340 | 132S | 28               | 7,5               | 13,8                     | 90      |
| 50-250/752    | 50                           | 440 | 132S | 28               | 7,5               | 13,8                     | 107     |
| 50-250/1102.2 | 50                           | 440 | 160M | 28               | 11,0              | 20,0                     | 130     |
| 50-250/1102.1 | 50                           | 440 | 160M | 28               | 11,0              | 20,0                     | 130     |
| 50-250/1502   | 50                           | 440 | 160M | 28               | 15,0              | 26,5                     | 141     |
| 50-250/1852.2 | 50                           | 440 | 160L | 28               | 18,5              | 32,0                     | 169     |
| 50-250/1852.1 | 50                           | 440 | 160L | 28               | 18,5              | 32,0                     | 169     |
| 50-250/2202   | 50                           | 440 | 180M | 28               | 22,0              | 40,5                     | 209     |

# Curve Etaline (singole)

# Motori a 2 poli

Etaline 65 - 160

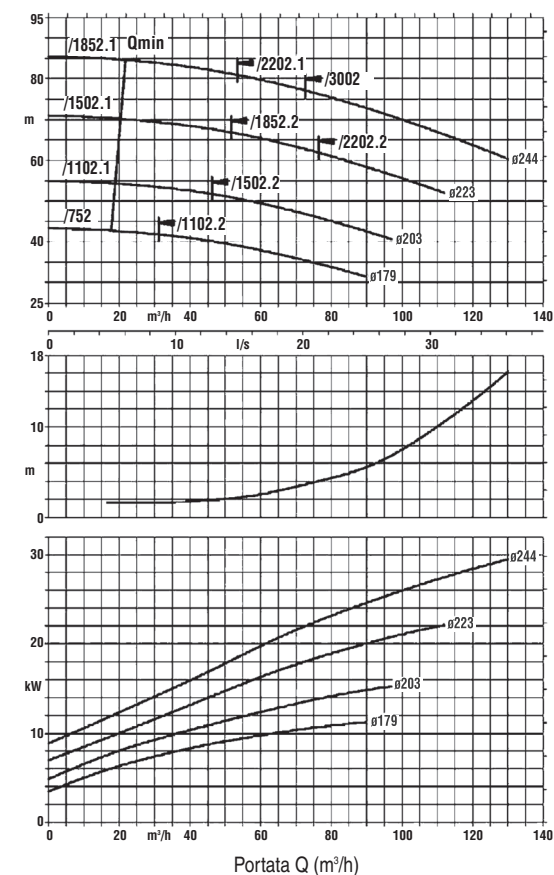


Prevalenza  
H (m)

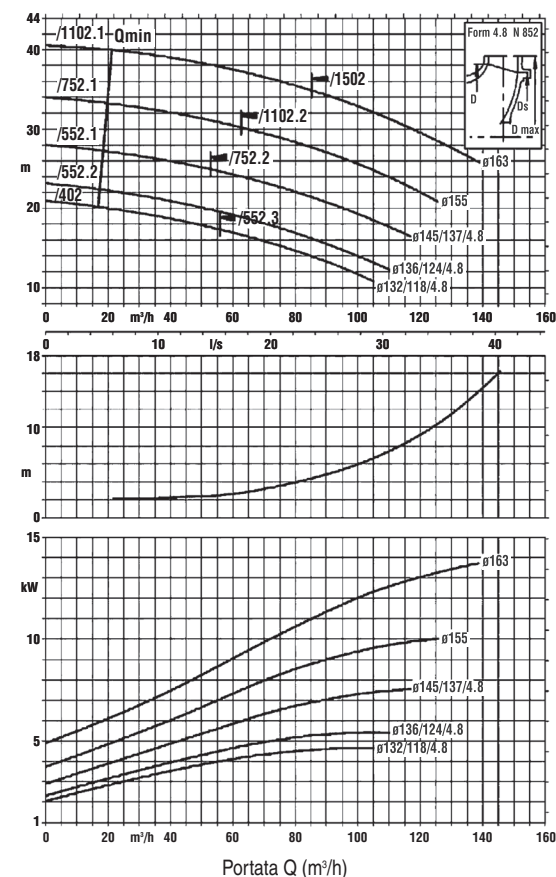
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

Etaline 65 - 250



Etaline 80 - 160



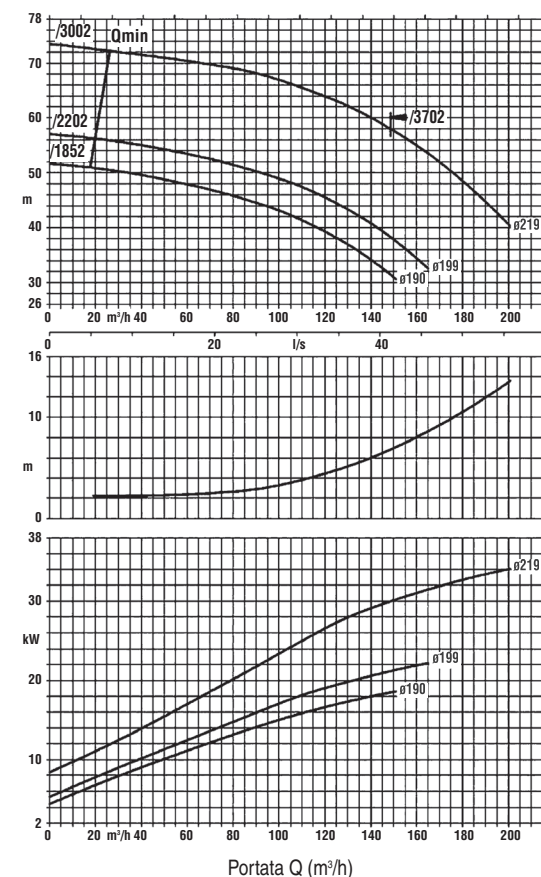
Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

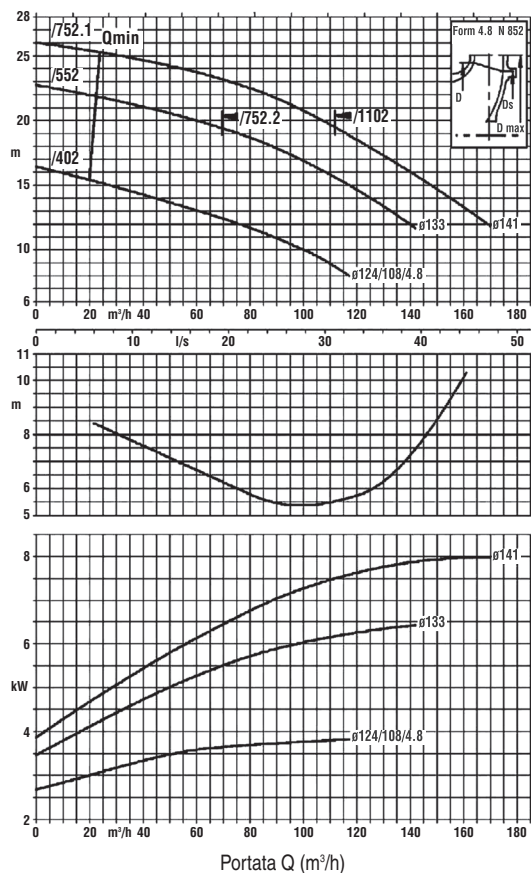
Etaline 80 - 210



Curve Etaline (singole)

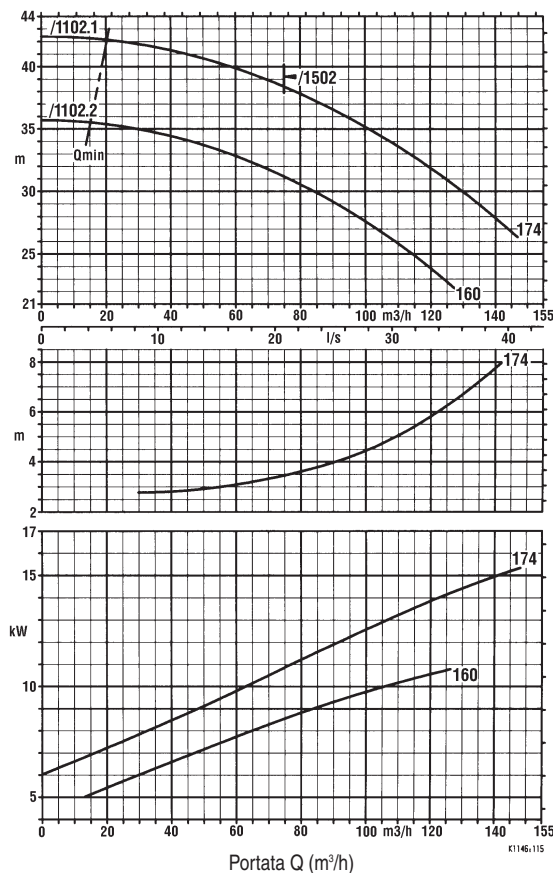
Motori a 2 poli

Etaline 100 - 125



NPSH + 0,5 m (maggiorazione di sicurezza)

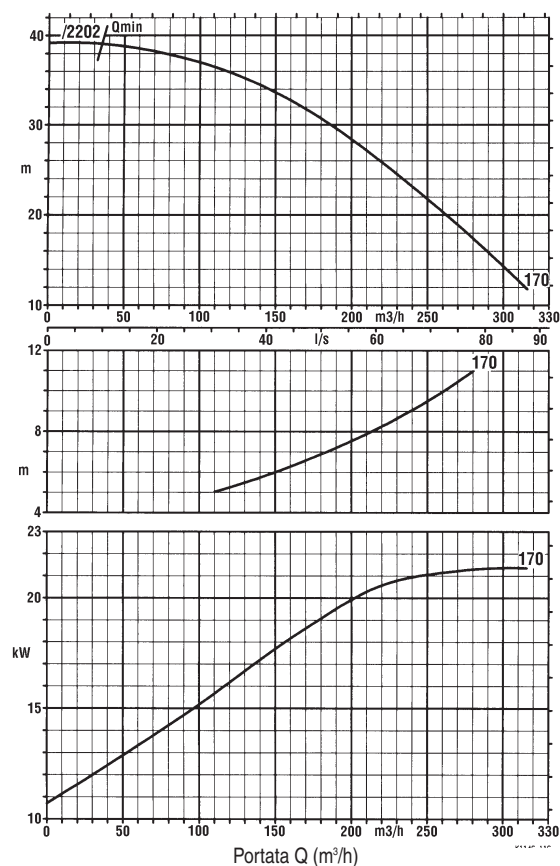
Etaline 100 - 160



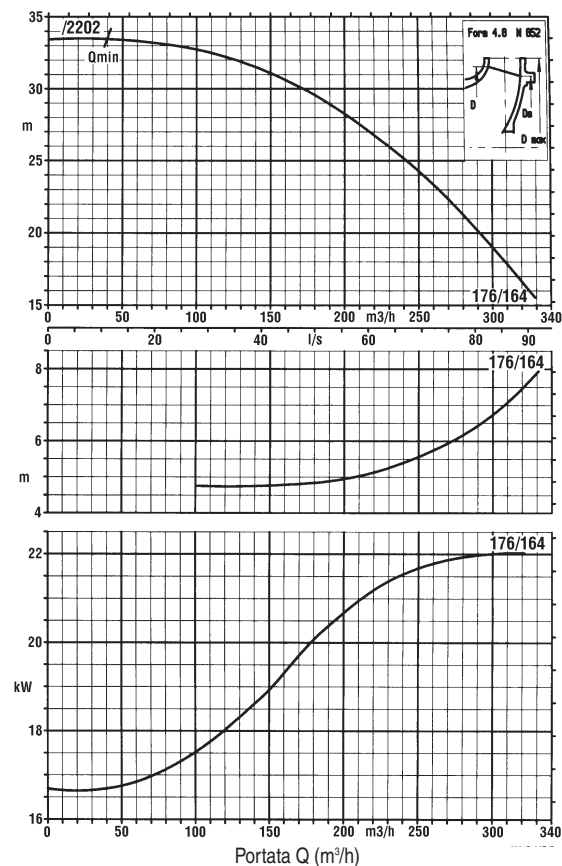
Diametri degli attacchi, interassi, dati elettrici, pesi

