

# CMG-CMGX ~ 2900 rpm

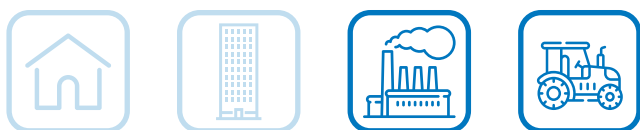
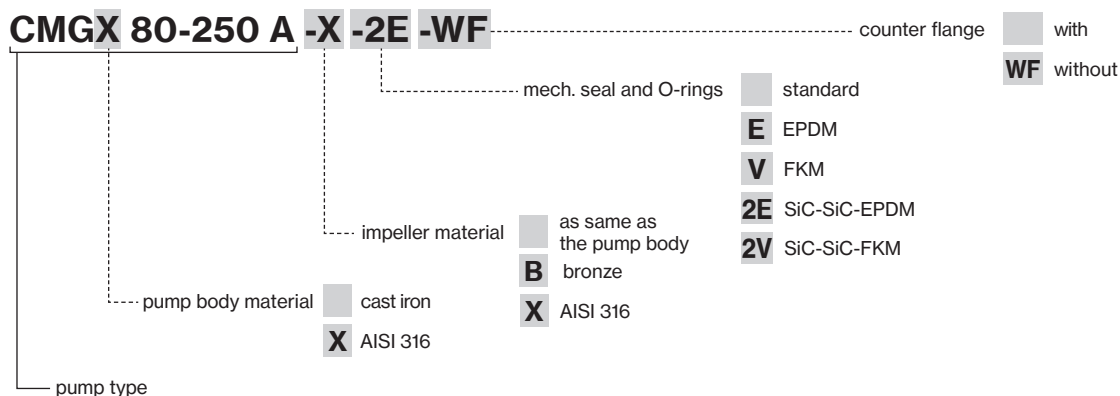
Centrifugal Flanged  
EN 733



Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems.

| Construction features     |  |
|---------------------------|--|
| <b>Pump body</b>          | cast iron (CMG)<br>stainless steel AISI 316 (CMGX) |
| <b>Motor bracket</b>      | cast iron  |
| <b>Impeller</b>           | cast iron, bronze, steel (CMG),<br>steel (CMGX)    |
| <b>Seal type</b>          | mechanical   |
| <b>Pump shaft end</b>     | stainless steel AISI 316                           |
| <b>Liquid temperature</b> | -10 ÷ +90 °C                                       |
| <b>Operating pressure</b> | max 10 bar   |

| Motor                          |                    |
|--------------------------------|--------------------|
| <b>2 poles induction motor</b> | 3- 400/690V - 50Hz |
| <b>Insulation class</b>        | F                  |
| <b>Protection degree</b>       | IPX5               |



# CM-CMG-CA-4CA

Centrifugal Flanged  
EN 733

**CM:** Front suction close-coupled centrifugal pumps with close impeller mounted on IE3 motor shaft extension. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**CMG-CMGX:** Front suction centrifugal pumps connected to IE3 standard motor (stub-shaft construction). Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**CA-CAX-4CA-4CAX:** Single-stage end-suction centrifugal frame-mounted pumps. Dimensions in accordance with EN 733.

