

Catalogue 2012

**50Hz**



**CM** normalizzate  
**CA • 4CA • MS**





Italia

# CERTIFICATO

Nr 50 100 3634 - Rev. 02

Si attesta che / *This is to certify that*

IL SISTEMA DI QUALITÀ DI  
THE QUALITY SYSTEM OF

**PENTAX S.p.A.**

**SEDE LEGALE E OPERATIVA:**

**VIA DELL'INDUSTRIA, 1  
I-37040 VERONELLA (VR)**

È CONFORME AI REQUISITI DELLA NORMA  
*HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF*

**UNI EN ISO 9001:2008**

Riferirsi al manuale della qualità per eventuali dettagli delle esclusioni  
ai requisiti della norma ISO 9001:2008  
*Refer to quality manual for possible details of exlusions of requirements  
of the norm ISO 9001:2008*

Questo certificato è valido per il seguente campo di applicazione  
*This certificate is valid for the following product or service range*

**Progettazione e fabbricazione di elettropompe e sistemi di  
pressurizzazione per acque. Commercializzazione di pompe  
sommerse e accessori per pompe (EA 18, 29a)**

***Design and manufacture of electric pumps and pressure systems for  
water. Trade of submersed pumps and accessories for pumps  
(EA 18, 29a)***

**SINCERT**

ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SGQ N° 049A  
SGA N° 018D  
SCR N° 009F  
SSI N° 005G  
PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento EA e IAF  
*Signatory of EA and IAF Mutual Recognition Agreements*

Per l'Organismo di Certificazione  
*For the Certification Body*

**TÜV Italia S.r.l.**

  
**Andrea Vivi**  
Amministratore Delegato - CEO

Data di emissione / *Issue date*

**2009-10-31**

Data di scadenza / *Expiry date*

**2012-10-31**

**Rinnovo del certificato emesso per la prima volta in data 2003-12-22**

"La validità del presente certificato è subordinata a sorveglianza periodica a 12 mesi e al riesame completo del sistema di gestione aziendale con periodicità triennale"

*"The validity of the present certificate depends on the annual surveillance every 12 months and the complete review of company's management system after three-years"*



CENTRIFUGHE / CENTRIFUGAL / CENTRIFUGAS / CENTRIFUGES

**CM normalizzate**

5

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**CA/CAX**

21

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**4CA/4CAX**

37

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MULTIGIRANTI / MULTISTAGE / MULTICELLULARES / MULTICELLULAIRE

**MS**

53







**CARATTERISTICHE COSTRUTTIVE / CONSTRUCTION FEATURES  
CARACTERÍSTICAS CONSTRUCTIVAS / CARACTÉRISTIQUES D'EXÉCUTION**

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Corpo pompa</b>                | ghisa                    |
| <b>Pump body</b>                  | cast iron                |
| <b>Cuerpo bomba</b>               | fundición                |
| <b>Corps de pompe</b>             | fonte                    |
| <b>Supporto motore</b>            | ghisa                    |
| <b>Motor bracket</b>              | cast iron                |
| <b>Soporte motor</b>              | fundición                |
| <b>Support moteur</b>             | fonte                    |
| <b>Girante</b>                    | ghisa o bronzo           |
| <b>Impeller</b>                   | cast iron or bronze      |
| <b>Rodete</b>                     | fundición o bronce       |
| <b>Turbine</b>                    | fonte ou bronze          |
| <b>Tenuta meccanica</b>           | ceramica-grafite         |
| <b>Mechanical seal</b>            | ceramic-graphite         |
| <b>Sello mecánico</b>             | cerámica-grafito         |
| <b>Garniture mécanique</b>        | céramique-graphite       |
| <b>Albero motore</b>              | acciaio AISI 304         |
| <b>Motor shaft</b>                | stainless steel AISI 304 |
| <b>Eje motor</b>                  | acero AISI 304           |
| <b>Arbre moteur</b>               | acier AISI 304           |
| <b>Temperatura del liquido</b>    |                          |
| <b>Liquid temperature</b>         |                          |
| <b>Temperatura del líquido</b>    | -10 ÷ +90 °C             |
| <b>Température du liquide</b>     |                          |
| <b>Pressione di esercizio</b>     |                          |
| <b>Operating pressure</b>         | max 10 bar               |
| <b>Presión de trabajo</b>         |                          |
| <b>Pression de fonctionnement</b> |                          |

**MOTORE / MOTOR / MOTOR / MOTEUR**

|                                     |                  |
|-------------------------------------|------------------|
| <b>Motore 2 poli a induzione</b>    |                  |
| <b>2 pole induction motor</b>       | 3~ 230/400V-50Hz |
| <b>Motor de 2 polos a inducción</b> | 1~ 230V-50Hz     |
| <b>Moteur à induction à 2 pôles</b> |                  |
| <b>Classe di isolamento</b>         |                  |
| <b>Insulation class</b>             | F                |
| <b>Clase de aislamiento</b>         |                  |
| <b>Classe d'isolation</b>           |                  |
| <b>Grado di protezione</b>          |                  |
| <b>Protection degree</b>            | IP55             |
| <b>Grado de protección</b>          |                  |
| <b>Protection</b>                   |                  |

Pompe centrifughe monoblocco ad asse orizzontale costruite secondo le norme EN 733; trovano vasto utilizzo nell'alimentazione idrica, negli impianti di pressurizzazione e antincendio, raffreddamento, riscaldamento, irrigazione, applicazioni agricole e industriali; come standard vengono fornite di controflangia.

Monobloc horizontal centrifugal pumps, constructed to EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications; standard supply with counter-flange.

Bombas centrífugas monobloque de eje horizontal fabricadas según las normas EN 733; se utilizan en gran parte en la alimentación hídrica, en las instalaciones de presurización y antiincendio, enfriamiento, calefacción, riego, aplicaciones agrícolas e industriales; según el estándar se suministran con contrabrida.

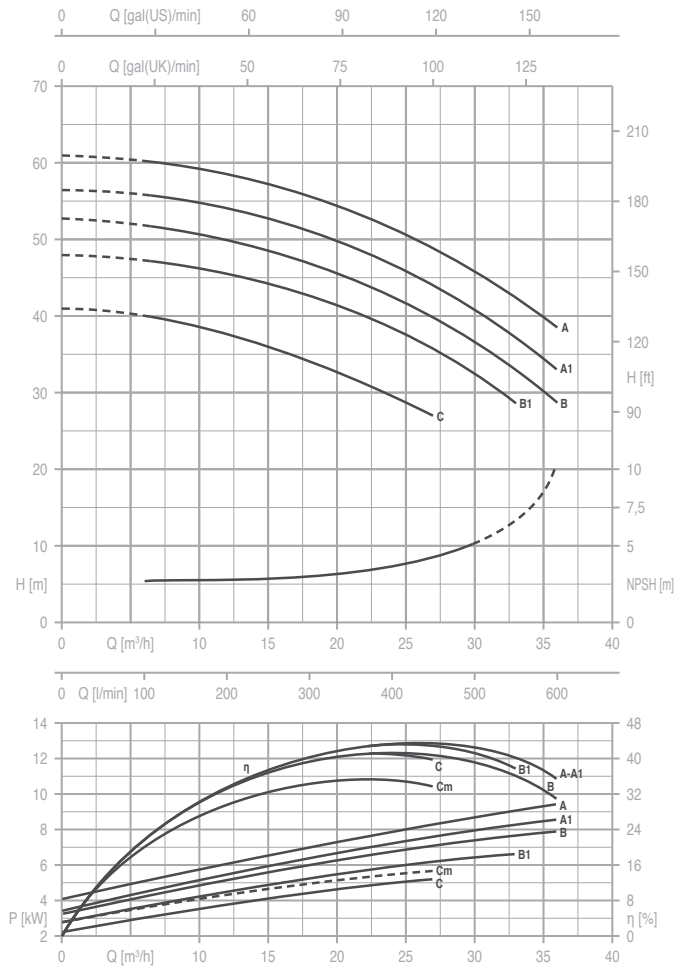
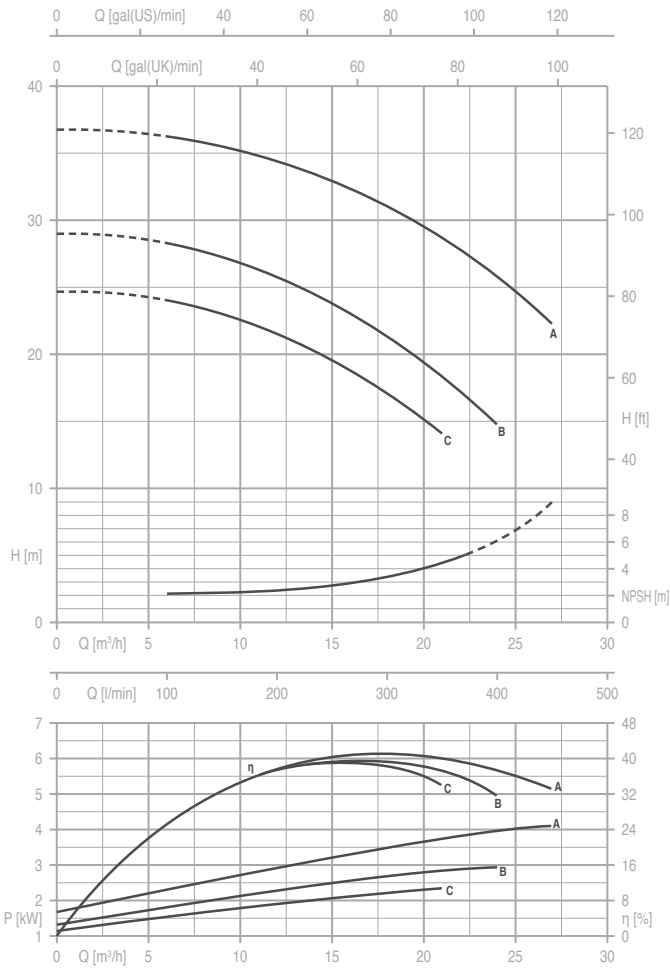
Pompes centrifuges monobloc à axe horizontal, fabriquées conformément aux normes EN 733. Elles trouvent une ample utilisation dans l'approvisionnement d'eau, dans les installations de pressurisation et anti-incendie, refroidissement, chauffage, irrigation, applications agricoles et industrielles; fournies de série avec contre-bride.