| Etaline       | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 [kW] | Corr. Nom. 3~400V In [A] | Peso Kg |
|---------------|------------------------------|-----|------|------------------|-------------------|--------------------------|---------|
| Grandezza     | DN                           | mm  | M    | mm               |                   |                          |         |
| 65-160/222.2  | 65                           | 340 | 90L  | 28               | 2,2               | 4,6                      | 51      |
| 65-160/222.1  | 65                           | 340 | 90L  | 28               | 2,2               | 4,6                      | 51      |
| 65-160/302.2  | 65                           | 340 | 100L | 28               | 3,0               | 6,1                      | 56      |
| 65-160/302.1  | 65                           | 340 | 100L | 28               | 3,0               | 6,1                      | 56      |
| 65-160/402.2  | 65                           | 340 | 112M | 28               | 4,0               | 7,8                      | 64      |
| 65-160/402.1  | 65                           | 340 | 112M | 28               | 4,0               | 7,8                      | 64      |
| 65-160/552.2  | 65                           | 340 | 132S | 28               | 5,5               | 10,4                     | 82      |
| 65-160/552.1  | 65                           | 340 | 132S | 28               | 5,5               | 10,4                     | 82      |
| 65-160/752.2  | 65                           | 340 | 132S | 28               | 7,5               | 13,8                     | 93      |
| 65-160/752.1  | 65                           | 340 | 132S | 28               | 7,5               | 13,8                     | 93      |
| 65-160/1102   | 65                           | 340 | 160M | 28               | 11,0              | 20,0                     | 116     |
| 65-250/752    | 65                           | 475 | 132S | 28               | 7,5               | 13,8                     | 111     |
| 65-250/1102.2 | 65                           | 475 | 160M | 28               | 11,0              | 20,0                     | 135     |
| 65-250/1102.1 | 65                           | 475 | 160M | 28               | 11,0              | 20,0                     | 135     |
| 65-250/1502.2 | 65                           | 475 | 160M | 28               | 15,0              | 26,5                     | 146     |
| 65-250/1502.1 | 65                           | 475 | 160M | 28               | 15,0              | 26,5                     | 146     |
| 65-250/1852.2 | 65                           | 475 | 160L | 28               | 18,5              | 32,0                     | 174     |
| 65-250/1852.1 | 65                           | 475 | 160L | 28               | 18,5              | 32,0                     | 174     |
| 65-250/2202.2 | 65                           | 475 | 180M | 28               | 22,0              | 40,5                     | 213     |
| 65-250/2202.1 | 65                           | 475 | 180M | 28               | 22,0              | 40,5                     | 213     |
| 65-250/3002   | 65                           | 475 | 200L | 28               | 30,0              | 54,0                     | 279     |

| Etaline        | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 [kW] | Corr. Nom. 3~400V In [A] | Peso Kg |
|----------------|------------------------------|-----|------|------------------|-------------------|--------------------------|---------|
| Grandezza      | DN                           | mm  | M    | mm               |                   |                          |         |
| 80-160/402     | 80                           | 360 | 112M | 28               | 4,0               | 7,8                      | 70      |
| 80-160/552.3   | 80                           | 360 | 132S | 28               | 5,5               | 10,4                     | 87      |
| 80-160/552.2   | 80                           | 360 | 132S | 28               | 5,5               | 10,4                     | 87      |
| 80-160/552.1   | 80                           | 360 | 132S | 28               | 5,5               | 10,4                     | 87      |
| 80-160/752.2   | 80                           | 360 | 132S | 28               | 7,5               | 13,8                     | 98      |
| 80-160/752.1   | 80                           | 360 | 132S | 28               | 7,5               | 13,8                     | 98      |
| 80-160/1102.2  | 80                           | 360 | 160M | 28               | 11,0              | 20,0                     | 122     |
| 80-160/1102.1  | 80                           | 360 | 160M | 28               | 11,0              | 20,0                     | 122     |
| 80-160/1502    | 80                           | 360 | 160M | 28               | 15,0              | 26,5                     | 133     |
| 80-210/1852    | 80                           | 500 | 160L | 28               | 18,5              | 32,0                     | 173     |
| 80-210/2202    | 80                           | 500 | 180M | 28               | 22,0              | 40,5                     | 212     |
| 80-210/3002    | 80                           | 500 | 200L | 28               | 30,0              | 54,0                     | 278     |
| 80-210/3702    | 80                           | 500 | 200L | 28               | 37,0              | 65,0                     | 307     |
| 100-125/402    | 100                          | 450 | 112M | 28               | 4,0               | 7,8                      | 78      |
| 100-125/552    | 100                          | 450 | 132S | 28               | 5,5               | 10,4                     | 96      |
| 100-125/752.2  | 100                          | 450 | 132S | 28               | 7,5               | 13,8                     | 107     |
| 100-125/752.1  | 100                          | 450 | 132S | 28               | 7,5               | 13,8                     | 107     |
| 100-125/1102   | 100                          | 450 | 160M | 28               | 11,0              | 20,0                     | 130     |
| 100-160/1102.2 | 100                          | 450 | 160M | 28               | 11,0              | 20,0                     | 128     |
| 100-160/1102.1 | 100                          | 450 | 160M | 28               | 11,0              | 20,0                     | 128     |
| 100-160/1502   | 100                          | 450 | 160M | 28               | 15,0              | 26,5                     | 139     |

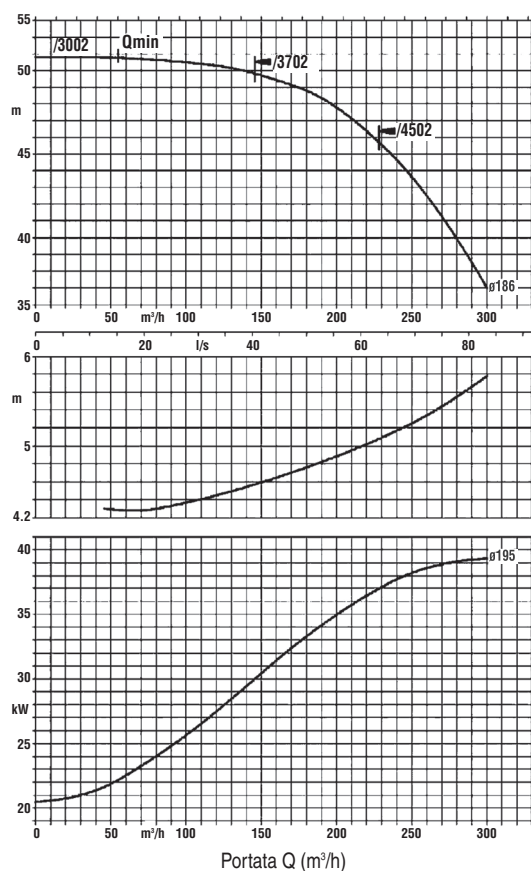
**Curve Etaline (singole)**
**Motori a 2 poli**
**Etaline 100 - 170**


NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline 125 - 160**

**Diametri e interassi degli attacchi, dati elettrici, pesi**

| Etaline      | Diametro e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 100-170/2202 | 100                          | 450 | 180M | 28               | 22,0         | 40,5              | 218  |

| Etaline      | Diametri e distanza attacchi |     |      | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|------------------------------|-----|------|------------------|--------------|-------------------|------|
| Grandezza    | DN                           | mm  | M    | mm               | [kW]         | In [A]            | Kg   |
| 125-160/2202 | 125                          | 620 | 180M | 28               | 22,0         | 40,5              | 283  |

**Curve Etaline (singole)**
**Motori a 2 poli**
**Etaline 125 - 200**

 Prevalenza  
H (m)

 NPSH  
(m)

 Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

**Diametri degli attacchi, interassi, dati elettrici, pesi**

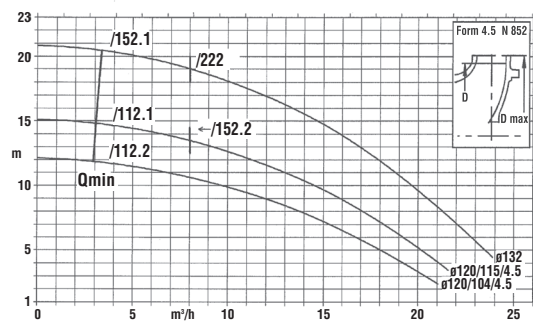
| Etaline          | Diametro e distanza attacchi |     | Diam. Ten. Mecc. | Pot. Nom. P <sub>2</sub> | Corr. Nom. 3~400V | Peso      |
|------------------|------------------------------|-----|------------------|--------------------------|-------------------|-----------|
|                  | DN                           | mm  |                  |                          |                   |           |
| <b>Grandezza</b> |                              |     | <b>M</b>         | <b>[kW]</b>              | <b>In [A]</b>     | <b>Kg</b> |
| 125-200/3002     | 125                          | 620 | 200L             | 30,0                     | 54,0              | 346       |
| 125-200/3702     | 125                          | 620 | 200L             | 37,0                     | 65,0              | 375       |
| 125-200/4502     | 125                          | 620 | 225M             | 45,0                     | 79,0              | 491       |



## Curve Etaline Z (gemellari)

## Motori a 2 poli

**Etaline Z 32 - 160** funzionamento singolo

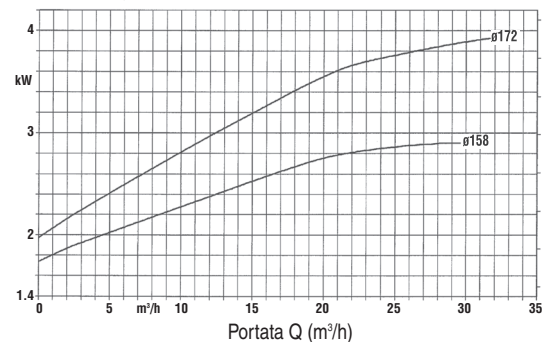
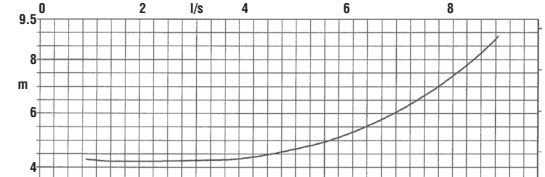
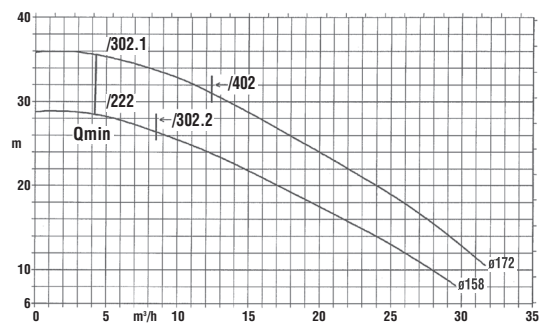


Prevalenza  
H (m)

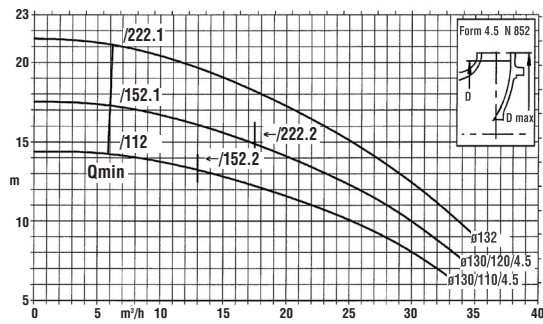
NPSH  
(m)

Potenza  
assorbita  
 $P_2$  (kW)

**Etaline Z 32 - 200** funzionamento singolo



**Etaline Z 40 - 160** funzionamento singolo

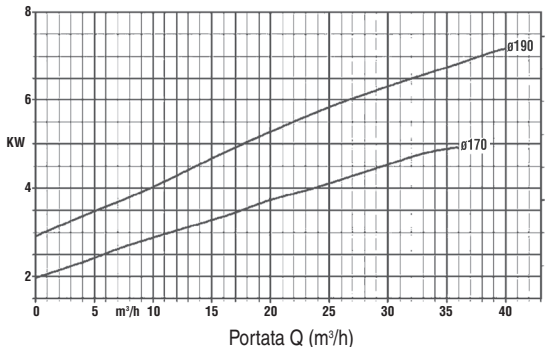
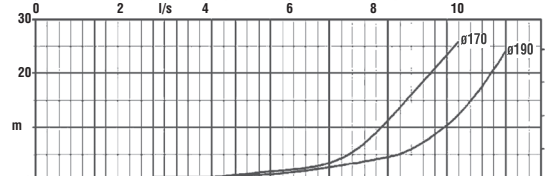
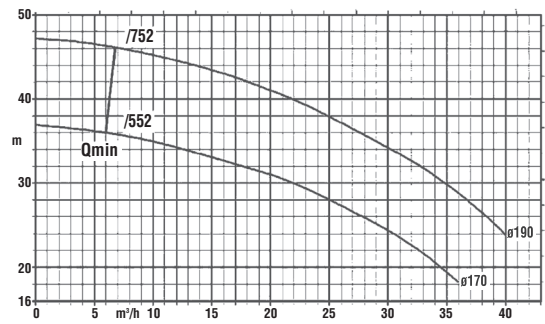


Prevalenza  
H (m)

NPSH  
(m)

Potenza  
assorbita  
 $P_2$  (kW)