| TYPE     | 2 POLES |     |      |    |                 |                   |             | 4 POLES     |               |                   |             |
|----------|---------|-----|------|----|-----------------|-------------------|-------------|-------------|---------------|-------------------|-------------|
|          | CM      | CMG | CMGX | CA | CAT<br>CAX CATX | Flow rate         | Head        | 4CA<br>4CAT | 4CAX<br>4CATX | Flow rate         | Head        |
|          |         |     |      |    |                 | m <sup>3</sup> /h | m           |             |               | m <sup>3</sup> /h | m           |
| 32-160C  | ■       | -   | -    | ■  | ■               | 6 ÷ 21            | 22,8 ÷ 14   | ■           | ■             | 3 ÷ 12            | 5,6 ÷ 2,4   |
| 32-160B  | ■       | -   | -    | ■  | ■               | 6 ÷ 24            | 27,7 ÷ 17   | ■           | ■             | 3 ÷ 12            | 6,7 ÷ 3,8   |
| 32-160A  | ■       | -   | -    | ■  | ■               | 6 ÷ 27            | 36,2 ÷ 22,1 | ■           | ■             | 3 ÷ 13,5          | 9,0 ÷ 5,6   |
| 32-200C  | ■       | -   | -    | ■  | ■               | 6 ÷ 27            | 40,3 ÷ 28,7 | ■           | ■             | 3 ÷ 18            | 9,9 ÷ 2,6   |
| 32-200B1 | ■       | -   | -    | -  | -               | 6 ÷ 27            | 48 ÷ 37,9   | -           | -             | -                 | -           |
| 32-200B  | ■       | -   | -    | ■  | ■               | 6 ÷ 30            | 48 ÷ 35,4   | ■           | ■             | 3 ÷ 19            | 12,0 ÷ 4,8  |
| 32-200A1 | ■       | -   | -    | -  | -               | 6 ÷ 30            | 58,3 ÷ 46,6 | -           | -             | -                 | -           |
| 32-200A  | ■       | -   | -    | ■  | ■               | 6 ÷ 33            | 58,3 ÷ 44,3 | ■           | ■             | 3 ÷ 20            | 14,7 ÷ 5,8  |
| 32-250C  | ■       | -   | -    | ■  | ■               | 6 ÷ 27            | 72 ÷ 61,3   | ■           | ■             | 3 ÷ 19            | 17,5 ÷ 9,1  |
| 32-250B  | ■       | -   | -    | ■  | ■               | 7,5 ÷ 27          | 84 ÷ 73,2   | ■           | ■             | 3 ÷ 20            | 20,5 ÷ 11,8 |
| 32-250A1 | ■       | -   | -    | -  | -               | 7,5 ÷ 27          | 93,6 ÷ 85,3 | -           | -             | -                 | -           |
| 32-250A  | ■       | -   | -    | ■  | ■               | 7,5 ÷ 27          | 93,6 ÷ 85,5 | ■           | ■             | 3 ÷ 21            | 23,1 ÷ 13,2 |
| 40-125C  | ■       | -   | -    | ■  | ■               | 9 ÷ 36            | 18,5 ÷ 9,4  | ■           | ■             | 3 ÷ 18            | 4,5 ÷ 2     |
| 40-125B  | ■       | -   | -    | ■  | ■               | 9 ÷ 39            | 23,4 ÷ 13,2 | ■           | ■             | 3 ÷ 21            | 5,6 ÷ 2,2   |
| 40-125A  | ■       | -   | -    | ■  | ■               | 9 ÷ 42            | 27,6 ÷ 16,8 | ■           | ■             | 3 ÷ 24            | 6,5 ÷ 2,3   |
| 40-160B  | ■       | -   | -    | ■  | ■               | 9 ÷ 36            | 29,2 ÷ 20,5 | ■           | ■             | 3 ÷ 24            | 7,1 ÷ 2,8   |
| 40-160A  | ■       | -   | -    | ■  | ■               | 9 ÷ 42            | 34,9 ÷ 23,4 | ■           | ■             | 3 ÷ 24            | 8,5 ÷ 4,6   |