CM 32-160

CM 32-200



| TYPE            | P2   |      | P1 (kW) | AMPERE        | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|---------|---------------|------------------|------|------|------|------|------|------|------|------|------|------|
|                 |      |      |         |               | H (m)            |      |      |      |      |      |      |      |      |      |      |
|                 |      |      |         |               | 3~               | 0    | 4.5  | 6    | 7.5  | 9    | 12   | 15   | 18   | 21   | 24   |
| 3~              | (HP) | (kW) | 3~      | 3x400 V 50 Hz | 0                | 75   | 100  | 125  | 150  | 200  | 250  | 300  | 350  | 400  | 450  |
| CM 32-160 C (*) | 2    | 1.5  | 2.3     | 4             | 24.7             | 24.4 | 24.1 | 23.6 | 23.0 | 21.5 | 19.6 | 17.2 | 14.1 | -    | -    |
| CM 32-160 B (*) | 3    | 2.2  | 2.9     | 5.2           | 29.0             | -    | 28.5 | 28.0 | 27.3 | 25.7 | 23.8 | 21.4 | 18.5 | 14.8 | -    |
| CM 32-160 A     | 4    | 3    | 4.1     | 7.1           | 36.8             | -    | 36.4 | 36.0 | 35.4 | 34.2 | 32.8 | 31.1 | 28.8 | 26.0 | 22.3 |

(\*) Disponibile nella versione monofase / Single phase available / Bajo pedido tambien en monofase / Disponible en monofasé

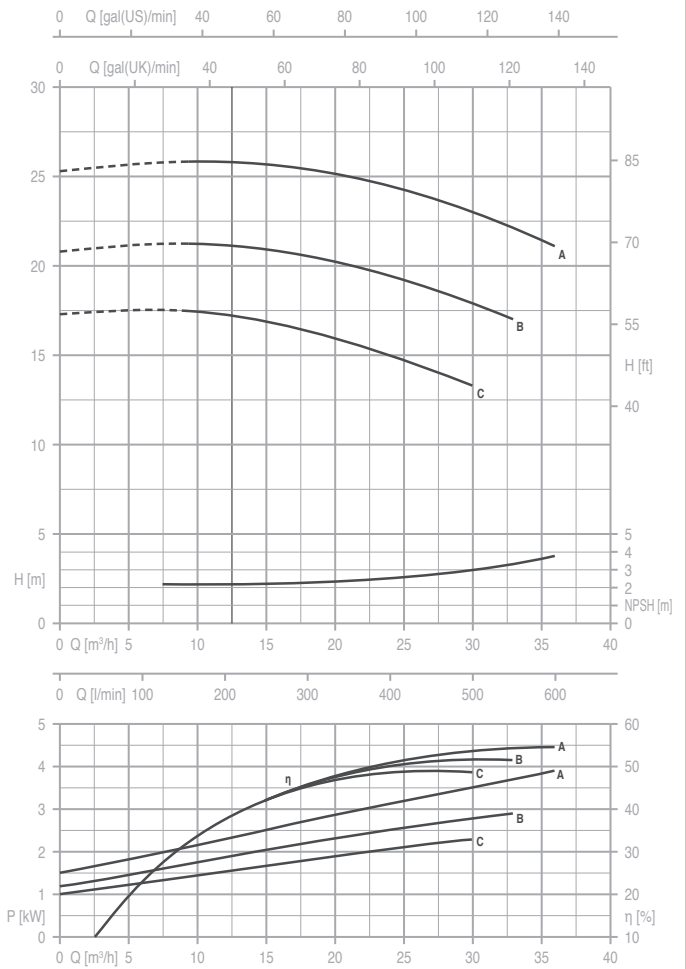
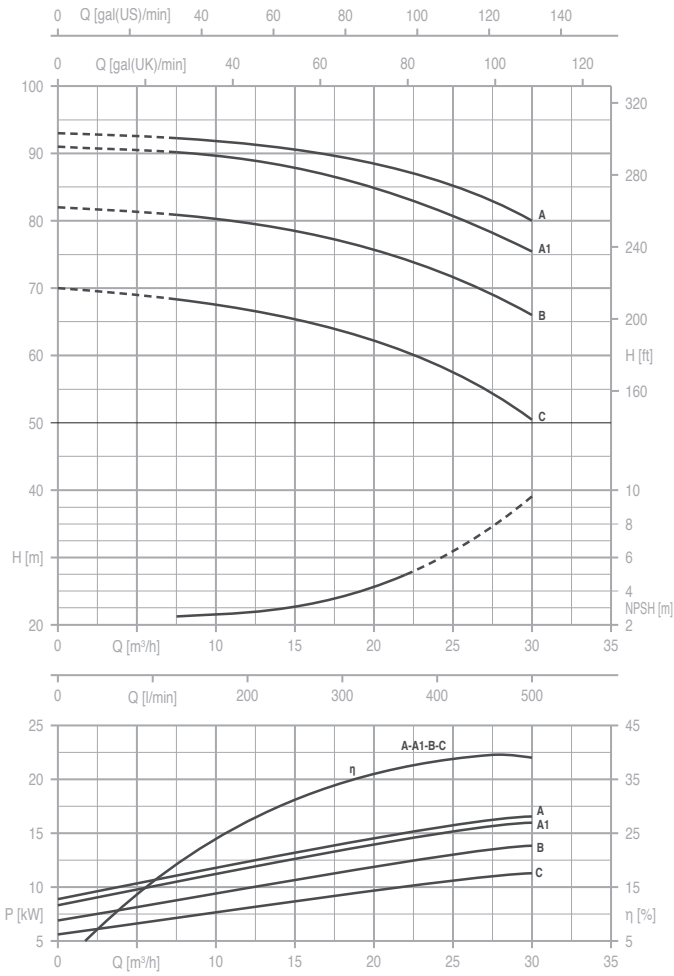
| TYPE            | P2   |      | P1 (kW) | AMPERE        | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|---------|---------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 |      |      |         |               | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |
|                 |      |      |         |               | 3~               | 0    | 6    | 7.5  | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   |
| 3~              | (HP) | (kW) | 3~      | 3x400 V 50 Hz | 0                | 100  | 125  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  |
| CM 32-200 C (*) | 5.5  | 4    | 5.2     | 9.4           | 41               | 40   | 39,5 | 38,9 | 37,5 | 36   | 34,2 | 32,2 | 30   | 27   | -    | -    | -    |
| CM 32-200 B1    | 7.5  | 5.5  | 6.6     | 11.3          | 48               | 47,5 | 47,1 | 46,6 | 45,5 | 44,3 | 42,5 | 40,7 | 38,5 | 35,7 | 32,5 | 28,6 | 24,5 |
| CM 32-200 B     | 7.5  | 5.5  | 8.0     | 13.7          | 52,8             | 52   | 51,5 | 51   | 50   | 48,5 | 46,8 | 45   | 42,7 | 40,1 | 37   | 33,3 | 28,7 |
| CM 32-200 A1    | 10   | 7.5  | 8.5     | 14.6          | 56,5             | 56   | 55,6 | 55,2 | 54   | 52,8 | 51   | 49,2 | 47   | 44,2 | 41   | 37,1 | 33   |
| CM 32-200 A     | 10   | 7.5  | 9.9     | 16.5          | 61               | 60,5 | 60,1 | 59,6 | 58,5 | 57,2 | 55,5 | 53,7 | 51,5 | 49   | 46,2 | 42,7 | 38,5 |