**Etaline Z 40 - 250** funzionamento singolo

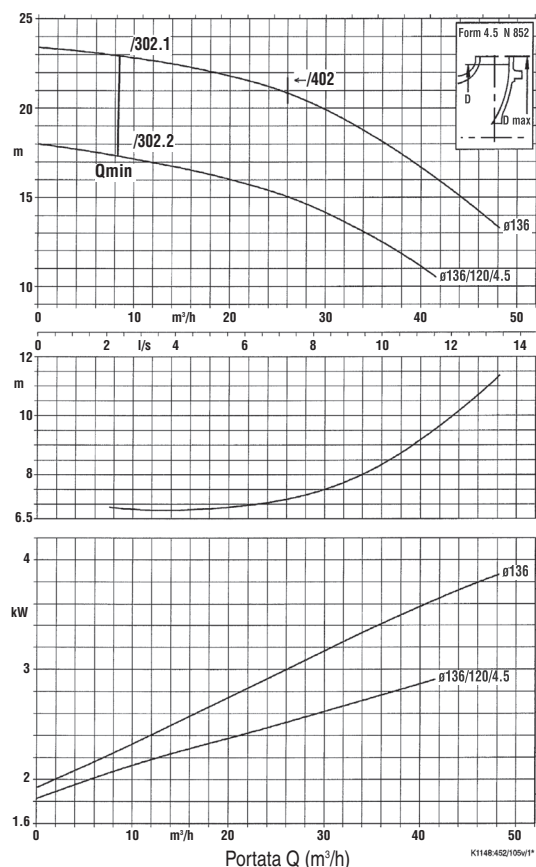


NPSH + 0,5 m (maggiorazione di sicurezza)

## Curve Etaline Z (gemellari)

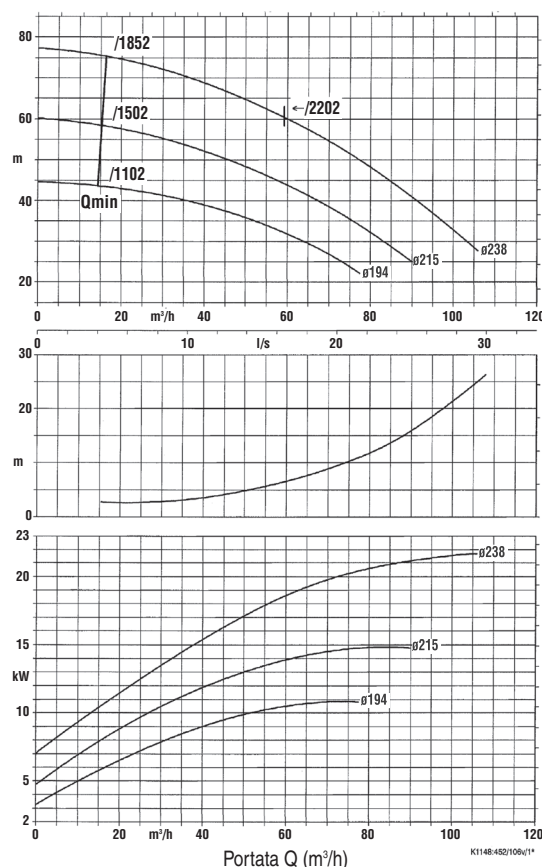
## Motori a 2 poli

Etaline Z 50 - 160 funzionamento singolo



NPSH + 0,5 m (maggiorazione di sicurezza)

Etaline Z 50 - 250 funzionamento singolo



## Diametri e interassi degli attacchi, dati elettrici, pesi

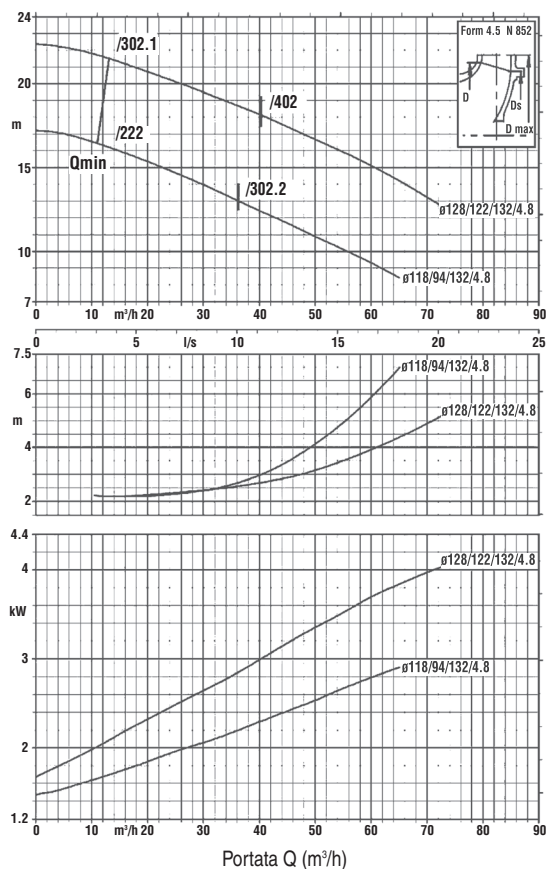
| Etaline Z    | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza    | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 32-160/112.2 | 32                            | 320 | 80    | 28               | 1,1          | 2,4               | 72   |
| 32-160/112.1 | 32                            | 320 | 80    | 28               | 1,1          | 2,4               | 72   |
| 32-160/152.2 | 32                            | 320 | 90 S  | 28               | 1,5          | 3,25              | 78   |
| 32-160/152.1 | 32                            | 320 | 90 S  | 28               | 1,5          | 3,25              | 78   |
| 32-160/222   | 32                            | 320 | 90 L  | 28               | 2,2          | 4,55              | 83   |
| 32-200/222   | 32                            | 380 | 90 L  | 28               | 2,2          | 4,55              | 102  |
| 32-200/302.2 | 32                            | 380 | 100 L | 28               | 3,0          | 6,1               | 114  |
| 32-200/302.1 | 32                            | 380 | 100 L | 28               | 3,0          | 6,1               | 114  |
| 32-200/402   | 32                            | 380 | 112 M | 28               | 4,0          | 7,8               | 130  |

| Etaline Z    | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|--------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza    | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 40-160/112   | 40                            | 380 | 80    | 28               | 1,1          | 2,4               | 74   |
| 40-160/152.2 | 40                            | 380 | 90 S  | 28               | 1,5          | 3,25              | 80   |
| 40-160/152.1 | 40                            | 380 | 90 S  | 28               | 1,5          | 3,25              | 80   |
| 40-160/222.2 | 40                            | 380 | 90 L  | 28               | 2,2          | 4,55              | 85   |
| 40-160/222.1 | 40                            | 380 | 90 L  | 28               | 2,2          | 4,55              | 85   |
| 40-250/552   | 40                            | 440 | 132 S | 28               | 5,5          | 10,4              | 182  |
| 40-250/752   | 40                            | 440 | 132 S | 28               | 7,5          | 13,8              | 206  |
| 50-160/302.2 | 50                            | 340 | 100 L | 28               | 3,0          | 6,1               | 103  |
| 50-160/302.1 | 50                            | 340 | 100 L | 28               | 3,0          | 6,1               | 103  |
| 50-160/402   | 50                            | 340 | 112 M | 28               | 4,0          | 7,8               | 119  |
| 50-250/1102  | 50                            | 440 | 160 M | 28               | 11,0         | 20,0              | 259  |
| 50-250/1502  | 50                            | 440 | 160 M | 28               | 15,0         | 26,5              | 277  |
| 50-250/1852  | 50                            | 440 | 160 L | 28               | 18,5         | 32,0              | 325  |
| 50-250/2202  | 50                            | 440 | 180 M | 28               | 22,0         | 40,5              | 419  |

**Curve Etaline Z (gemellari)**

**Motori a 2 poli**

**Etaline Z 65 - 160** funzionamento singolo

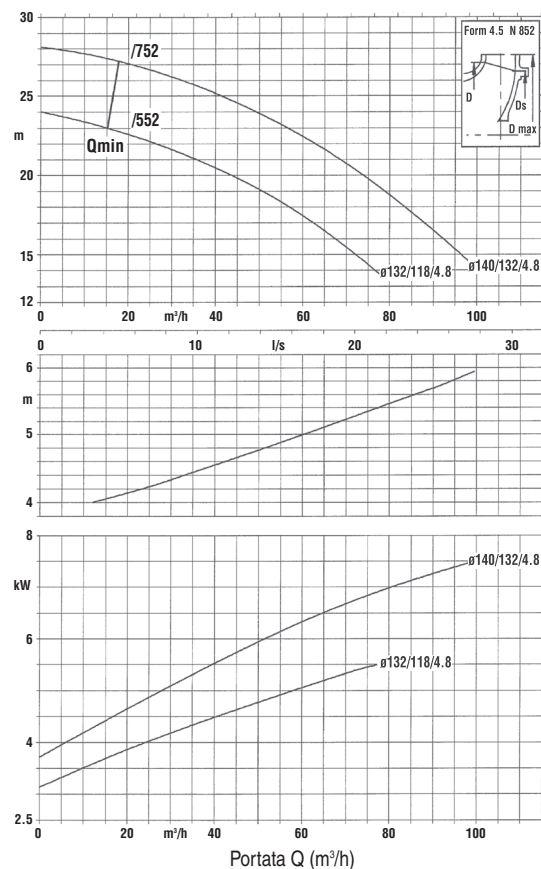


Prevalenza  
H (m)

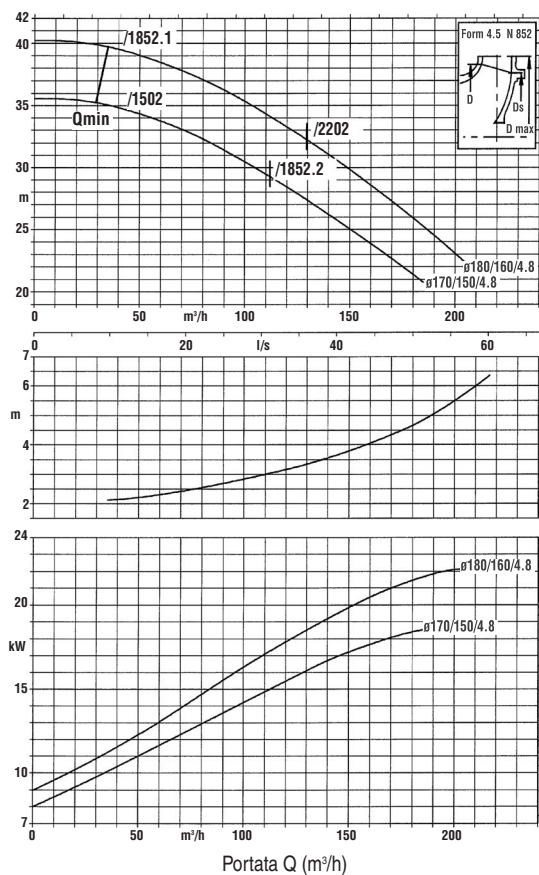
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

**Etaline Z 80 - 160** funzionamento singolo



**Etaline Z 100 - 200** funzionamento singolo



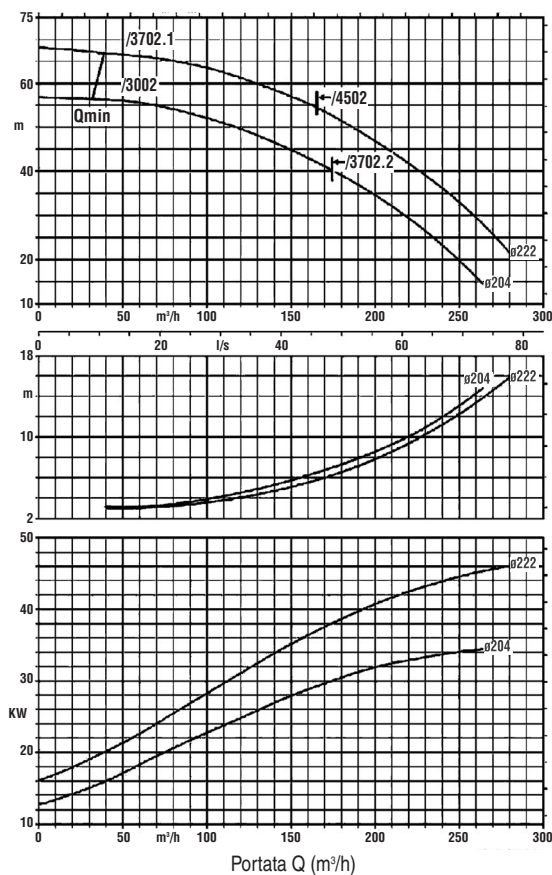
Prevalenza  
H (m)