| 40-160AP | ■       | -   | -    | ■  | ■               | 9 ÷ 48            | 39,8 ÷ 25,3 | ■           | ■             | 3 ÷ 24            | 9,5 ÷ 5,6   |
| 40-200B1 | ■       | -   | -    | -  | -               | 9 ÷ 39            | 45,5 ÷ 32,3 | -           | -             | -                 | -           |
| 40-200B  | ■       | -   | -    | ■  | ■               | 9 ÷ 42            | 45,5 ÷ 29,4 | ■           | ■             | 3 ÷ 24            | 11,0 ÷ 5,0  |
| 40-200A1 | ■       | -   | -    | -  | -               | 9 ÷ 39            | 56,5 ÷ 44,4 | -           | -             | -                 | -           |
| 40-200A  | ■       | -   | -    | ■  | ■               | 9 ÷ 42            | 56,5 ÷ 41,6 | ■           | ■             | 3 ÷ 24            | 13,9 ÷ 8,5  |
| 40-200AP | ■       | -   | -    | ■  | ■               | 9 ÷ 45            | 61,4 ÷ 42,2 | ■           | ■             | 3 ÷ 24            | 14,8 ÷ 8,8  |
| 40-250C  | ■       | -   | -    | ■  | ■               | 9 ÷ 36            | 64,4 ÷ 55,4 | ■           | ■             | 3 ÷ 27            | 15,9 ÷ 5,0  |
| 40-250B  | ■       | -   | -    | ■  | ■               | 9 ÷ 39            | 79,9 ÷ 62,1 | ■           | ■             | 3 ÷ 30            | 18,4 ÷ 5,2  |
| 40-250A1 | ■       | -   | -    | -  | -               | 9 ÷ 42            | 84,6 ÷ 72,8 | -           | -             | -                 | -           |
| 40-250A  | ■       | -   | -    | ■  | ■               | 9 ÷ 45            | 84,6 ÷ 69   | ■           | ■             | 3 ÷ 33            | 20,8 ÷ 5,4  |
| 40-250BM | ■       | -   | -    | ■  | ■               | 9 ÷ 54            | 93,2 ÷ 72   | ■           | ■             | 3 ÷ 33            | 22,7 ÷ 8,0  |
| 40-250AM | ■       | -   | -    | ■  | ■               | 9 ÷ 60            | 103 ÷ 77,5  | ■           | ■             | 3 ÷ 33            | 24,5 ÷ 11,3 |
| 50-125B  | ■       | -   | -    | ■  | ■               | 12 ÷ 72           | 20,6 ÷ 9,2  | ■           | ■             | 9 ÷ 42            | 5,1 ÷ 1,6   |
| 50-125A  | ■       | -   | -    | ■  | ■               | 12 ÷ 72           | 24,3 ÷ 14,2 | ■           | ■             | 9 ÷ 45            | 6,1 ÷ 2,1   |
| 50-160B1 | ■       | -   | -    | -  | -               | 21 ÷ 66           | 33,5 ÷ 21,5 | -           | -             | -                 | -           |
| 50-160B  | ■       | -   | -    | ■  | ■               | 21 ÷ 72           | 33,5 ÷ 18,9 | ■           | ■             | 9 ÷ 42            | 7,8 ÷ 2,6   |
| 50-160A1 | ■       | -   | -    | -  | -               | 21 ÷ 72           | 39,8 ÷ 27,6 | -           | -             | -                 | -           |
| 50-160A  | ■       | -   | -    | ■  | ■               | 21 ÷ 78           | 39,8 ÷ 25,4 | ■           | ■             | 9 ÷ 48            | 9,5 ÷ 3,4   |
| 50-200C  | ■       | -   | -    | ■  | ■               | 24 ÷ 72           | 49,7 ÷ 28,9 | ■           | ■             | 9 ÷ 42            | 12,1 ÷ 3,7  |
| 50-200B  | ■       | -   | -    | ■  | ■               | 24 ÷ 72           | 54,6 ÷ 35   | ■           | ■             | 9 ÷ 45            | 13,3 ÷ 3,9  |
| 50-200A1 | ■       | -   | -    | -  | -               | 24 ÷ 78           | 61,8 ÷ 39,8 | -           | -             | -                 | -           |