(\*) Disponibile nella versione monofase / Single phase available / Bajo pedido tambien en monofase / Disponible en monofasé



**CM 32-250**

**CM 40-125**



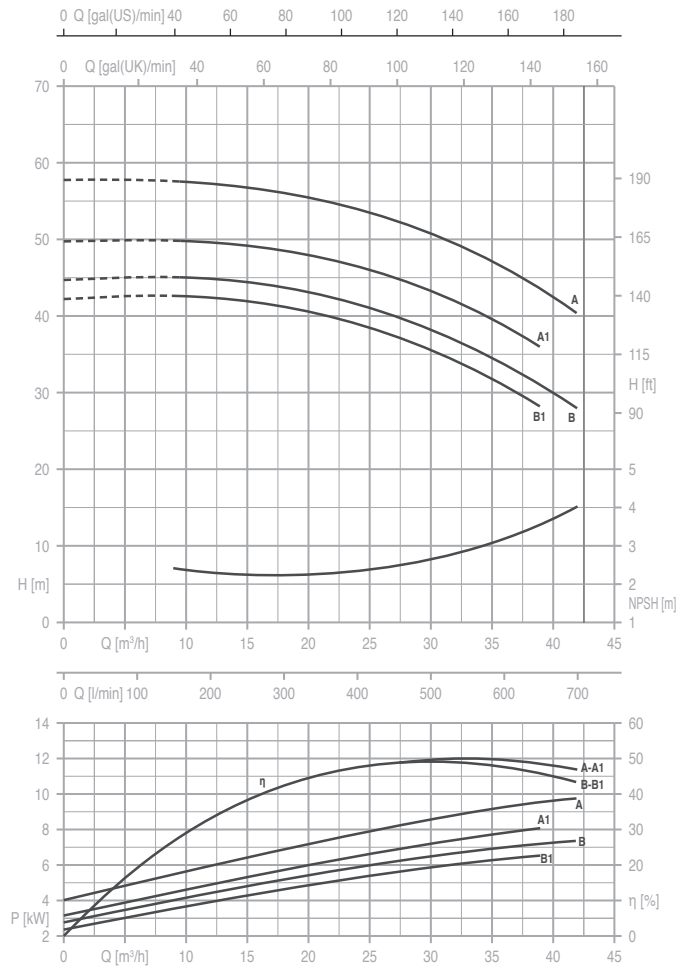
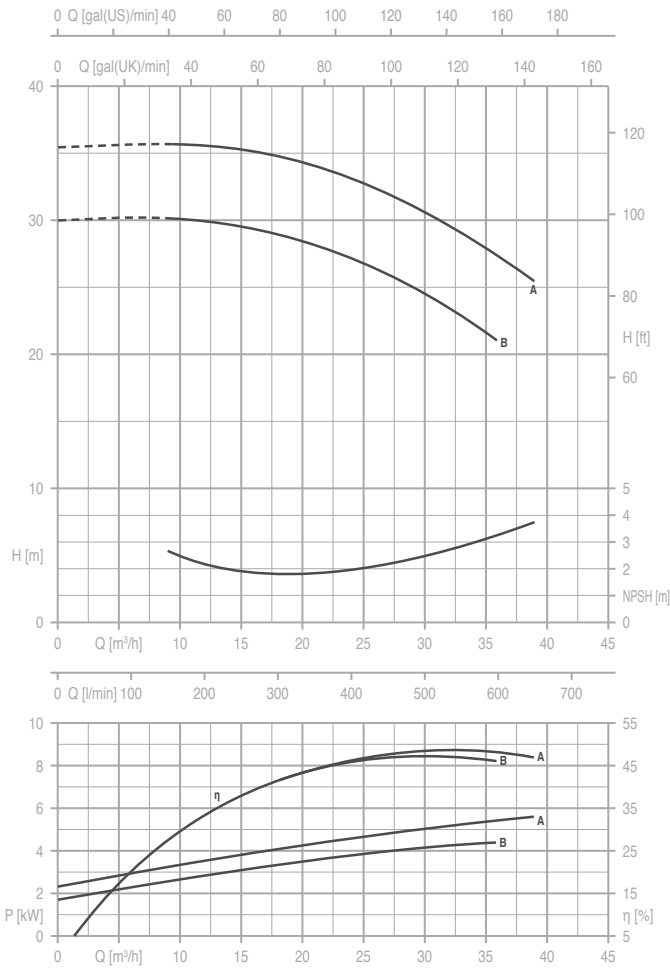
| TYPE         | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |    |
|--------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|----|
|              |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |    |
|              |      |      |         |                  | 3~               | 0    | 7.5  | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30 |
| 3~           | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 125  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  |    |
|              |      |      |         |                  | 70.0             | 68,5 | 68   | 67   | 65,5 | 63,5 | 61,5 | 58,7 | 55   | 50,5 |    |
| CM 32-250 C  | 12.5 | 9.2  | 11.9    | 20.1             | 70.0             | 68,5 | 68   | 67   | 65,5 | 63,5 | 61,5 | 58,7 | 55   | 50,5 |    |
| CM 32-250 B  | 15   | 11   | 14.4    | 24.2             | 82.0             | 81   | 80,5 | 79,5 | 78,5 | 77   | 75   | 72,6 | 70   | 66,5 |    |
| CM 32-250 A1 | 20   | 15   | 16      | 27.4             | 91.0             | 90   | 89,9 | 89   | 88   | 86   | 84   | 81,5 | 79   | 75,5 |    |
| CM 32-250 A  | 20   | 15   | 18.1    | 30.1             | 93.0             | 92,5 | 92   | 91,5 | 90,5 | 89,5 | 88   | 85,7 | 83,5 | 80   |    |

| TYPE            | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|
|                 |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |
|                 |      |      |         |                  | 3~               | 0    | 7.5  | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   |
| 3~              | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 125  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  |
|                 |      |      |         |                  | 17.4             | 17.6 | 17.5 | 17.3 | 16.9 | 16.4 | 15.8 | 15.1 | 14.2 | 13.3 | -    | -    |
| CM 40-125 C (*) | 2    | 1.5  | 2.3     | 4.0              | 17.4             | 17.6 | 17.5 | 17.3 | 16.9 | 16.4 | 15.8 | 15.1 | 14.2 | 13.3 | -    | -    |
| CM 40-125 B (*) | 3    | 2.2  | 2.9     | 5.2              | 20.7             | -    | 21.3 | 21.2 | 21.0 | 20.6 | 20.1 | 19.4 | 18.7 | 17.9 | 17.0 | -    |
| CM 40-125 A     | 4    | 3    | 4.1     | 7.1              | 25.2             | -    | 25.8 | 25.8 | 25.6 | 25.4 | 24.9 | 24.4 | 23.7 | 22.9 | 22.0 | 21.1 |

(\*) Disponibile nella versione monofase / Single phase available / Bajo pedido tambien en monofase / Disponible en monofase