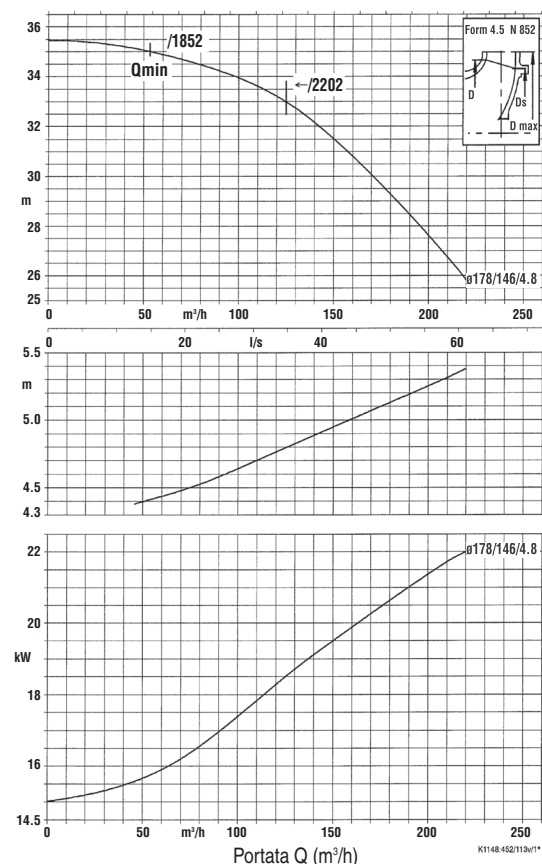
NPSH  
(m)

Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

**Etaline Z 100 - 250** funzionamento singolo



**Curve Etaline Z (gemellari)**
**Motori a 2 poli**
**Etaline Z 125 - 200      funzionamento singolo**

 Prevalenza  
H (m)

 NPSH  
(m)

 Potenza  
assorbita  
P<sub>2</sub> (kW)

NPSH + 0,5 m (maggiorazione di sicurezza)

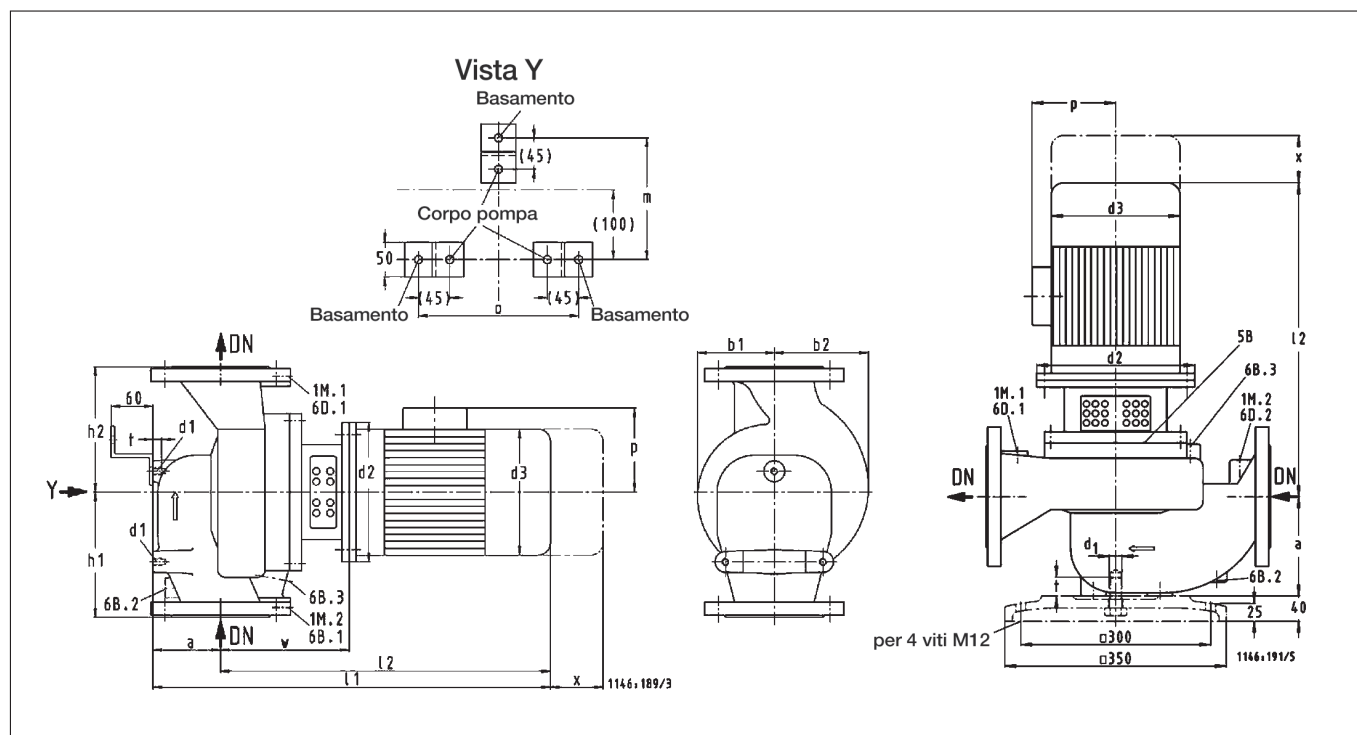
**Diametri e interassi degli attacchi, dati elettrici, pesi**

| Etaline Z      | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|----------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza      | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 65-160/222     | 65                            | 340 | 90 L  | 28               | 2,2          | 4,55              | 97   |
| 65-160/302.2   | 65                            | 340 | 100 L | 28               | 3,0          | 6,1               | 109  |
| 65-160/302.1   | 65                            | 340 | 100 L | 28               | 3,0          | 6,1               | 109  |
| 65-160/402     | 65                            | 340 | 112 M | 28               | 4,0          | 7,8               | 125  |
| 80-160/552     | 80                            | 360 | 132 S | 28               | 5,5          | 10,4              | 170  |
| 80-160/752     | 80                            | 360 | 132 S | 28               | 7,5          | 13,8              | 194  |
| 100-200/1502   | 100                           | 550 | 160 M | 38               | 15,0         | 26,5              | 353  |
| 100-200/1852.2 | 100                           | 550 | 160 L | 38               | 18,5         | 32,0              | 401  |
| 100-200/1852.1 | 100                           | 550 | 160 L | 38               | 18,5         | 32,0              | 401  |
| 100-200/2202   | 100                           | 550 | 180 M | 38               | 22,0         | 40,5              | 494  |

| Etaline Z      | Diametro e interassi attacchi |     |       | Diam. Ten. Mecc. | Pot. Nom. P2 | Corr. Nom. 3~400V | Peso |
|----------------|-------------------------------|-----|-------|------------------|--------------|-------------------|------|
| Grandezza      | DN                            | mm  | M     | mm               | [kW]         | In [A]            | Kg   |
| 100-250/3002   | 100                           | 550 | 200 L | 38               | 30,0         | 54,0              | 652  |
| 100-250/3702.2 | 100                           | 550 | 200 L | 38               | 37,0         | 65,0              | 710  |
| 100-250/3702.1 | 100                           | 550 | 200 L | 38               | 37,0         | 65,0              | 710  |
| 100-250/4502   | 100                           | 550 | 225 M | 38               | 45,0         | 79,0              | 941  |
| 125-200/1852   | 125                           | 620 | 160 L | 28               | 18,5         | 32,0              | 422  |
| 125-200/2202   | 125                           | 620 | 180 M | 28               | 22,0         | 40,5              | 516  |



## Dimensioni Etaline

**Motori a 4 poli**

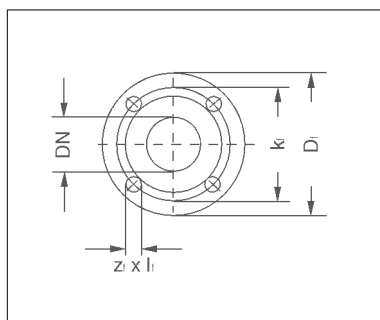
|                   |                                     |
|-------------------|-------------------------------------|
| <b>1 M.1 / .2</b> | Attacco per il manometro            |
| <b>6 B.1 / .2</b> | Tappo per scarico liquido           |
| <b>6 D.1 / .2</b> | Tappo per riempimento e spurgo aria |

<sup>1)</sup> DN = EN 1092-2, PN 16 (precedentemente DIN 2533)

2)  $R_c = \text{ISO } 7/1$

### Ancoraggio della Etaline:

- Fino alla grandezza 100-160, corpo pompa con tre fori filettati (M10)
- dalla 100-170, foro unico centrale (M20)



Flange PN 16, DIN 2533  
mm

| DN  | PN | D <sub>f</sub> | k <sub>f</sub> | z <sub>f</sub> | l <sub>f</sub> |
|-----|----|----------------|----------------|----------------|----------------|
| 32  | 16 | 140            | 100            | 4              | 18             |
| 40  | 16 | 150            | 110            | 4              | 18             |
| 50  | 16 | 165            | 125            | 4              | 18             |
| 65  | 16 | 185            | 145            | 4              | 18             |
| 80  | 16 | 200            | 160            | 8              | 18             |
| 100 | 16 | 220            | 180            | 8              | 18             |
| 125 | 16 | 250            | 210            | 8              | 18             |

mm

| Etaline           | DN <sup>1)</sup> | a   | b1 ≈ | b2 ≈ | d1  | d2  | d3  | p   | h1  | h2  | l1 ≈ | l2 ≈ | t    | x ≈ | w   | 1M.1/(2 <sup>2</sup> )<br>6B.1/(3 <sup>2</sup> ) | 6B2 | 6D.1/(2 <sup>2</sup> ) | m   | o   |
|-------------------|------------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|--------------------------------------------------|-----|------------------------|-----|-----|
| 32-160/024.2 / .1 | 32               | 69  | 112  | 120  | M10 | 160 | 145 | 111 | 160 | 160 | 440  | 371  | 12,5 | 100 | 150 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 32-160/034.2 / .1 | 32               | 69  | 112  | 120  | M10 | 160 | 145 | 111 | 160 | 160 | 440  | 371  | 12,5 | 100 | 150 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 32-160/054        | 32               | 69  | 112  | 120  | M10 | 200 | 162 | 120 | 160 | 160 | 494  | 425  | 12,5 | 100 | 170 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 32-200/054        | 32               | 95  | 129  | 135  | M10 | 200 | 162 | 120 | 190 | 190 | 516  | 421  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 32-200/074.2 / .1 | 32               | 95  | 129  | 135  | M10 | 200 | 162 | 120 | 190 | 190 | 516  | 421  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 32-200/114        | 32               | 95  | 129  | 135  | M10 | 200 | 190 | 128 | 190 | 190 | 543  | 448  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-160/024        | 40               | 80  | 112  | 119  | M10 | 160 | 145 | 111 | 160 | 160 | 452  | 372  | 12,5 | 100 | 151 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-160/034        | 40               | 80  | 112  | 119  | M10 | 160 | 145 | 111 | 160 | 160 | 452  | 372  | 12,5 | 100 | 151 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-160/054        | 40               | 80  | 112  | 119  | M10 | 200 | 162 | 120 | 160 | 160 | 506  | 426  | 12,5 | 100 | 171 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-250/054        | 40               | 95  | 161  | 168  | M10 | 200 | 162 | 120 | 220 | 220 | 516  | 421  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-250/074.2 / .1 | 40               | 95  | 161  | 168  | M10 | 200 | 162 | 120 | 220 | 220 | 516  | 421  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-250/114        | 40               | 95  | 161  | 168  | M10 | 200 | 190 | 128 | 220 | 220 | 543  | 448  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-250/154.2 / .1 | 40               | 95  | 161  | 168  | M10 | 200 | 190 | 128 | 220 | 220 | 550  | 455  | 12,5 | 100 | 166 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 40-250/224.2 / .1 | 40               | 95  | 161  | 168  | M10 | 250 | 213 | 135 | 220 | 220 | 588  | 493  | 12,5 | 100 | 180 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-160/034.2 / .1 | 50               | 85  | 113  | 125  | M10 | 160 | 145 | 111 | 170 | 170 | 462  | 377  | 12,5 | 100 | 156 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-160/054.2 / .1 | 50               | 85  | 113  | 125  | M10 | 200 | 162 | 120 | 170 | 170 | 516  | 431  | 12,5 | 100 | 176 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-160/074.2 / .1 | 50               | 85  | 113  | 125  | M10 | 200 | 162 | 120 | 170 | 170 | 516  | 431  | 12,5 | 100 | 176 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-160/114        | 50               | 85  | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 543  | 458  | 12,5 | 100 | 176 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-250/114        | 50               | 100 | 160  | 175  | M10 | 200 | 190 | 128 | 220 | 220 | 553  | 453  | 12,5 | 100 | 171 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-250/154.2 / .1 | 50               | 100 | 160  | 175  | M10 | 200 | 190 | 128 | 220 | 220 | 560  | 460  | 12,5 | 100 | 171 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |
| 50-250/224.2 / .1 | 50               | 100 | 160  | 175  | M10 | 250 | 213 | 135 | 220 | 220 | 598  | 498  | 12,5 | 100 | 185 | Rc ⅔                                             | -   | Rc ⅔                   | 175 | 190 |