| TYPE     | 2 POLES |     |      |    |                 |           |               | 4 POLES     |               |           |             |
|----------|---------|-----|------|----|-----------------|-----------|---------------|-------------|---------------|-----------|-------------|
|          | CM      | CMG | CMGX | CA | CAT<br>CAX CATX | Flow rate | Head          | 4CA<br>4CAT | 4CAX<br>4CATX | Flow rate | Head        |
|          |         |     |      |    |                 | m³/h      | m             |             |               | m³/h      | m           |
| 50-200A  | ■       | -   | -    | ■  | ■               | 24 ÷ 78   | 61,8 ÷ 39,8   | ■           | ■             | 9 ÷ 45    | 14,9 ÷ 5,6  |
| 50-250C1 | ■       | -   | -    | -  | -               | 27 ÷ 60   | 68,2 ÷ 56,2   | -           | -             | -         | -           |
| 50-250C  | ■       | -   | -    | ■  | ■               | 27 ÷ 66   | 68,2 ÷ 52,1   | ■           | ■             | 12 ÷ 45   | 17,4 ÷ 8    |
| 50-250B  | ■       | -   | -    | ■  | ■               | 27 ÷ 72   | 78,4 ÷ 58,5   | ■           | ■             | 12 ÷ 48   | 19,6 ÷ 8,2  |
| 50-250A  | ■       | -   | -    | ■  | ■               | 27 ÷ 78   | 88,3 ÷ 61,8   | ■           | ■             | 12 ÷ 52   | 21,4 ÷ 8,2  |
| 50-315DN | -       | -   | -    | ■  | -               | 42 ÷ 132  | 90,4 ÷ 73,4   | -           | -             | -         | -           |
| 50-315C  | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 18 ÷ 84   | 24,7 ÷ 16,8 |
| 50-315CN | -       | -   | -    | ■  | -               | 42 ÷ 132  | 105 ÷ 88,7    | -           | -             | -         | -           |
| 50-315B  | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 18 - 90   | 31,4 - 21,6 |
| 50-315BN | -       | -   | -    | ■  | -               | 42 ÷ 144  | 124,3 ÷ 103,5 | -           | -             | -         | -           |
| 50-315A  | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 18 - 96   | 37,2 - 25,1 |
| 50-315AN | -       | -   | -    | ■  | -               | 42 ÷ 144  | 146,9 ÷ 125,8 | -           | -             | -         | -           |
| 65-125B1 | ■       | -   | -    | -  | -               | 30 ÷ 108  | 20,6 ÷ 15     | -           | -             | -         | -           |
| 65-125B  | ■       | -   | -    | ■  | ■               | 30 ÷ 120  | 20,6 ÷ 13,1   | ■           | ■             | 18 ÷ 66   | 5 ÷ 2,4     |
| 65-125A1 | ■       | -   | -    | -  | -               | 30 ÷ 120  | 25,2 ÷ 18,8   | -           | -             | -         | -           |
| 65-125A  | ■       | -   | -    | ■  | ■               | 30 ÷ 132  | 25,2 ÷ 16,8   | ■           | ■             | 18 ÷ 72   | 6,4 ÷ 3,4   |
| 65-160C  | ■       | -   | -    | ■  | ■               | 42 ÷ 144  | 30,6 ÷ 13,9   | ■           | ■             | 24 ÷ 78   | 7,3 ÷ 2,7   |
| 65-160B  | ■       | -   | -    | ■  | ■               | 42 ÷ 144  | 35,1 ÷ 20,4   | ■           | ■             | 24 ÷ 78   | 8,5 ÷ 3,9   |
| 65-160A1 | ■       | -   | -    | -  | -               | 42 ÷ 138  | 42,5 ÷ 31,7   | -           | -             | -         | -           |
| 65-160A  | ■       | -   | -    | ■  | ■               | 42 ÷ 144  | 42,5 ÷ 30,9   | ■           | ■             | 24 ÷ 8    | 10,4 ÷ 5,7  |
| 65-200C1 | ■       | -   | -    | -  | -               | 54 ÷ 132  | 46,1 ÷ 28,9   | -           | -             | -         | -           |
| 65-200C  | ■       | -   | -    | ■  | ■               | 54 ÷ 138  | 46,1 ÷ 26,8   | ■           | ■             | 27 ÷ 78   | 11,2 ÷ 5    |
| 65-200B  | ■       | -   | -    | ■  | ■               | 54 ÷ 144  | 53,9 ÷ 34,6   | ■           | ■             | 27 ÷ 84   | 13 ÷ 5,9    |
| 65-200A  | ■       | -   | -    | ■  | ■               | 54 ÷ 144  | 61,8 ÷ 44,4   | ■           | ■             | 27 ÷ 90   | 14,9 ÷ 6,4  |