CM 40-160

CM 40-200



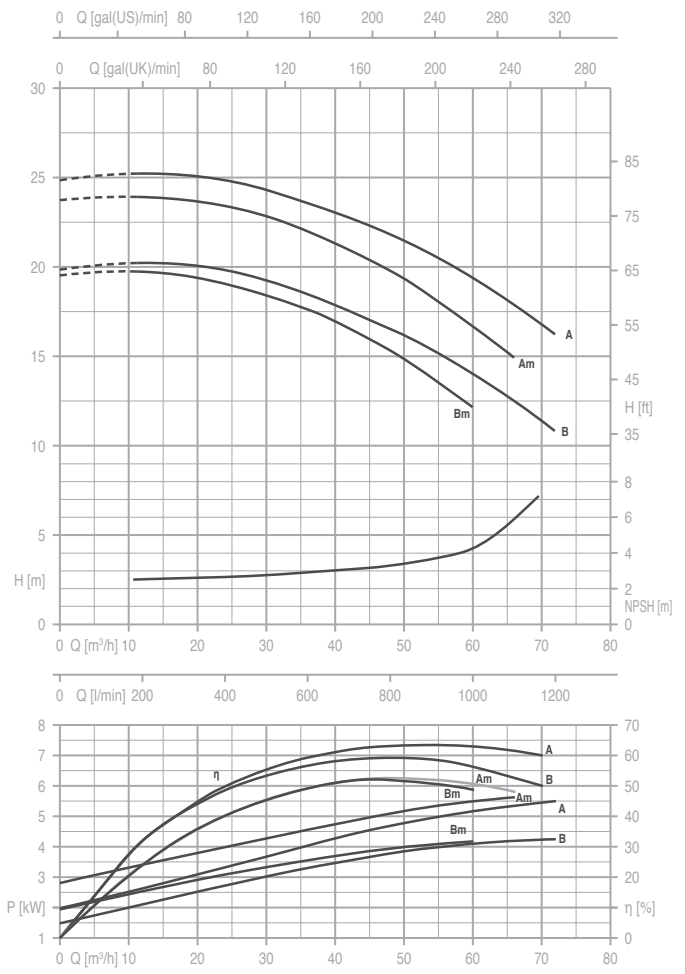
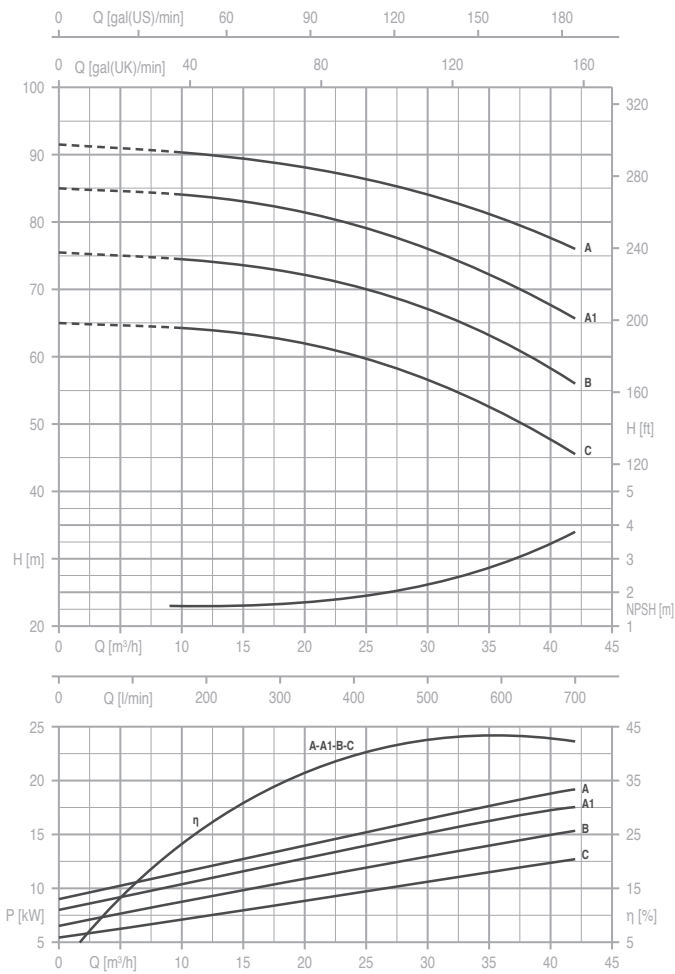
| TYPE            | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|
|                 |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |
|                 |      |      |         |                  | 3~               | 0    | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   | 36   |
| 3~              | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  |
| CM 40-160 B (*) | 4    | 3    | 4.4     | 7.4              | 30.0             | 30.1 | 30.0 | 29.6 | 29.0 | 28.2 | 27.1 | 25.9 | 24.4 | 22.8 | 21.0 | -    |
| CM 40-160 A (*) | 5.5  | 4    | 5.7     | 9.9              | 35.4             | 35.6 | 35.5 | 35.3 | 35.0 | 34.2 | 33.2 | 32.0 | 30.6 | 29.0 | 27.3 | 25.4 |

(\*) Disponibile nella versione monofase / Single phase available / Bajo pedido tambien en monofase / Disponible en monofasé

| TYPE         | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|              |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |
|              |      |      |         |                  | 3~               | 0    | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   | 36   | 39   |
| 3~           | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  |
| CM 40-200 B1 | 7.5  | 5.5  | 6.5     | 11.1             | 42.2             | 42.4 | 42.3 | 42.1 | 41.3 | 40.3 | 39.1 | 37.5 | 35.5 | 33.3 | 30.7 | 28.0 | -    |
| CM 40-200 B  | 7.5  | 5.5  | 7.4     | 12.7             | 44.7             | 44.9 | 44.8 | 44.6 | 44.0 | 42.9 | 41.6 | 40.0 | 38.1 | 36.1 | 33.6 | 30.8 | 27.9 |
| CM 40-200 A1 | 10   | 7.5  | 8.1     | 13.8             | 49.7             | 49.7 | 49.7 | 49.4 | 48.7 | 47.9 | 46.6 | 45.0 | 43.2 | 41.1 | 38.6 | 35.9 | -    |
| CM 40-200 A  | 10   | 7.5  | 9.8     | 16.5             | 57.7             | 57.7 | 57.5 | 57.1 | 56.3 | 55.4 | 54.1 | 52.5 | 50.5 | 48.5 | 45.9 | 43.3 | 40.3 |

CM 40-250

CM 50-125

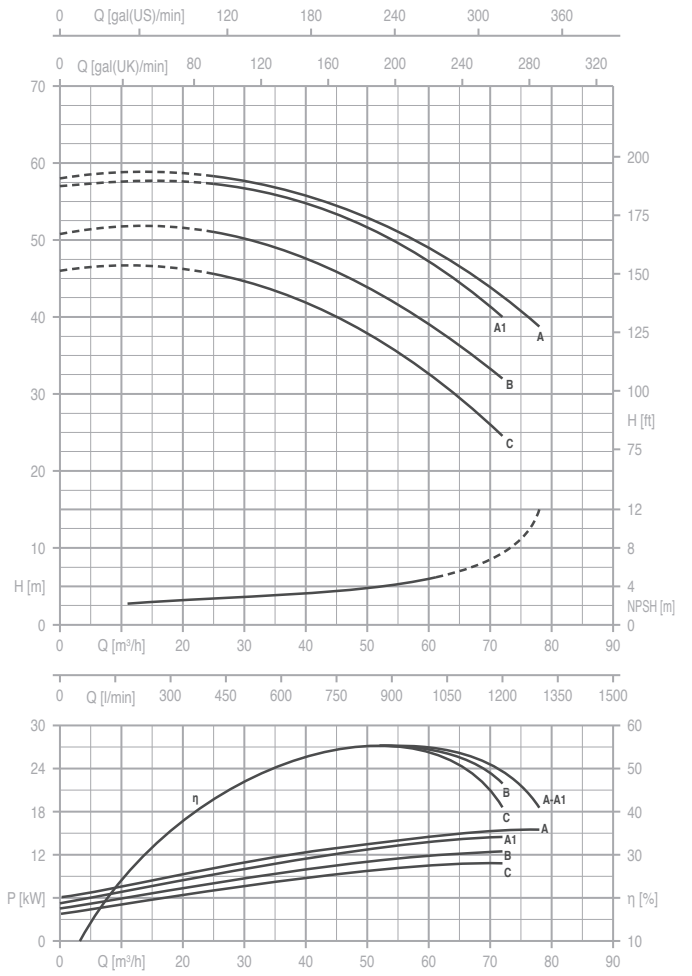
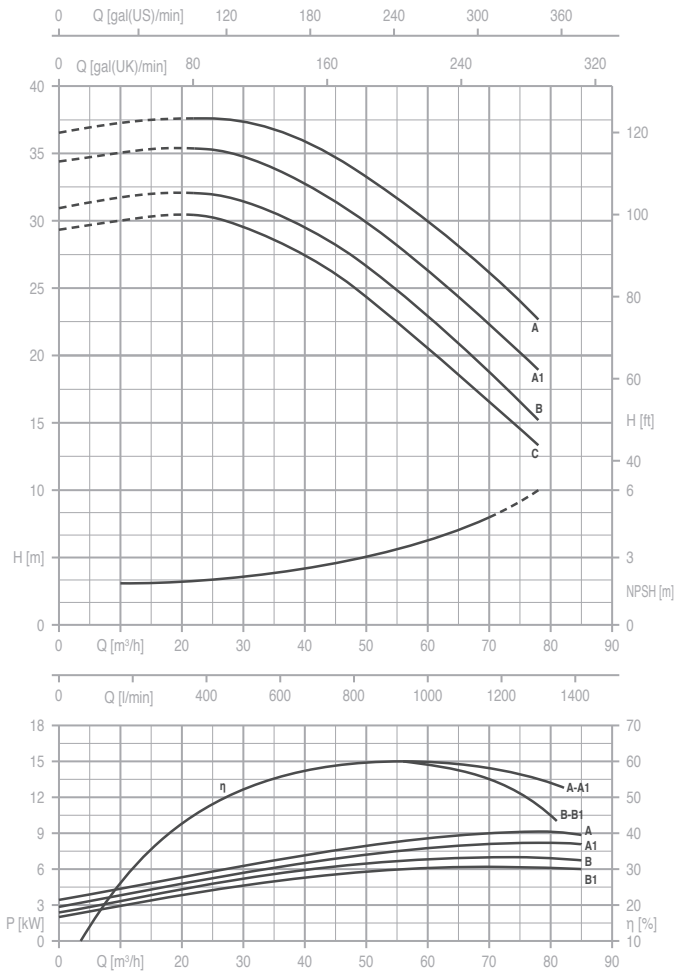