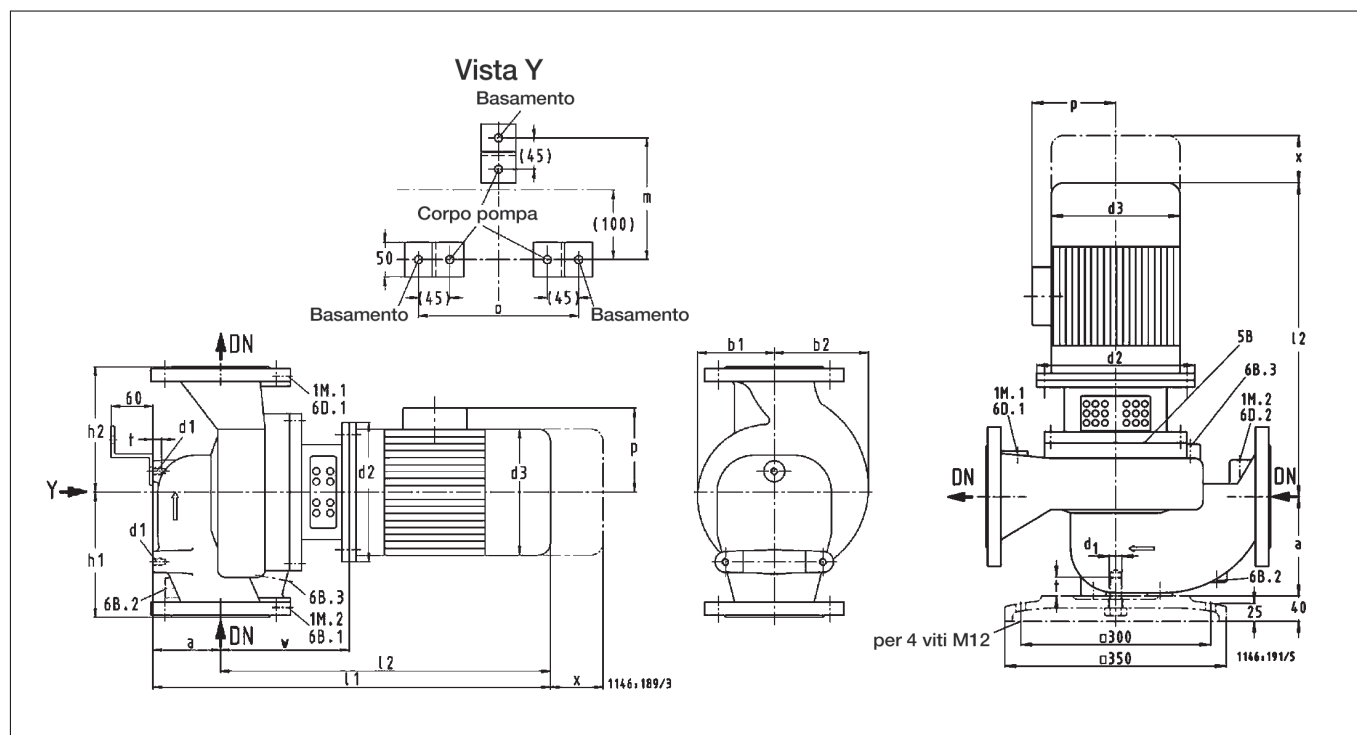


**Dimensioni Etaline**
**Motori a 4 poli**

mm

| Etaline             | DN <sup>1)</sup> | a   | b1 ≈ | b2 ≈ | d1  | d2  | d3  | p   | h1  | h2  | l1 ≈ | l2 ≈ | t    | x ≈ | w   | 1M.1/2 <sup>2)</sup><br>6B.1/3 <sup>2)</sup> | 6B2    | 6D.1/2 <sup>2)</sup> | m   | o   |
|---------------------|------------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|----------------------------------------------|--------|----------------------|-----|-----|
| 50-250/304          | 50               | 100 | 160  | 175  | M10 | 250 | 213 | 135 | 220 | 220 | 598  | 498  | 12,5 | 100 | 185 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 190 |
| 65-160/024          | 65               | 100 | 113  | 125  | M10 | 160 | 145 | 111 | 170 | 170 | 477  | 377  | 12,5 | 100 | 156 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/034          | 65               | 100 | 113  | 125  | M10 | 160 | 145 | 111 | 170 | 170 | 477  | 377  | 12,5 | 100 | 156 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/054./1       | 65               | 100 | 113  | 125  | M10 | 200 | 162 | 120 | 170 | 170 | 531  | 431  | 12,5 | 100 | 176 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/074.3./2.1   | 65               | 100 | 113  | 125  | M10 | 200 | 162 | 120 | 170 | 170 | 531  | 431  | 12,5 | 100 | 176 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/074.2./1     | 65               | 100 | 113  | 125  | M10 | 200 | 162 | 120 | 170 | 170 | 531  | 431  | 12,5 | 100 | 176 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/114.2./1     | 65               | 100 | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 558  | 458  | 12,5 | 100 | 176 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-160/154          | 65               | 100 | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 565  | 465  | 12,5 | 100 | 176 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 210 |
| 65-250/154          | 65               | 105 | 167  | 190  | M10 | 200 | 190 | 128 | 225 | 250 | 575  | 470  | 12,5 | 100 | 181 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 65-250/224.2./1     | 65               | 105 | 167  | 190  | M10 | 250 | 213 | 135 | 225 | 250 | 613  | 508  | 12,5 | 100 | 195 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 65-250/224.1        | 65               | 105 | 167  | 190  | M10 | 250 | 213 | 135 | 225 | 250 | 613  | 508  | 12,5 | 100 | 195 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 65-250/304.2./1     | 65               | 105 | 167  | 190  | M10 | 250 | 213 | 135 | 225 | 250 | 613  | 508  | 12,5 | 100 | 195 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 65-250/404          | 65               | 105 | 167  | 190  | M10 | 250 | 234 | 148 | 225 | 250 | 634  | 529  | 12,5 | 100 | 195 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-160/054          | 80               | 97  | 113  | 135  | M10 | 200 | 162 | 120 | 180 | 180 | 538  | 441  | 12,5 | 100 | 186 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-160/074.2./1     | 80               | 97  | 113  | 135  | M10 | 200 | 162 | 120 | 180 | 180 | 538  | 441  | 12,5 | 100 | 186 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-160/114.2./1     | 80               | 97  | 113  | 135  | M10 | 200 | 190 | 128 | 180 | 180 | 565  | 468  | 12,5 | 100 | 186 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-160/154          | 80               | 97  | 113  | 135  | M10 | 200 | 190 | 128 | 180 | 180 | 572  | 475  | 12,5 | 100 | 186 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-210/154          | 80               | 151 | 140  | 160  | M10 | 200 | 190 | 128 | 250 | 250 | 596  | 445  | 12,5 | 140 | 156 | Rc 3/8                                       | Rc 3/8 | Rc 3/8               | 195 | 230 |
| 80-210/224          | 80               | 151 | 140  | 160  | M10 | 250 | 213 | 135 | 250 | 250 | 634  | 483  | 12,5 | 140 | 170 | Rc 3/8                                       | Rc 3/8 | Rc 3/8               | 195 | 230 |
| 80-210/304.2./1     | 80               | 151 | 140  | 160  | M10 | 250 | 213 | 135 | 250 | 250 | 634  | 483  | 12,5 | 140 | 170 | Rc 3/8                                       | Rc 3/8 | Rc 3/8               | 195 | 230 |
| 80-210/404          | 80               | 151 | 140  | 160  | M10 | 250 | 234 | 148 | 250 | 250 | 655  | 504  | 12,5 | 140 | 170 | Rc 3/8                                       | Rc 3/8 | Rc 3/8               | 195 | 230 |
| 80-250/224.2./1     | 80               | 114 | 165  | 184  | M10 | 250 | 213 | 135 | 250 | 250 | 618  | 504  | 12,5 | 140 | 191 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-250/304          | 80               | 114 | 165  | 184  | M10 | 250 | 213 | 135 | 250 | 250 | 638  | 524  | 12,5 | 140 | 211 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-250/404          | 80               | 114 | 165  | 184  | M10 | 250 | 234 | 148 | 250 | 250 | 659  | 545  | 12,5 | 140 | 211 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 80-250/554          | 80               | 114 | 165  | 184  | M10 | 300 | 266 | 167 | 250 | 250 | 747  | 633  | 12,5 | 140 | 234 | Rc 3/8                                       | -      | Rc 3/8               | 175 | 230 |
| 100-125/074         | 100              | 121 | 113  | 153  | M10 | 200 | 162 | 120 | 230 | 220 | 541  | 420  | 12,5 | 100 | 165 | Rc 1/2                                       | -      | Rc 1/2               | 195 | 230 |
| 100-125/114         | 100              | 121 | 113  | 153  | M10 | 200 | 190 | 128 | 230 | 220 | 568  | 447  | 12,5 | 100 | 165 | Rc 1/2                                       | -      | Rc 1/2               | 195 | 230 |
| 100-160/154         | 100              | 118 | 114  | 144  | M10 | 200 | 190 | 128 | 250 | 200 | 580  | 462  | 12,5 | 100 | 173 | Rc 1/2                                       | -      | Rc 1/2               | 195 | 230 |
| 100-160/224         | 100              | 118 | 114  | 144  | M10 | 250 | 213 | 135 | 250 | 200 | 618  | 500  | 12,5 | 100 | 187 | Rc 1/2                                       | -      | Rc 1/2               | 195 | 230 |
| 100-170/154         | 100              | 157 | 121  | 155  | M20 | 200 | 190 | 128 | 245 | 205 | 622  | 465  | 25,0 | 100 | 176 | Rc 1/2                                       | -      | Rc 1/2               | -   | -   |
| 100-170/224.2./1    | 100              | 157 | 121  | 155  | M20 | 250 | 213 | 135 | 245 | 205 | 660  | 503  | 25,0 | 100 | 190 | Rc 1/2                                       | -      | Rc 1/2               | -   | -   |
| 100-170/304         | 100              | 157 | 121  | 155  | M20 | 250 | 213 | 135 | 245 | 205 | 660  | 503  | 25,0 | 100 | 190 | Rc 1/2                                       | -      | Rc 1/2               | -   | -   |
| 100-200/404.2./1    | 100              | 180 | 166  | 195  | M20 | 250 | 234 | 148 | 305 | 245 | 704  | 524  | 25,0 | 140 | 190 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 100-200/554         | 100              | 180 | 166  | 195  | M20 | 300 | 266 | 167 | 305 | 245 | 792  | 612  | 25,0 | 140 | 213 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 100-250/554.2./1    | 100              | 158 | 191  | 212  | M20 | 300 | 266 | 167 | 290 | 260 | 794  | 636  | 25,0 | 140 | 237 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 100-250/754.3./2.1  | 100              | 158 | 191  | 212  | M20 | 300 | 298 | 167 | 290 | 260 | 816  | 658  | 25,0 | 140 | 237 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 100-250/1104.2./1   | 100              | 158 | 191  | 212  | M20 | 350 | 325 | 197 | 290 | 260 | 974  | 816  | 25,0 | 140 | 270 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-160/304         | 125              | 203 | 173  | 220  | M20 | 250 | 213 | 135 | 340 | 280 | 706  | 503  | 25,0 | 140 | 190 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-160/404         | 125              | 203 | 173  | 220  | M20 | 250 | 234 | 148 | 340 | 280 | 727  | 524  | 25,0 | 140 | 190 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-200/554         | 125              | 207 | 175  | 213  | M20 | 300 | 266 | 167 | 340 | 280 | 819  | 612  | 25,0 | 140 | 213 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-200/754         | 125              | 207 | 175  | 213  | M20 | 300 | 298 | 167 | 340 | 280 | 841  | 634  | 25,0 | 140 | 213 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-250/1104.2./1   | 125              | 212 | 183  | 215  | M20 | 350 | 325 | 197 | 340 | 280 | 1004 | 792  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 125-250/1504        | 125              | 212 | 183  | 215  | M20 | 350 | 325 | 197 | 340 | 280 | 1004 | 792  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 150-200/754         | 150              | 226 | 185  | 235  | M20 | 300 | 298 | 167 | 375 | 315 | 860  | 634  | 25,0 | 140 | 213 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 150-200/1104        | 150              | 226 | 185  | 235  | M20 | 350 | 325 | 197 | 375 | 315 | 1018 | 792  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 150-250/1504.3./2.1 | 150              | 220 | 221  | 270  | M20 | 350 | 325 | 197 | 370 | 330 | 1012 | 792  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 150-250/1854.2./1   | 150              | 220 | 221  | 270  | M20 | 350 | 370 | 258 | 370 | 330 | 1076 | 856  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 150-250/2204        | 150              | 220 | 221  | 270  | M20 | 350 | 370 | 258 | 370 | 330 | 1076 | 856  | 25,0 | 140 | 246 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-250/1504        | 200              | 222 | 235  | 299  | M20 | 350 | 325 | 197 | 400 | 400 | 1067 | 845  | 25,0 | 140 | 299 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-250/1854        | 200              | 222 | 235  | 299  | M20 | 350 | 370 | 258 | 400 | 400 | 1131 | 909  | 25,0 | 140 | 299 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-250/2204.2./1   | 200              | 222 | 235  | 299  | M20 | 350 | 370 | 258 | 400 | 400 | 1131 | 909  | 25,0 | 140 | 299 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-250/3004        | 200              | 222 | 235  | 299  | M20 | 400 | 422 | 305 | 400 | 400 | 1190 | 968  | 25,0 | 140 | 299 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-315/3004.2./1   | 200              | 225 | 255  | 313  | M20 | 400 | 422 | 305 | 410 | 410 | 1212 | 987  | 25,0 | 140 | 318 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-315/3704.2./1   | 200              | 225 | 255  | 313  | M20 | 450 | 460 | 305 | 410 | 410 | 1263 | 1038 | 25,0 | 140 | 348 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-315/4504        | 200              | 225 | 255  | 313  | M20 | 450 | 468 | 305 | 410 | 410 | 1295 | 1070 | 25,0 | 140 | 348 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |
| 200-315/5504        | 200              | 225 | 255  | 313  | M20 | 550 | 520 | 427 | 410 | 410 | 1363 | 1138 | 25,0 | 140 | 348 | Rc 1/2                                       | Rc 1/2 | Rc 1/2               | -   | -   |