| 65-250B  | ■       | -   | -    | ■  | ■               | 54 ÷ 144  | 80,6 ÷ 47,3   | ■           | ■             | 27 ÷ 84   | 20 ÷ 7      |
| 65-250A  | ■       | -   | -    | ■  | ■               | 54 ÷ 150  | 91,6 ÷ 57,9   | ■           | ■             | 30 ÷ 90   | 22,3 ÷ 7,8  |
| 65-315CM | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 27 ÷ 126  | 23,5 ÷ 13,9 |
| 65-315CN | -       | -   | -    | ■  | -               | 54 ÷ 180  | 96,5 ÷ 80,8   | -           | -             | -         | -           |
| 65-315BM | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 27 ÷ 132  | 28,9 ÷ 17,2 |
| 65-315BN | -       | -   | -    | ■  | -               | 54 ÷ 195  | 117,9 ÷ 96,3  | -           | -             | -         | -           |
| 65-315AM | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 27 ÷ 138  | 34 ÷ 18,2   |
| 65-315AN | -       | -   | -    | ■  | -               | 54 ÷ 210  | 138,8 ÷ 110,4 | -           | -             | -         | -           |
| 80-160E  | ■       | -   | -    | ■  | ■               | 66 ÷ 168  | 22,9 ÷ 13,7   | ■           | ■             | 24 ÷ 96   | 5,7 ÷ 2,2   |
| 80-160D  | ■       | -   | -    | ■  | ■               | 66 ÷ 180  | 27,3 ÷ 16,4   | ■           | ■             | 27 ÷ 102  | 6,8 ÷ 2,6   |
| 80-160C1 | ■       | -   | -    | -  | -               | 66 ÷ 195  | 30,9 ÷ 18,4   | -           | -             | -         | -           |
| 80-160C  | ■       | -   | -    | ■  | ■               | 66 ÷ 195  | 30,9 ÷ 18,4   | ■           | ■             | 30 ÷ 108  | 7,4 ÷ 3,1   |
| 80-160B  | ■       | -   | -    | ■  | ■               | 66 ÷ 210  | 35,9 ÷ 22     | ■           | ■             | 33 ÷ 120  | 8,9 ÷ 3,5   |
| 80-160A  | ■       | -   | -    | ■  | ■               | 66 ÷ 225  | 40,5 ÷ 23,9   | ■           | ■             | 36 ÷ 132  | 9,8 ÷ 3,8   |
| 80-200B  | ■       | -   | -    | ■  | ■               | 72 ÷ 225  | 54,5 ÷ 38,5   | ■           | ■             | 42 ÷ 132  | 13,1 ÷ 7,1  |
| 80-200A  | ■       | -   | -    | ■  | ■               | 72 ÷ 240  | 61,7 ÷ 43,9   | ■           | ■             | 42 ÷ 144  | 14,7 ÷ 7,5  |
| 80-250B  | -       | ■   | ■    | ■  | ■               | 96 ÷ 225  | 80 ÷ 58,8     | ■           | ■             | 42 ÷ 132  | 19,2 ÷ 11,1 |
| 80-250A  | -       | ■   | ■    | ■  | ■               | 96 ÷ 240  | 92,8 ÷ 65,2   | ■           | ■             | 42 ÷ 144  | 22,9 ÷ 12,6 |
| 80-315B  | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 42 ÷ 150  | 28,3 ÷ 19,9 |
| 80-315BN | -       | -   | -    | ■  | -               | 78 ÷ 255  | 112,4 ÷ 90,8  | -           | -             | -         | -           |
| 80-315A  | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 42 ÷ 168  | 35 ÷ 23,7   |
| 80-315AN | -       | -   | -    | ■  | -               | 78 ÷ 255  | 141,4 ÷ 118,5 | -           | -             | -         | -           |
| 100-160B | ■       | -   | -    | -  | -               | 96 ÷ 330  | 40,7 ÷ 25,7   | -           | -             | -         | -           |
| 100-160A | ■       | -   | -    | -  | -               | 96 ÷ 330  | 45,1 ÷ 31,9   | -           | -             | -         | -           |
| 100-200D | -       | -   | -    | ■  | ■               | 108 ÷ 300 | 43,1 ÷ 26,6   | ■           | ■             | 48 ÷ 168  | 10,8 ÷ 4,8  |
| 100-200C | -       | -   | -    | ■  | ■               | 108 ÷ 330 | 48,4 ÷ 28,1   | ■           | ■             | 48 ÷ 168  | 12 ÷ 6,3    |
| 100-200B | -       | ■   | ■    | ■  | ■               | 108 ÷ 330 | 56,8 ÷ 39,7   | ■           | ■             | 48 ÷ 180  | 13,6 ÷ 7,8  |
| 100-200A | -       | ■   | ■    | ■  | ■               | 108 ÷ 360 | 62,2 ÷ 42,5   | ■           | ■             | 48 ÷ 192  | 15,4 ÷ 9,1  |
| 100-250E | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 60 ÷ 180  | 16,9 ÷ 11,4 |
| 100-250D | -       | -   | -    | -  | -               | -         | -             | ■           | ■             | 60 ÷ 192  | 19,6 ÷ 12,7 |