| TYPE         | P2   |      | P1 (kW) | AMPERE           |      | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |    |  |
|--------------|------|------|---------|------------------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|----|--|
|              |      |      |         | 3~               | 3~   | H (m)            |      |      |      |      |      |      |      |      |      |      |      |    |  |
|              |      |      |         |                  |      | 0                | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42 |  |
| 3~           | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0    | 150              | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  |    |  |
| CM 40-250 C  | 12,5 | 9,2  | 12,6    | 21,0             | 65,0 | 64,3             | 63,9 | 63,3 | 62,6 | 61,5 | 60,2 | 58,8 | 56,9 | 54,5 | 51,6 | 48,5 | 45,5 |    |  |
| CM 40-250 B  | 15   | 11,0 | 14,4    | 24,2             | 75,5 | 74,6             | 74,2 | 73,5 | 72,7 | 71,7 | 70,4 | 69   | 67,2 | 65   | 62,5 | 59,5 | 56   |    |  |
| CM 40-250 A1 | 20   | 15   | 17,5    | 29,5             | 85,0 | 84               | 83,7 | 82,9 | 82,1 | 80,8 | 79,5 | 77,8 | 75,9 | 73,8 | 71,3 | 68,4 | 65,8 |    |  |
| CM 40-250 A  | 20   | 15   | 19,0    | 32,0             | 91,5 | 90,4             | 89,9 | 89,3 | 88,5 | 87,5 | 86,6 | 85,5 | 84   | 82,5 | 80,5 | 78,5 | 76   |    |  |

| TYPE          |             | P2  |   | P1 (kW) |      | AMPERE |     | Q (m³/h - l/min) |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|-------------|-----|---|---------|------|--------|-----|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1~            | 3~          |     |   |         |      | 1~     | 3~  | H (m)            |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|               |             |     |   |         |      |        |     | 1x230 V<br>50 Hz | 3x400 V<br>50 Hz | 0    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   |
| -             | CM 50-125 B | 4   | 3 | -       | 4,25 | -      | 7,1 | 19,8             | 20,2             | 20,2 | 20,1 | 20   | 19,8 | 19,5 | 19,3 | 18,8 | 18,5 | 18   | 17,6 | 16,5 | 15,3 | 14   | 12,5 | 10,8 |
| CM 50-125 B m | -           | 4   | 3 | 4,2     | -    | 18,4   | -   | 19,5             | 19,7             | 19,6 | 19,5 | 19,3 | 19   | 18,7 | 18,4 | 18   | 17,6 | 17,1 | 16,6 | 15,3 | 13,8 | 12,1 | -    | -    |
| -             | CM 50-125 A | 5,5 | 4 | -       | 5,5  | -      | 9,6 | 24,8             | 25,2             | 25,2 | 25,1 | 25   | 24,8 | 24,6 | 24,3 | 23,9 | 23,5 | 23,2 | 22,7 | 21,8 | 20,7 | 19,4 | 17,9 | 16,2 |
| CM 50-125 A m | -           | 5,5 | 4 | 5,6     | -    | 25,4   | -   | 23,7             | 23,9             | 23,8 | 23,7 | 23,6 | 23,4 | 23,1 | 22,8 | 22,4 | 22   | 21,5 | 20,9 | 19,7 | 18,3 | 16,7 | 14,9 | -    |

CM 50-160

CM 50-200

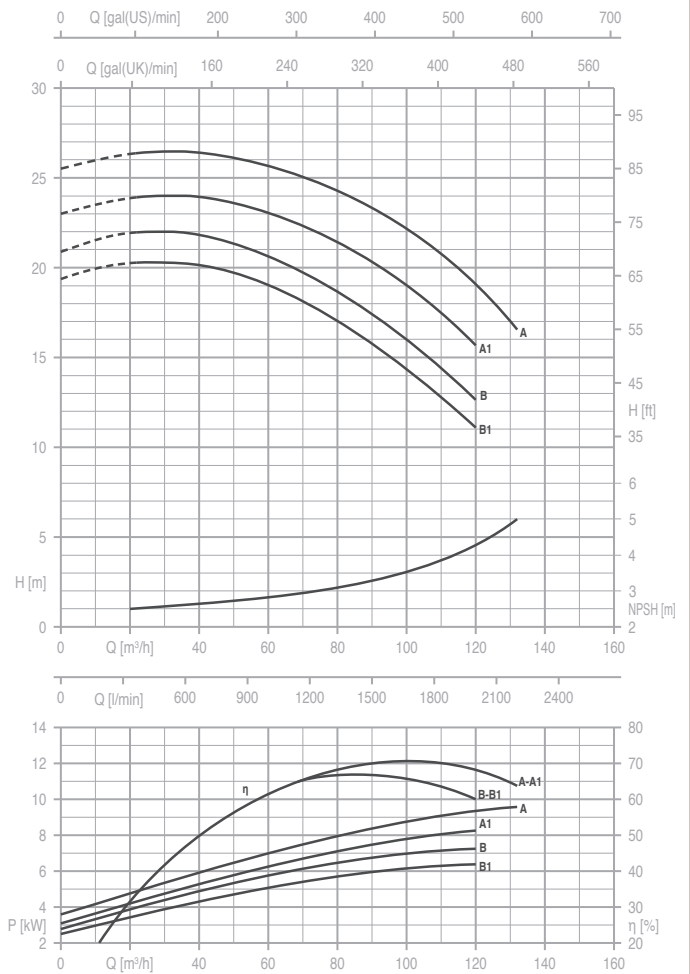
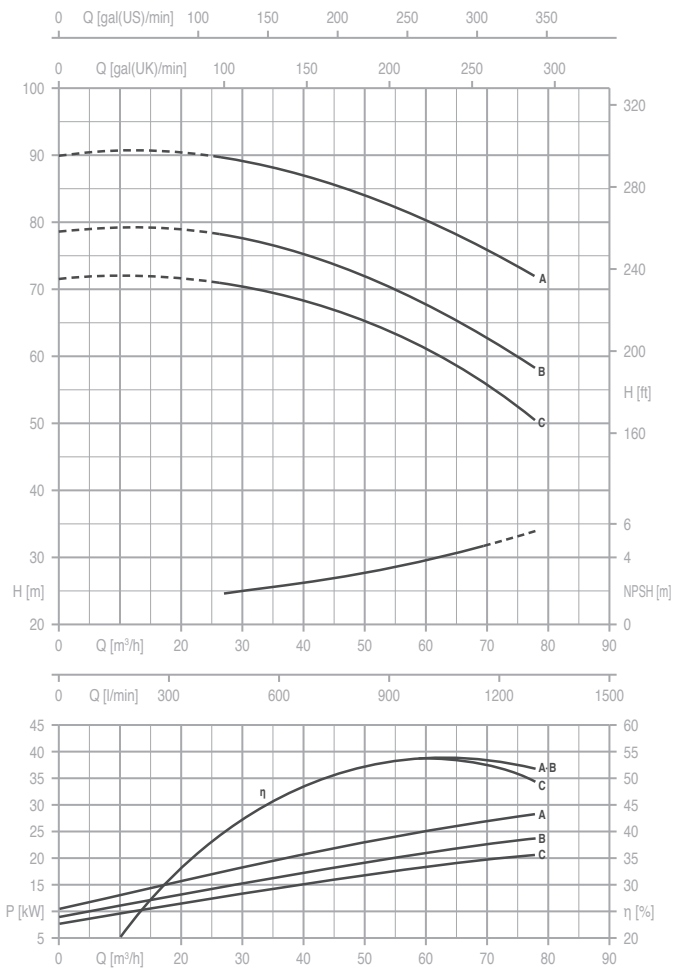