2



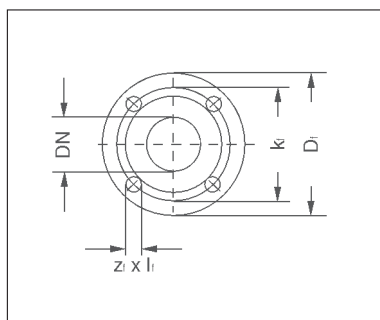
|                   |                                     |
|-------------------|-------------------------------------|
| <b>1 M.1 / .2</b> | Attacco per il manometro            |
| <b>6 B.1 / .2</b> | Tappo per scarico liquido           |
| <b>6 D.1 / .2</b> | Tappo per riempimento e spurgo aria |

<sup>1)</sup> DN = EN 1092-2, PN 16 (precedentemente DIN 2533)

2)  $R_c = \text{ISO } 7/1$

### Ancoraggio della Etaline:

- Fino alla grandezza 100-160, corpo pompa con tre fori filettati (M10)
- dalla 100-170, foro unico centrale (M20)



**Flange PN 16, DIN 2533**  
mm

| DN  | PN | D <sub>f</sub> | k <sub>f</sub> | z <sub>f</sub> | l <sub>f</sub> |
|-----|----|----------------|----------------|----------------|----------------|
| 32  | 16 | 140            | 100            | 4              | 18             |
| 40  | 16 | 150            | 110            | 4              | 18             |
| 50  | 16 | 165            | 125            | 4              | 18             |
| 65  | 16 | 185            | 145            | 4              | 18             |
| 80  | 16 | 200            | 160            | 8              | 18             |
| 100 | 16 | 220            | 180            | 8              | 18             |
| 125 | 16 | 250            | 210            | 8              | 18             |

mm - Tolleranze secondo EN 735

| Etaline          | DN <sup>1)</sup> | a  | b1 ≈ | b2 ≈ | d1  | d2  | d3  | p   | h1  | h2  | l1 ≈ | l2 ≈ | t    | x ≈ | w   | 1M.1./2 <sup>2)</sup><br>6B.1./3 <sup>2)</sup> | 6B2 | 6D.1./2 <sup>2)</sup> | m   | o   |
|------------------|------------------|----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------------------------------------------------|-----|-----------------------|-----|-----|
| 32-160/112.2/.1  | 32               | 69 | 112  | 120  | M10 | 200 | 162 | 120 | 160 | 160 | 494  | 425  | 12,5 | 100 | 170 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-160/152.2/.1  | 32               | 69 | 112  | 120  | M10 | 200 | 190 | 128 | 160 | 160 | 521  | 452  | 12,5 | 100 | 170 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-160/222.2/.1  | 32               | 69 | 112  | 120  | M10 | 200 | 190 | 128 | 160 | 160 | 528  | 459  | 12,5 | 100 | 170 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-160/302       | 32               | 69 | 112  | 120  | M10 | 250 | 213 | 135 | 160 | 160 | 566  | 497  | 12,5 | 100 | 184 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-200/402       | 32               | 95 | 129  | 135  | M10 | 250 | 234 | 148 | 190 | 190 | 609  | 514  | 12,5 | 100 | 180 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-200/552.2/.1  | 32               | 95 | 129  | 135  | M10 | 300 | 266 | 167 | 190 | 190 | 697  | 602  | 12,5 | 100 | 203 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 32-200/752       | 32               | 95 | 129  | 135  | M10 | 300 | 266 | 167 | 190 | 190 | 697  | 602  | 12,5 | 100 | 203 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-160/222       | 40               | 80 | 112  | 119  | M10 | 200 | 190 | 128 | 160 | 160 | 540  | 460  | 12,5 | 100 | 171 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-160/302.2/.1  | 40               | 80 | 112  | 119  | M10 | 250 | 213 | 135 | 160 | 160 | 578  | 498  | 12,5 | 100 | 185 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-160/402       | 40               | 80 | 112  | 119  | M10 | 250 | 234 | 148 | 160 | 160 | 599  | 519  | 12,5 | 100 | 185 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/402       | 40               | 95 | 161  | 168  | M10 | 250 | 234 | 148 | 220 | 220 | 609  | 514  | 12,5 | 100 | 180 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/552.2/.1  | 40               | 95 | 161  | 168  | M10 | 300 | 266 | 167 | 220 | 220 | 697  | 602  | 12,5 | 100 | 203 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/752.2/.1  | 40               | 95 | 161  | 168  | M10 | 300 | 266 | 167 | 220 | 220 | 697  | 602  | 12,5 | 100 | 203 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/1102.2/.1 | 40               | 95 | 161  | 168  | M10 | 350 | 325 | 197 | 220 | 220 | 877  | 782  | 12,5 | 100 | 236 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/1502.2/.1 | 40               | 95 | 161  | 168  | M10 | 350 | 325 | 197 | 220 | 220 | 877  | 782  | 12,5 | 100 | 236 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 40-250/1852      | 40               | 95 | 161  | 168  | M10 | 350 | 325 | 197 | 220 | 220 | 877  | 782  | 12,5 | 100 | 236 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 50-160/152       | 50               | 85 | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 543  | 458  | 12,5 | 100 | 176 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 50-160/222       | 50               | 85 | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 550  | 465  | 12,5 | 100 | 176 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 50-160/302       | 50               | 85 | 113  | 125  | M10 | 250 | 213 | 135 | 170 | 170 | 588  | 503  | 12,5 | 100 | 190 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |
| 50-160/402.2/.1  | 50               | 85 | 113  | 125  | M10 | 250 | 234 | 148 | 170 | 170 | 609  | 524  | 12,5 | 100 | 190 | Rc ⅔                                           | -   | Rc ⅔                  | 175 | 190 |