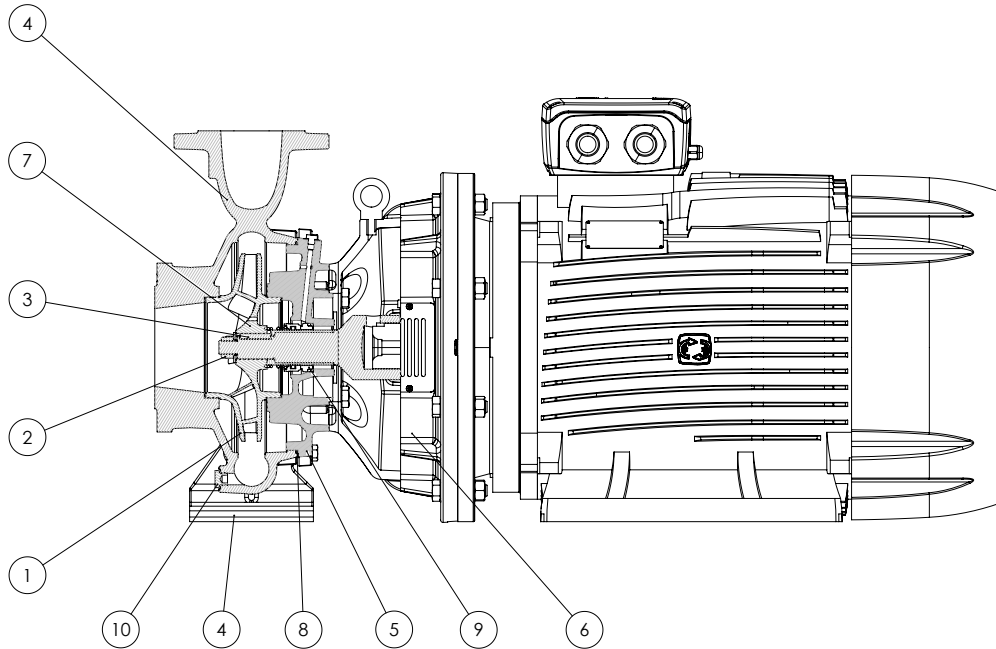


| TYPE  | 2 POLES |     |      |    |                 |                   |             | 4 POLES     |               |                   |             |
|---|---------|-----|------|----|-----------------|-------------------|-------------|-------------|---------------|-------------------|-------------|
|   | CM      | CMG | CMGX | CA | CAT<br>CAX CATX | Flow rate         | Head        | 4CA<br>4CAT | 4CAX<br>4CATX | Flow rate         | Head        |
|   |         |     |      |    |                 | m <sup>3</sup> /h | m           |             |               | m <sup>3</sup> /h | m           |
| 100-250C                                    | -       | ■   | ■    | ■  | ■               | 120 ÷ 300         | 73,2 ÷ 61   | -           | -             | -                 | -           |
| 100-250B                                    | -       | ■   | ■    | ■  | ■               | 120 ÷ 330         | 83,7 ÷ 67,6 | -           | -             | -                 | -           |
| 100-250A                                    | -       | ■   | ■    | ■  | ■               | 120 ÷ 360         | 93,9 ÷ 73,2 | ■           | ■             | 60 ÷ 204          | 22,3 ÷ 13,8 |
| 100-315B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 72 ÷ 216          | 31,4 ÷ 17,9 |
| 100-315A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 72 ÷ 216          | 36,5 ÷ 23,1 |
| 100-400C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 84 ÷ 228          | 40,6 ÷ 25,8 |
| 100-400B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 84 ÷ 240          | 48,7 ÷ 31,6 |
| 100-400A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 84 ÷ 252          | 56 ÷ 36,7   |
| 125-250B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 102 ÷ 252         | 20,2 ÷ 11,1 |
| 125-250A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 102 ÷ 276         | 24 ÷ 14,7   |
| 125-315C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 348         | 25,8 ÷ 15,7 |
| 125-315B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 372         | 33 ÷ 22,2   |
| 125-315A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 372         | 39,6 ÷ 28,2 |
| 125-400C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 372         | 47,6 ÷ 33,8 |
| 125-400B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 396         | 54,5 ÷ 39,1 |
| 125-400A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 120 ÷ 396         | 59,5 ÷ 45   |
| 150-315D                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 144 ÷ 444         | 28,3 ÷ 19,6 |
| 150-315C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 144 ÷ 492         | 32,2 ÷ 21,8 |
| 150-315B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 144 ÷ 540         | 36,3 ÷ 23,6 |
| 150-315A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 144 ÷ 564         | 41 ÷ 27,2   |
| 150-400C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 168 ÷ 564         | 47,8 ÷ 28,7 |
| 150-400B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 168 ÷ 588         | 54,4 ÷ 34,3 |
| 150-400A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 168 ÷ 612         | 60,3 ÷ 39,8 |
| <b>Not envisaged in the EN 733 standard</b> |         |     |      |    |                 |                   |             |             |               |                   |             |