| TYPE         | P2  |     | P1 (kW) | AMPERE        | Q (m³/h - l/min) |       |      |      |      |      |      |      |      |      |      |      |      |      |      |    |  |
|--------------|-----|-----|---------|---------------|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|
|              |     |     |         |               | 3~               | H (m) |      |      |      |      |      |      |      |      |      |      |      |      |      |    |  |
|              |     |     |         |               |                  | 0     | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   | 66   | 72   | 78 |  |
| 3~           |     |     | 3~      | 3x400 V 50 Hz | 0                | 350   | 400  | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |    |  |
| CM 50-160 B1 | 7.5 | 5.5 | 6.2     | 10.7          | 29,3             | 30,3  | 30,2 | 30   | 29,6 | 29   | 28,4 | 27,7 | 26,9 | 25,2 | 23,2 | 21   | 18,7 | 16,1 | 13,2 |    |  |
| CM 50-160 B  | 7.5 | 5.5 | 6.7     | 11.6          | 31,1             | 32,1  | 32   | 31,7 | 31,4 | 31   | 30,4 | 29,7 | 28,9 | 27,3 | 25,3 | 23,1 | 20,7 | 18   | 15,2 |    |  |
| CM 50-160 A1 | 10  | 7.5 | 8.3     | 14.1          | 34,3             | 35,4  | 35,3 | 35   | 34,7 | 34,3 | 33,8 | 33,2 | 32,4 | 30,7 | 28,7 | 26,5 | 24,3 | 21,8 | 19   |    |  |
| CM 50-160 A  | 10  | 7.5 | 9.4     | 15.8          | 36,7             | 37,9  | 37,8 | 37,7 | 37,4 | 37,1 | 36,6 | 36,1 | 35,4 | 33,9 | 32,1 | 30   | 27,8 | 25,3 | 22,6 |    |  |

| TYPE         | P2   |     | P1 (kW) | AMPERE        | Q (m³/h - l/min) |       |      |      |      |      |      |      |      |      |      |      |      |      |    |  |  |
|--------------|------|-----|---------|---------------|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|--|
|              |      |     |         |               | 3~               | H (m) |      |      |      |      |      |      |      |      |      |      |      |      |    |  |  |
|              |      |     |         |               |                  | 0     | 24   | 27   | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   | 66   | 72   | 78 |  |  |
| 3~           |      |     | 3~      | 3x400 V 50 Hz | 0                | 400   | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |    |  |  |
| CM 50-200 C  | 12.5 | 9.2 | 10.8    | 18.5          | 46               | 45,6  | 45,1 | 44,5 | 43,7 | 42,9 | 41,8 | 40,8 | 38,5 | 35,9 | 33   | 29   | 24,5 | -    |    |  |  |
| CM 50-200 B  | 15   | 11  | 12.4    | 21.0          | 50,8             | 51    | 50,5 | 50   | 49,3 | 48,5 | 47,7 | 46,8 | 44,7 | 42,2 | 39,5 | 35,9 | 32   | -    |    |  |  |
| CM 50-200 A1 | 20   | 15  | 14.5    | 25.4          | 57               | 57,3  | 57,1 | 56,7 | 56,2 | 55,6 | 54,8 | 54,1 | 52,2 | 50,2 | 47,5 | 44   | 40   | -    |    |  |  |
| CM 50-200 A  | 20   | 15  | 15.4    | 27.0          | 58               | 58,3  | 58   | 57,5 | 57   | 56,4 | 55,7 | 55   | 53,2 | 51,3 | 49   | 46,3 | 42,8 | 38,8 |    |  |  |

CM 50-250

CM 65-125

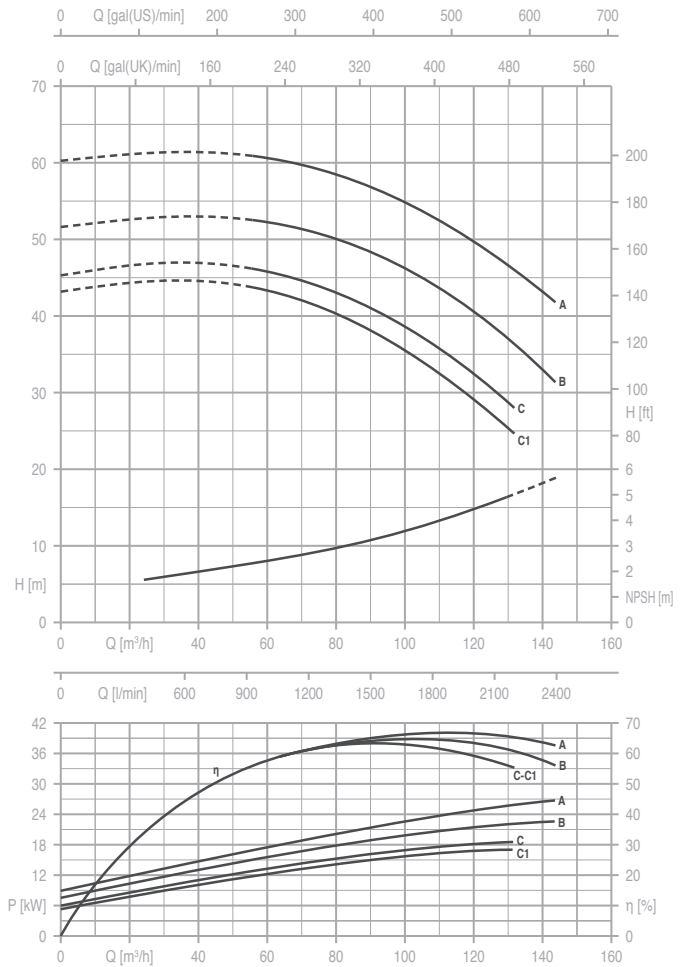
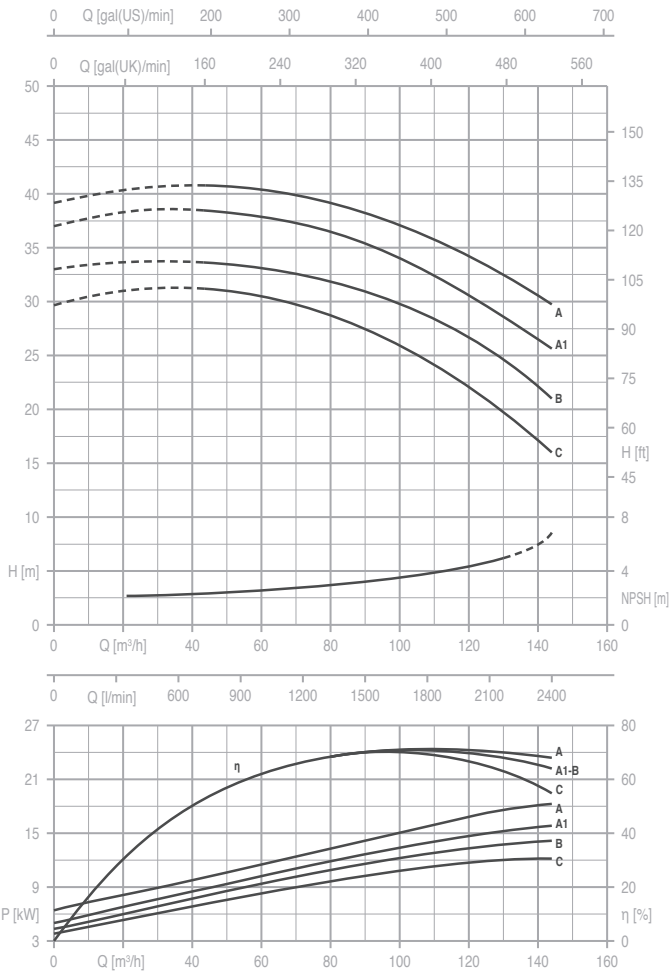