**Dimensioni Etaline**
**Motori a 2 poli**

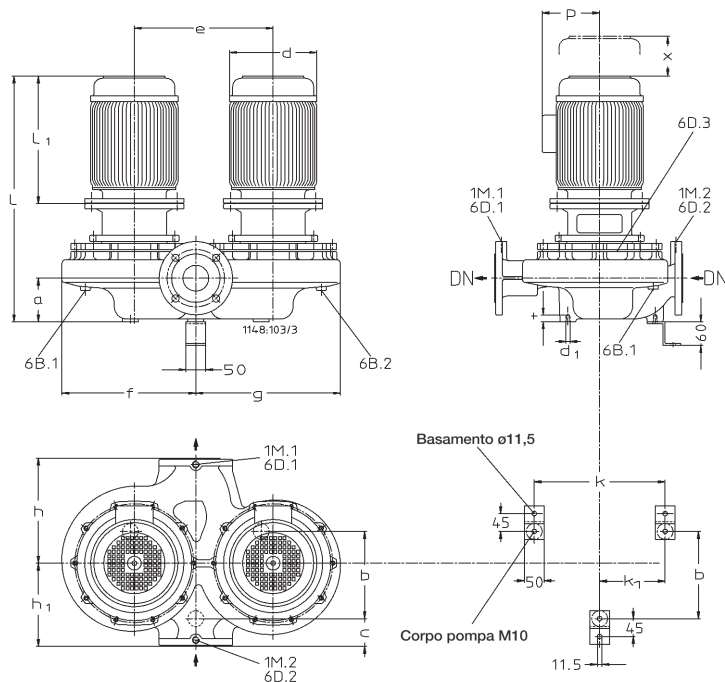
mm - Tolleranze secondo EN 735

| Etaline            | DN <sup>1)</sup> | a   | b1 ≈ | b2 ≈ | d1  | d2  | d3  | p   | h1  | h2  | l1 ≈ | l2 ≈ | t    | x ≈ | w   | 1M.1/.2 <sup>2)</sup><br>6B.1/.3 <sup>2)</sup> | 6B2    | 6D.1/.2 <sup>2)</sup> | m   | o   |
|--------------------|------------------|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------------------------------------------------|--------|-----------------------|-----|-----|
| 50-160/552         | 50               | 85  | 113  | 125  | M10 | 300 | 266 | 167 | 170 | 170 | 697  | 612  | 12,5 | 100 | 213 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-160/752         | 50               | 85  | 113  | 125  | M10 | 300 | 266 | 167 | 170 | 170 | 697  | 612  | 12,5 | 100 | 213 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-250/752         | 50               | 100 | 160  | 175  | M10 | 300 | 266 | 167 | 220 | 220 | 707  | 607  | 12,5 | 100 | 208 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-250/1102.2/.1   | 50               | 100 | 160  | 175  | M10 | 350 | 325 | 197 | 220 | 220 | 887  | 787  | 12,5 | 100 | 241 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-250/1502        | 50               | 100 | 160  | 175  | M10 | 350 | 325 | 197 | 220 | 220 | 887  | 787  | 12,5 | 100 | 241 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-250/1852.2/.1   | 50               | 100 | 160  | 175  | M10 | 350 | 325 | 197 | 220 | 220 | 887  | 787  | 12,5 | 100 | 241 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 50-250-2202        | 50               | 100 | 160  | 175  | M10 | 350 | 370 | 258 | 220 | 220 | 951  | 851  | 12,5 | 100 | 241 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 190 |
| 65-160/222.2/.1    | 65               | 100 | 113  | 125  | M10 | 200 | 190 | 128 | 170 | 170 | 565  | 465  | 12,5 | 100 | 176 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-160/302.2/.1    | 65               | 100 | 113  | 125  | M10 | 250 | 213 | 135 | 170 | 170 | 603  | 503  | 12,5 | 100 | 190 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-160/402.2/.1    | 65               | 100 | 113  | 125  | M10 | 250 | 234 | 148 | 170 | 170 | 624  | 524  | 12,5 | 100 | 190 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-160/552.2/.1    | 65               | 100 | 113  | 125  | M10 | 300 | 266 | 167 | 170 | 170 | 712  | 612  | 12,5 | 100 | 213 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-160/752.2/.1    | 65               | 100 | 113  | 125  | M10 | 300 | 266 | 167 | 170 | 170 | 712  | 612  | 12,5 | 100 | 213 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-160/1102        | 65               | 100 | 113  | 125  | M10 | 350 | 325 | 197 | 170 | 170 | 892  | 792  | 12,5 | 100 | 246 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 210 |
| 65-250/752         | 65               | 105 | 167  | 190  | M10 | 300 | 266 | 167 | 225 | 250 | 722  | 617  | 12,5 | 100 | 218 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 65-250/1102.2/.1   | 65               | 105 | 167  | 190  | M10 | 350 | 325 | 197 | 225 | 250 | 902  | 797  | 12,5 | 100 | 251 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 65-250/1502.2/.1   | 65               | 105 | 167  | 190  | M10 | 350 | 325 | 197 | 225 | 250 | 902  | 797  | 12,5 | 100 | 251 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 65-250/1852.2/.1   | 65               | 105 | 167  | 190  | M10 | 350 | 325 | 197 | 225 | 250 | 902  | 797  | 12,5 | 100 | 251 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 65-250/2202.2/.1   | 65               | 105 | 167  | 190  | M10 | 350 | 370 | 258 | 225 | 250 | 966  | 861  | 12,5 | 100 | 251 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 65-250/3002        | 65               | 105 | 167  | 190  | M10 | 400 | 422 | 305 | 225 | 250 | 1025 | 920  | 12,5 | 100 | 251 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-160/402         | 80               | 97  | 113  | 135  | M10 | 250 | 234 | 148 | 180 | 180 | 631  | 534  | 12,5 | 100 | 200 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-160/552.3/.2/.1 | 80               | 97  | 113  | 135  | M10 | 300 | 266 | 167 | 180 | 180 | 719  | 622  | 12,5 | 100 | 223 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-160/752.2/.1    | 80               | 97  | 113  | 135  | M10 | 300 | 266 | 167 | 180 | 180 | 719  | 622  | 12,5 | 100 | 223 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-160/1102.2/.1   | 80               | 97  | 113  | 135  | M10 | 350 | 325 | 197 | 180 | 180 | 899  | 802  | 12,5 | 100 | 256 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-160/1502        | 80               | 97  | 113  | 135  | M10 | 350 | 325 | 197 | 180 | 180 | 899  | 802  | 12,5 | 100 | 256 | Rc 3/8                                         | -      | Rc 3/8                | 175 | 230 |
| 80-210/1852        | 80               | 151 | 140  | 160  | M10 | 350 | 325 | 197 | 250 | 250 | 923  | 772  | 12,5 | 140 | 226 | Rc 3/8                                         | Rc 3/8 | Rc 3/8                | 195 | 230 |
| 80-210/2202        | 80               | 151 | 140  | 160  | M10 | 350 | 370 | 258 | 250 | 250 | 987  | 836  | 12,5 | 140 | 226 | Rc 3/8                                         | Rc 3/8 | Rc 3/8                | 195 | 230 |
| 80-210/3002        | 80               | 151 | 140  | 160  | M10 | 400 | 422 | 305 | 250 | 250 | 1046 | 895  | 12,5 | 140 | 226 | Rc 3/8                                         | Rc 3/8 | Rc 3/8                | 195 | 230 |
| 80-210/3702        | 80               | 151 | 140  | 160  | M10 | 400 | 422 | 305 | 250 | 250 | 1046 | 895  | 12,5 | 140 | 226 | Rc 3/8                                         | Rc 3/8 | Rc 3/8                | 195 | 230 |
| 100-125/402        | 100              | 121 | 113  | 153  | M10 | 250 | 234 | 148 | 230 | 220 | 634  | 513  | 12,5 | 100 | 179 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-125/552        | 100              | 121 | 113  | 153  | M10 | 300 | 266 | 167 | 230 | 220 | 722  | 601  | 12,5 | 100 | 202 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-125/752.2/.1   | 100              | 121 | 113  | 153  | M10 | 300 | 266 | 167 | 230 | 220 | 722  | 601  | 12,5 | 100 | 202 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-125/1102       | 100              | 121 | 113  | 153  | M10 | 350 | 325 | 197 | 230 | 220 | 902  | 781  | 12,5 | 100 | 235 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-160/1102.2/.1  | 100              | 118 | 114  | 144  | M10 | 350 | 325 | 197 | 250 | 200 | 907  | 789  | 12,5 | 100 | 243 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-160/1502       | 100              | 118 | 114  | 144  | M10 | 350 | 325 | 197 | 250 | 200 | 907  | 789  | 12,5 | 100 | 243 | Rc 1/2                                         | -      | Rc 1/2                | 195 | 230 |
| 100-170/1502       | 100              | 157 | 121  | 155  | M20 | 350 | 325 | 197 | 245 | 205 | 949  | 792  | 25,0 | 100 | 246 | Rc 1/2                                         | -      | Rc 1/2                | -   | -   |
| 100-170/1852       | 100              | 157 | 121  | 155  | M20 | 350 | 325 | 197 | 245 | 205 | 949  | 792  | 25,0 | 100 | 246 | Rc 1/2                                         | -      | Rc 1/2                | -   | -   |
| 100-170/2202       | 100              | 157 | 121  | 155  | M20 | 350 | 370 | 258 | 245 | 205 | 1013 | 856  | 25,0 | 100 | 246 | Rc 1/2                                         | -      | Rc 1/2                | -   | -   |
| 125-160/2202       | 125              | 203 | 173  | 220  | M20 | 350 | 370 | 258 | 340 | 280 | 1059 | 856  | 25,0 | 140 | 246 | Rc 1/2                                         | Rc 1/2 | Rc 1/2                | -   | -   |
| 125-200/3002       | 125              | 207 | 175  | 213  | M20 | 400 | 422 | 305 | 340 | 280 | 1122 | 915  | 25,0 | 140 | 246 | Rc 1/2                                         | Rc 1/2 | Rc 1/2                | -   | -   |
| 125-200/3702       | 125              | 207 | 175  | 213  | M20 | 400 | 422 | 305 | 340 | 280 | 1122 | 915  | 25,0 | 140 | 246 | Rc 1/2                                         | Rc 1/2 | Rc 1/2                | -   | -   |
| 125-200/4502       | 125              | 207 | 175  | 213  | M20 | 450 | 468 | 305 | 340 | 280 | 1199 | 992  | 25,0 | 140 | 270 | Rc 1/2                                         | Rc 1/2 | Rc 1/2                | -   | -   |

2

Dimensioni Etaline Z

Motori a 4 poli



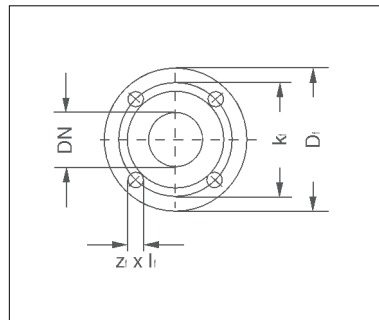
|            |                                     |
|------------|-------------------------------------|
| 1 M.1 / .2 | Attacco per il manometro            |
| 6 B.1 / .2 | Tappo per scarico liquido           |
| 6 D.1 / .2 | Tappo per riempimento e spurgo aria |
| 6 D.1 / .2 | Tappo per riempimento e spurgo aria |

<sup>1)</sup> DN = EN 1092-2, PN 16 (precedentemente DIN 2533)

<sup>2)</sup> Rc = ISO 7/1

<sup>3)</sup> Misure approssimative

<sup>4)</sup> Quota minima per lo smontaggio



Flange PN 16, DIN 2533  
mm

| DN  | PN | D <sub>r</sub> | k <sub>r</sub> | z <sub>r</sub> | l <sub>r</sub> |
|-----|----|----------------|----------------|----------------|----------------|
| 32  | 16 | 140            | 100            | 4              | 18             |
| 40  | 16 | 150            | 110            | 4              | 18             |
| 50  | 16 | 165            | 125            | 4              | 18             |
| 65  | 16 | 185            | 145            | 4              | 18             |
| 80  | 16 | 200            | 160            | 8              | 18             |
| 100 | 16 | 220            | 180            | 8              | 18             |
| 125 | 16 | 250            | 210            | 8              | 18             |
| 150 | 16 | 285            | 240            | 8              | 22             |
| 200 | 16 | 340            | 295            | 8              | 22             |

mm - Tolleranze secondo EN 735

| Etaline Z      | DN <sup>1)</sup> | a   | b   | c  | d ≈ | d1  | e   | f ≈ | g ≈ | h   | h1  | k   | k1    | l ≈ | l1 ≈ | p   | t    | x <sup>4)</sup> | 6B.1/2 <sup>2)</sup><br>6D.1/2 <sup>2)</sup><br>1M.1/2 <sup>2)</sup> | 6D.3 <sup>2)</sup> |
|----------------|------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|------|-----|------|-----------------|----------------------------------------------------------------------|--------------------|
| 32-160/024     | 32               | 75  | 140 | 70 | 145 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 442 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-160/034.2/1 | 32               | 75  | 140 | 70 | 145 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 442 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-160/054     | 32               | 75  | 140 | 70 | 162 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 496 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/054     | 32               | 105 | 180 | 70 | 162 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 516 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/074.2/1 | 32               | 105 | 180 | 70 | 162 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 516 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/114     | 32               | 105 | 180 | 70 | 190 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 543 | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/024     | 40               | 85  | 140 | 70 | 145 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 442 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/034.2/1 | 40               | 85  | 140 | 70 | 145 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 442 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/054     | 40               | 85  | 140 | 70 | 162 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 496 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/074.2/1 | 40               | 101 | 224 | 70 | 162 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 521 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/114.2/1 | 40               | 101 | 224 | 70 | 190 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 548 | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/154.2/1 | 40               | 101 | 224 | 70 | 190 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 555 | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/224.2/1 | 40               | 101 | 224 | 70 | 213 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 593 | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/304     | 40               | 101 | 224 | 70 | 213 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 593 | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/034.2/1 | 50               | 110 | 160 | 70 | 145 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 467 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/054.2/1 | 50               | 110 | 160 | 70 | 162 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 521 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/074.2/1 | 50               | 110 | 160 | 70 | 162 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 521 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/114     | 50               | 110 | 160 | 70 | 190 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 548 | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/114     | 50               | 110 | 220 | 70 | 190 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 548 | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/154.2/1 | 50               | 110 | 220 | 70 | 190 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 555 | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/224.2/1 | 50               | 110 | 220 | 70 | 213 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 593 | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/304     | 50               | 110 | 220 | 70 | 213 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 662 | 382  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/034     | 65               | 120 | 170 | 70 | 145 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 477 | 221  | 111 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/054.2/1 | 65               | 120 | 170 | 70 | 162 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 531 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/074.2/1 | 65               | 120 | 170 | 70 | 162 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 531 | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/114.2/1 | 65               | 120 | 170 | 70 | 190 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 558 | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/154     | 65               | 120 | 170 | 70 | 190 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 565 | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-250/154.2/1 | 65               | 110 | 220 | 70 | 190 | M10 | 350 | 338 | 365 | 265 | 210 | 330 | 165,0 | 575 | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-250/224.2/1 | 65               | 110 | 220 | 70 | 213 | M10 | 350 | 338 | 365 | 265 | 210 | 330 | 165,0 | 613 | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-250/304.2/1 | 65               | 110 | 220 | 70 | 213 | M10 | 350 | 338 | 365 | 265 | 210 | 330 | 165,0 | 613 | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-250/404.2/1 | 65               | 110 | 220 | 70 | 234 | M10 | 350 | 338 | 365 | 265 | 210 | 330 | 165,0 | 634 | 334  | 148 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-250/554     | 65               | 110 | 220 | 70 | 266 | M10 | 350 | 338 | 365 | 265 | 210 | 330 | 165,0 | 722 | 399  | 167 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |



**Dimensioni Etaline Z**
**Motori a 4 poli**

mm - Tolleranze secondo EN 735

| Etaline Z          | DN <sup>1)</sup> | a   | b   | c   | d ≈ | d1  | e   | f ≈ | g ≈ | h   | h1  | k   | k1    | l ≈  | l1 ≈ | p   | t    | x <sup>4)</sup> | 6B.1/2 <sup>2)</sup><br>6D.1/2 <sup>2)</sup><br>1M.1/2 <sup>2)</sup> | 6D.3 <sup>2)</sup> |
|--------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|-----|------|-----------------|----------------------------------------------------------------------|--------------------|
| 80-160/074.2/1     | 80               | 120 | 175 | 70  | 162 | M10 | 324 | 290 | 280 | 195 | 165 | 324 | 162,0 | 541  | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 80-160/114.2/1     | 80               | 120 | 175 | 70  | 190 | M10 | 324 | 290 | 280 | 195 | 165 | 324 | 162,0 | 568  | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 80-160/154         | 80               | 120 | 175 | 70  | 190 | M10 | 324 | 290 | 280 | 195 | 165 | 324 | 162,0 | 575  | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 80-250/224.2/1     | 80               | 109 | 224 | 70  | 213 | M10 | 345 | 333 | 362 | 290 | 210 | 345 | 172,5 | 612  | 313  | 135 | 12,5 | 140             | Rc 3/8                                                               | Rc 3/8             |
| 80-250/304.2/1     | 80               | 109 | 224 | 70  | 213 | M10 | 345 | 333 | 362 | 290 | 210 | 345 | 172,5 | 612  | 313  | 135 | 12,5 | 140             | Rc 3/8                                                               | Rc 3/8             |
| 80-250/404.2/1     | 80               | 109 | 224 | 70  | 234 | M10 | 345 | 333 | 362 | 290 | 210 | 345 | 172,5 | 633  | 334  | 148 | 12,5 | 140             | Rc 3/8                                                               | Rc 3/8             |
| 80-250/554         | 80               | 109 | 224 | 70  | 266 | M10 | 345 | 333 | 362 | 290 | 210 | 345 | 172,5 | 721  | 399  | 167 | 12,5 | 140             | Rc 3/8                                                               | Rc 3/8             |
| 100-200/224        | 100              | 195 | 280 | 98  | 213 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 698  | 313  | 135 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-200/304.2/1    | 100              | 195 | 280 | 98  | 213 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 698  | 313  | 135 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-200/404.2/1    | 100              | 195 | 280 | 98  | 234 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 719  | 334  | 148 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-200/554        | 100              | 195 | 280 | 98  | 266 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 807  | 399  | 167 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/404        | 100              | 195 | 270 | 105 | 234 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 719  | 334  | 148 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/554.3/2.1  | 100              | 195 | 270 | 105 | 266 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 807  | 399  | 167 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/754.2/1    | 100              | 195 | 270 | 105 | 298 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 829  | 421  | 167 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/1104       | 100              | 195 | 270 | 105 | 325 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 987  | 546  | 197 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/224        | 125              | 221 | 265 | 95  | 213 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 724  | 313  | 135 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/304.2/1    | 125              | 221 | 265 | 95  | 213 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 724  | 313  | 135 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/404.2/1    | 125              | 221 | 265 | 95  | 234 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 745  | 334  | 148 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/554.2/1    | 125              | 221 | 265 | 95  | 266 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 833  | 399  | 167 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/754        | 125              | 221 | 265 | 95  | 298 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 855  | 421  | 167 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-250/404        | 125              | 226 | 300 | 85  | 234 | M16 | 400 | 409 | 389 | 360 | 260 | 400 | 200,0 | 750  | 334  | 148 | 20,0 | 145             | Rc 1/2                                                               | Rc 3/8             |
| 125-250/554        | 125              | 226 | 300 | 85  | 266 | M16 | 400 | 409 | 389 | 360 | 260 | 400 | 200,0 | 838  | 399  | 167 | 20,0 | 145             | Rc 1/2                                                               | Rc 3/8             |
| 125-250/754.3/2.1  | 125              | 226 | 300 | 85  | 298 | M16 | 400 | 409 | 389 | 360 | 260 | 400 | 200,0 | 860  | 421  | 167 | 20,0 | 145             | Rc 1/2                                                               | Rc 3/8             |
| 125-250/1104.2/1   | 125              | 226 | 300 | 85  | 325 | M16 | 400 | 409 | 389 | 360 | 260 | 400 | 200,0 | 1018 | 546  | 197 | 20,0 | 145             | Rc 1/2                                                               | Rc 3/8             |
| 125-250/1504       | 125              | 226 | 300 | 85  | 325 | M16 | 400 | 409 | 389 | 360 | 260 | 400 | 200,0 | 1018 | 546  | 197 | 20,0 | 145             | Rc 1/2                                                               | Rc 3/8             |
| 150-250/754.2/1    | 150              | 256 | 320 | 120 | 298 | M16 | 600 | 560 | 534 | 400 | 300 | 600 | 300,0 | 890  | 421  | 167 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 150-250/1104.3/2.1 | 150              | 256 | 320 | 120 | 325 | M16 | 600 | 560 | 534 | 400 | 300 | 600 | 300,0 | 1048 | 546  | 197 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 150-250/1504.2/1   | 150              | 256 | 320 | 120 | 325 | M16 | 600 | 560 | 534 | 400 | 300 | 600 | 300,0 | 1048 | 546  | 197 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 150-250/1854       | 150              | 256 | 320 | 120 | 370 | M16 | 600 | 560 | 534 | 400 | 300 | 600 | 300,0 | 1112 | 610  | 258 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 200-250/1104       | 200              | 281 | 410 | 210 | 325 | M16 | 600 | 585 | 537 | 530 | 470 | 600 | 300,0 | 1073 | 546  | 197 | 20,0 | 160             | Rc 1/2                                                               | Rc 3/8             |
| 200-250/1504.3/2.1 | 200              | 281 | 410 | 210 | 325 | M16 | 600 | 585 | 537 | 530 | 470 | 600 | 300,0 | 1073 | 546  | 197 | 20,0 | 160             | Rc 1/2                                                               | Rc 3/8             |
| 200-250/1854.2/1   | 200              | 281 | 410 | 210 | 370 | M16 | 600 | 585 | 537 | 530 | 470 | 600 | 300,0 | 1137 | 610  | 258 | 20,0 | 160             | Rc 1/2                                                               | Rc 3/8             |
| 200-250/2204.2/1   | 200              | 281 | 410 | 210 | 370 | M16 | 600 | 585 | 537 | 530 | 470 | 600 | 300,0 | 1137 | 610  | 258 | 20,0 | 160             | Rc 1/2                                                               | Rc 3/8             |
| 200-250/3004       | 200              | 281 | 410 | 210 | 422 | M16 | 600 | 585 | 537 | 530 | 470 | 600 | 300,0 | 1196 | 669  | 305 | 20,0 | 160             | Rc 1/2                                                               | Rc 3/8             |
| 200-315/3004.3/2.1 | 200              | 287 | 410 | 220 | 422 | M16 | 580 | 594 | 554 | 520 | 480 | 580 | 290,0 | 1214 | 669  | 305 | 20,0 | 185             | Rc 1/2                                                               | Rc 3/8             |
| 200-315/3704.3/2.1 | 200              | 287 | 410 | 220 | 460 | M16 | 580 | 594 | 554 | 520 | 480 | 580 | 290,0 | 1265 | 690  | 305 | 20,0 | 185             | Rc 1/2                                                               | Rc 3/8             |
| 200-315/4504.2/1   | 200              | 287 | 410 | 220 | 468 | M16 | 580 | 594 | 554 | 520 | 480 | 580 | 290,0 | 1297 | 722  | 305 | 20,0 | 185             | Rc 1/2                                                               | Rc 3/8             |
| 200-315/5504       | 200              | 287 | 410 | 220 | 520 | M16 | 580 | 594 | 554 | 520 | 480 | 580 | 290,0 | 1365 | 790  | 427 | 20,0 | 185             | Rc 1/2                                                               | Rc 3/8             |

2

**Dimensioni Etaline Z**
**Motori a 2 poli**

mm - Tolleranze secondo EN 735

| Etaline Z        | DN <sup>1)</sup> | a   | b   | c   | d ≈ | d1  | e   | f ≈ | g ≈ | h   | h1  | k   | k1    | l ≈  | l1 ≈ | p   | t    | x <sup>4)</sup> | 6B.1/2 <sup>2)</sup><br>6D.1/2 <sup>2)</sup><br>1M.1/2 <sup>2)</sup> | 6D.3 <sup>2)</sup> |
|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|-----|------|-----------------|----------------------------------------------------------------------|--------------------|
| 32-160/112.2/1   | 32               | 75  | 140 | 70  | 162 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 496  | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-160/152.2/1   | 32               | 75  | 140 | 70  | 190 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 523  | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-160/222       | 32               | 75  | 140 | 70  | 190 | M10 | 235 | 235 | 230 | 170 | 150 | 235 | 117,5 | 530  | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/222       | 32               | 105 | 180 | 70  | 190 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 550  | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/302.2/1   | 32               | 105 | 180 | 70  | 213 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 588  | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 32-200/402       | 32               | 105 | 180 | 70  | 234 | M10 | 285 | 274 | 269 | 190 | 190 | 285 | 142,5 | 609  | 334  | 148 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/112       | 40               | 85  | 140 | 70  | 162 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 496  | 255  | 120 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/152.2/1   | 40               | 85  | 140 | 70  | 190 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 523  | 282  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-160/222.2/1   | 40               | 85  | 140 | 70  | 190 | M10 | 250 | 242 | 237 | 170 | 150 | 250 | 125,0 | 530  | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/552       | 40               | 101 | 224 | 70  | 266 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 702  | 399  | 167 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 40-250/752       | 40               | 101 | 224 | 70  | 266 | M10 | 330 | 303 | 348 | 220 | 220 | 330 | 190,0 | 702  | 399  | 167 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/302.2/1   | 50               | 110 | 160 | 70  | 213 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 593  | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-160/402       | 50               | 110 | 160 | 70  | 234 | M10 | 270 | 254 | 245 | 180 | 160 | 270 | 135,0 | 614  | 334  | 148 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/1102      | 50               | 110 | 220 | 70  | 325 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 882  | 546  | 197 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/1502      | 50               | 110 | 220 | 70  | 325 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 882  | 546  | 197 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/1852      | 50               | 110 | 220 | 70  | 325 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 882  | 546  | 197 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 50-250/2202      | 50               | 110 | 220 | 70  | 370 | M10 | 380 | 362 | 352 | 220 | 220 | 380 | 190,0 | 946  | 610  | 258 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/222       | 65               | 120 | 170 | 70  | 190 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 565  | 289  | 128 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/302.2/1   | 65               | 120 | 170 | 70  | 213 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 603  | 313  | 135 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 65-160/402       | 65               | 120 | 170 | 70  | 234 | M10 | 285 | 263 | 255 | 180 | 160 | 285 | 142,5 | 624  | 334  | 148 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 80-160/552       | 80               | 120 | 175 | 70  | 266 | M10 | 324 | 290 | 280 | 195 | 165 | 324 | 162,0 | 722  | 399  | 167 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 80-160/752       | 80               | 120 | 175 | 70  | 266 | M10 | 324 | 290 | 280 | 195 | 165 | 324 | 162,0 | 722  | 399  | 167 | 12,5 | 100             | Rc 3/8                                                               | Rc 1/4             |
| 100-200/1502     | 100              | 195 | 280 | 98  | 325 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 987  | 546  | 197 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-200/1852.2/1 | 100              | 195 | 280 | 98  | 325 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 987  | 546  | 197 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-200/2202     | 100              | 195 | 280 | 98  | 370 | M16 | 410 | 394 | 376 | 280 | 270 | 410 | 205,0 | 1051 | 610  | 258 | 20,0 | 150             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/3002     | 100              | 195 | 270 | 105 | 422 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 1110 | 669  | 305 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/3702.2/1 | 100              | 195 | 270 | 105 | 422 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 1110 | 669  | 305 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 100-250/4502     | 100              | 195 | 270 | 105 | 468 | M16 | 480 | 452 | 438 | 295 | 255 | 480 | 240,0 | 1187 | 722  | 305 | 20,0 | 140             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/1852     | 125              | 221 | 265 | 95  | 325 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 1013 | 546  | 197 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |
| 125-200/2202     | 125              | 221 | 265 | 95  | 370 | M16 | 380 | 394 | 366 | 345 | 275 | 550 | 275,0 | 1077 | 610  | 258 | 20,0 | 155             | Rc 1/2                                                               | Rc 3/8             |



## Riepilogo delle particolarità costruttive

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### Girante

con idraulica ottimizzata, garantisce rendimenti elevati con fori di equilibratura

### Bussola protezione albero

in acciaio inox al CrNiMo, sostituibile con facilità, per combinare la maggior resistenza dell'albero con le condizioni di lavoro ottimali per la tenuta meccanica e la facile manutenibilità

### Anelli di usura

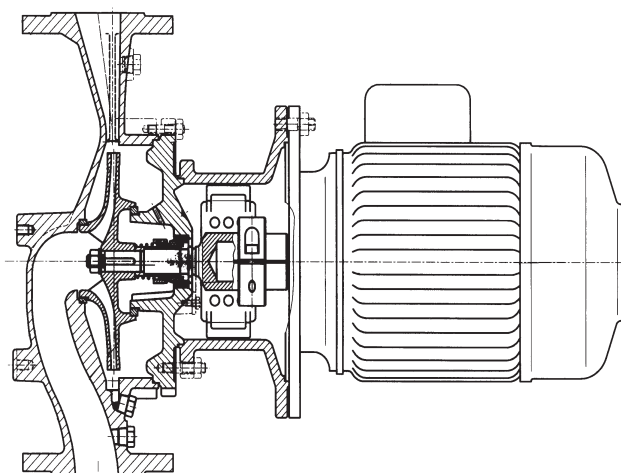
sull'aspirazione del corpo e sulla girante in ghisa, di facile sostituzione

### Canale di comunicazione

tra camera della tenuta e mandata per evitare la formazione di vapore ed il ristagno di impurità nella camera della tenuta meccanica

### Giunto d'accoppiamento

pompa / motore rigido con soluzione ad innesto dell'albero rotore nella sede del giunto



### Corpo pompa

PN 16 bar, per una maggior sicurezza di esercizio

### Motore normalizzato

standard per tutte grandezze a 4 e 2 poli

### Tre PTC collegati in serie

integrati nell'avvolgimento per la protezione da sovraccarico

### Tenuta meccanica

non raffreddata, esente da manutenzione

### Valvole di spurgo aria

per disareare la camera della tenuta e impedire il funzionamento a secco nella versione gemellare

### Albero in acciaio C45

per conferire maggior resistenza meccanica rispetto all'acciaio inox