| TYPE        | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |    |
|-------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|             |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |    |
|             |      |      |         |                  | 3~               | 0    | 27   | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   | 66   | 72   | 78 |
| 3~          | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 |    |
| CM 50-250 C | 20   | 15   | 20      | 32.5             | 71.5             | 70,8 | 70,3 | 69,7 | 69   | 68,3 | 67,6 | 66   | 64   | 61,5 | 58,6 | 55   | 50,5 |    |
| CM 50-250 B | 25   | 18.5 | 23      | 41.5             | 78.0             | 78   | 77,4 | 76,8 | 76,1 | 75,3 | 74,5 | 72,8 | 70,6 | 68,2 | 65,5 | 62,2 | 58,3 |    |
| CM 50-250 A | 30   | 22.5 | 28.5    | 51.5             | 90               | 89,5 | 88,8 | 88,3 | 87,7 | 86,9 | 86,1 | 84,5 | 82,7 | 80,5 | 78   | 75,2 | 71,7 |    |

| TYPE         | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|--------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|              |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|              |      |      |         |                  | 3~               | 0    | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 84   | 96   | 108  | 120  | 132 |
| 3~           | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 500  | 550  | 600  | 650  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 |     |
| CM 65-125 B1 | 7.5  | 5.5  | 6.4     | 11               | 19,4             | 20,4 | 20,4 | 20,3 | 20,2 | 20,1 | 19,8 | 19,4 | 19   | 18,5 | 17,9 | 17,2 | 16,5 | 15   | 13,3 | 11,1 | -    |     |
| CM 65-125 B  | 7.5  | 5.5  | 7.2     | 12.6             | 20,9             | 22   | 22   | 21,9 | 21,8 | 21,7 | 21,4 | 21   | 20,6 | 20,1 | 19,6 | 19   | 18,3 | 16,6 | 14,7 | 12,6 | -    |     |
| CM 65-125 A1 | 10   | 7.5  | 8.1     | 14               | 23               | 24,1 | 24,1 | 24   | 23,9 | 23,8 | 23,6 | 23,3 | 23   | 22,7 | 22,3 | 21,8 | 21,2 | 19,7 | 17,8 | 15,7 | -    |     |
| CM 65-125 A  | 10   | 7.5  | 9.5     | 16.3             | 25,4             | 26,4 | 26,4 | 26,4 | 26,3 | 26,3 | 26,1 | 25,9 | 25,6 | 25,3 | 24,9 | 24,5 | 24   | 22,7 | 21   | 18,9 | 16,5 |     |

CM 65-160

CM 65-200

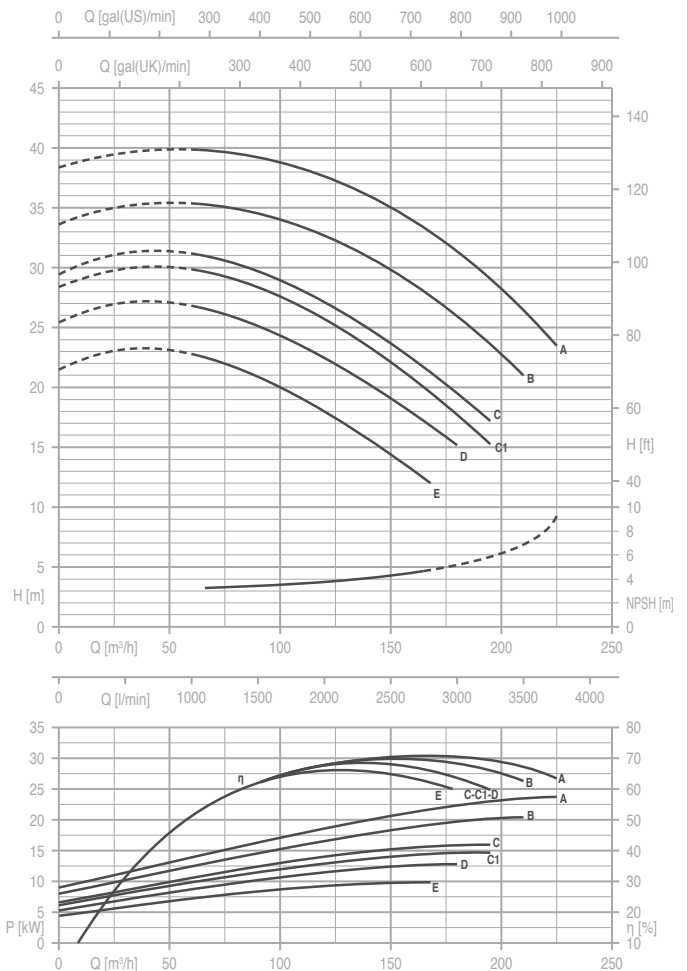
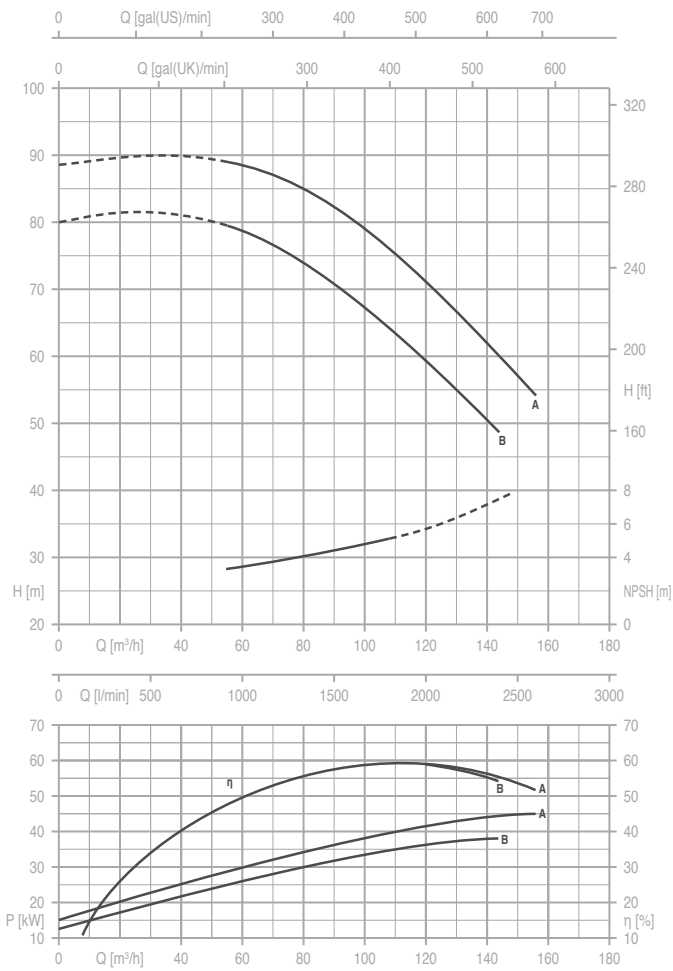


| TYPE         | P2   |      | P1 (kW) | AMPERE | Q (m³/h - l/min) |       |      |      |      |      |      |      |      |      |      |      |      |      |     |  |  |
|--------------|------|------|---------|--------|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|--|
|              |      |      |         |        | 3~               | H (m) |      |      |      |      |      |      |      |      |      |      |      |      |     |  |  |
|              |      |      |         |        |                  | 0     | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 84   | 96   | 108  | 120  | 132  | 144 |  |  |
| 3~           | (HP) | (kW) | 3~      | 3~     | 0                | 700   | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |     |  |  |
| CM 65-160 C  | 12.5 | 9.2  | 11.7    | 19.5   | 29,8             | 31,2  | 31,1 | 30,8 | 30,5 | 30,1 | 29,6 | 29   | 28,3 | 26,6 | 24,6 | 22,1 | 19,3 | 16   |     |  |  |
| CM 65-160 B  | 15   | 11   | 13      | 22.5   | 33               | 34,6  | 34,4 | 34,2 | 34   | 33,7 | 33,3 | 32,8 | 32,1 | 30,6 | 28,8 | 26,7 | 24,1 | 21,1 |     |  |  |
| CM 65-160 A1 | 20   | 15   | 15.8    | 27.6   | 37,1             | 38,5  | 38,3 | 38,1 | 37,8 | 37,5 | 37,1 | 36,7 | 36,1 | 34,6 | 32,8 | 30,7 | 28,4 | 25,7 |     |  |  |
| CM 65-160 A  | 20   | 15   | 18      | 30.0   | 39,2             | 40,6  | 40,6 | 40,4 | 40,2 | 40   | 39,7 | 39,4 | 38,9 | 37,7 | 36,2 | 34,3 | 32,2 | 29,8 |     |  |  |

| TYPE         | P2   |      | P1 (kW) | AMPERE | Q (m³/h - l/min) |       |      |      |      |      |      |      |      |      |      |      |     |   |  |  |  |
|--------------|------|------|---------|--------|------------------|-------|------|------|------|------|------|------|------|------|------|------|-----|---|--|--|--|
|              |      |      |         |        | 3~               | H (m) |      |      |      |      |      |      |      |      |      |      |     |   |  |  |  |
|              |      |      |         |        |                  | 0     | 54   | 60   | 66   | 72   | 78   | 84   | 96   | 108  | 120  | 132  | 144 |   |  |  |  |
| 3~           | (HP) | (kW) | 3~      | 3~     | 0                | 900   | 1000 | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |     |   |  |  |  |
| CM 65-200 C1 | 20   | 15   | 17.1    | 28.8   | 43.1             | 43.8  | 43.2 | 42.5 | 41.7 | 40.6 | 39.5 | 36.8 | 33.4 | 29.3 | 24.5 | -    | -   | - |  |  |  |
| CM 65-200 C  | 20   | 15   | 18.6    | 31.4   | 45.3             | 46.3  | 45.7 | 45.1 | 44.3 | 43.4 | 42.3 | 39.8 | 36.7 | 32.7 | 28.0 | -    | -   | - |  |  |  |
| CM 65-200 B  | 25   | 18.5 | 22.6    | 38.2   | 51.6             | 52.6  | 52.2 | 51.8 | 51.0 | 50.2 | 49.3 | 47.1 | 44.1 | 40.9 | 36.6 | 31.3 | -   | - |  |  |  |
| CM 65-200 A  | 30   | 22.5 | 26.6    | 43.8   | 60.2             | 61.0  | 60.6 | 60.1 | 59.5 | 58.7 | 57.8 | 55.8 | 53.1 | 49.8 | 46.1 | 41.7 | -   | - |  |  |  |

CM 65-250

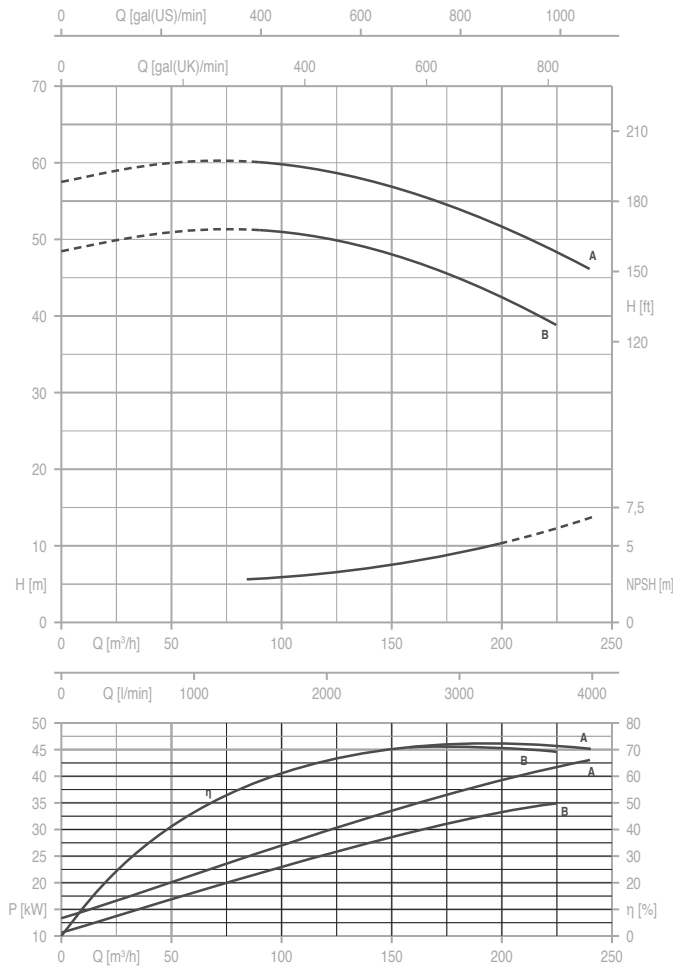
CM 80-160



| TYPE        | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |     |
|-------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|             |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |     |
|             |      |      |         |                  | 3~               | 0    | 54   | 60   | 66   | 72   | 78   | 84   | 96   | 108  | 120  | 132  | 144  | 156 |
| 3~          | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 |     |
| CM 65-250 B | 40   | 30   | 37.8    | 63.5             | 81.0             | 79.5 | 78.5 | 77.3 | 76.0 | 74.5 | 73.0 | 69.3 | 65.0 | 60.0 | 54.5 | 48.5 | -    |     |
| CM 65-250 A | 50   | 37   | 45      | 74.5             | 90.0             | 89.5 | 88.5 | 87.5 | 86.5 | 85.5 | 84.0 | 80.5 | 76.5 | 72.0 | 66.5 | 60.5 | 54.0 |     |

| TYPE         | P2   |      | P1 (kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |  |
|--------------|------|------|---------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|
|              |      |      |         |                  | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |  |
|              |      |      |         |                  | 3~               | 0    | 66   | 72   | 78   | 84   | 96   | 108  | 120  | 132  | 144  | 156  | 168  | 180  | 195  | 210  | 225 |  |
| 3~           | (HP) | (kW) | 3~      | 3x400 V<br>50 Hz | 0                | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3250 | 3500 | 3750 |     |  |
| CM 80-160 E  | 12.5 | 9.2  | 9.9     | 17.2             | 21,4             | 22,4 | 22,1 | 21,6 | 21,2 | 20,2 | 19,2 | 18   | 16,8 | 15,4 | 13,7 | 12   | -    | -    | -    | -    |     |  |
| CM 80-160 D  | 15   | 11   | 12.7    | 22.1             | 25,4             | 26,4 | 26,1 | 25,7 | 25,3 | 24,4 | 23,6 | 22,5 | 21,3 | 20   | 18,5 | 16,9 | 15,1 | -    | -    | -    |     |  |
| CM 80-160 C1 | 20   | 15   | 14.8    | 25.5             | 28,5             | 29,5 | 29,3 | 29   | 28,6 | 27,8 | 26,9 | 25,7 | 24,6 | 23,3 | 21,7 | 19,9 | 17,9 | 15,2 | -    | -    |     |  |
| CM 80-160 C  | 20   | 15   | 15.9    | 27.4             | 29,7             | 30,7 | 30,5 | 30,3 | 29,9 | 29,2 | 28,1 | 27,1 | 26   | 24,7 | 23,1 | 21,5 | 19,7 | 17,2 | -    | -    |     |  |
| CM 80-160 B  | 25   | 18.5 | 20.1    | 34.8             | 34               | 35   | 35   | 34,8 | 34,6 | 34   | 33,3 | 32,5 | 31,6 | 30,5 | 29,2 | 27,8 | 26   | 23,6 | 21   | -    |     |  |
| CM 80-160 A  | 30   | 22.5 | 23.7    | 39.8             | 38,8             | 39,8 | 39,7 | 39,6 | 39,4 | 38,9 | 38,2 | 37,5 | 36,7 | 35,7 | 34,5 | 33,2 | 31,6 | 29,4 | 26,8 | 23,5 |     |  |

**CM 80-200**



| TYPE               | P2   |      | P1<br>(kW) | AMPERE           | Q (m³/h - l/min) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|--------------------|------|------|------------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
|                    |      |      |            |                  | 3~               | 0    | 84   | 96   | 108  | 120  | 132  | 144  | 156  | 168  | 180  | 195  | 210  | 225  | 240  |  |
|                    |      |      |            |                  |                  | 0    | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3250 | 3500 | 3750 | 4000 |  |
| 3~                 | (HP) | (kW) | 3~         | 3x400 V<br>50 Hz | H (m)            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| <b>CM 80-200 B</b> | 40   | 30   | 37.8       | 63.5             | 49.0             | 50.8 | 50.6 | 50.3 | 49.8 | 49.3 | 48.6 | 47.7 | 46.7 | 45.5 | 44.8 | 41.6 | 38.6 | -    |      |  |
| <b>CM 80-200 A</b> | 50   | 37   | 45         | 74.5             | 58.0             | -    | 59.6 | 59.2 | 58.6 | 58.0 | 57.3 | 56.4 | 55.5 | 54.3 | 52.7 | 50.8 | 48.5 | 46.1 |      |  |





| DIMENSIONS (mm) |     |     |       |    |
|-----------------|-----|-----|-------|----|
| DN              | D   | K   | holes |    |
|                 |     |     | n°    | Ø  |
| 32              | 140 | 100 | 4     | 18 |
| 40              | 150 | 110 | 4     | 18 |
| 50              | 165 | 125 | 4     | 18 |
| 65              | 185 | 145 | 4     | 18 |
| 80              | 200 | 160 | 4     | 18 |
| 100             | 220 | 180 | 8     | 18 |