| 200-315D                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 800         | 21,7 ÷ 12,5 |
| 200-315C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 850         | 26,6 ÷ 14,6 |
| 200-315B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 900         | 33,4 ÷ 16,7 |
| 200-315A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 900         | 35,9 ÷ 19,8 |
| 200-400C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 800         | 44,1 ÷ 31,5 |
| 200-400B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 850         | 50,8 ÷ 36,6 |
| 200-400A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 200 ÷ 900         | 58,5 ÷ 44   |
| 250-315C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1100        | 25,5 ÷ 16,8 |
| 250-315B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1170        | 33 ÷ 19     |
| 250-315A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1200        | 35 ÷ 20     |
| 250-400D                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1300        | 39,9 ÷ 24,3 |
| 250-400C                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1400        | 45,8 ÷ 27,4 |
| 250-400B                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1500        | 51,7 ÷ 30,3 |
| 250-400A                                    | -       | -   | -    | -  | -               | -                 | -           | ■           | ■             | 250 ÷ 1600        | 57,4 ÷ 31,7 |



# CMG Series

## Models list and materials



| POS. N. | DENOMINATION                        | VERSION              | MATERIAL   | REFERENCE STANDARDS      |               |
|---------|-------------------------------------|----------------------|--|--------------------------|---------------|
|         |                                     |                      |  | EUROPE                   | USA           |
| 1       | <b>Impeller</b>                     | Standard             | Cast iron G20  | GJL-200 (JL1030)         | ASTM Class 30 |
|         |                                     | B                    | Bronze   | CuSn10-C (CC480K)        | UNS C90700    |
|         |                                     | X                    | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 2       | <b>Impeller lock nut and washer</b> |                      | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 3       | <b>Impeller key</b>                 |                      | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 4       | <b>Volute casing</b>                | Standard             | Cast iron G25  | GJL-250 (JL1040)         | ASTM Class 35 |
|         |                                     | X                    | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 5       | <b>Casing cover</b>                 | Standard             | Cast iron G20  | GJL-200 (JL1030)         | ASTM Class 30 |
|         |                                     | X                    | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 6       | <b>Motor bracket</b>                |                      | Cast iron G20  | GJL-200 (JL1030)         | ASTM Class 30 |
| 7       | <b>Stub shaft</b>                   |                      | Stainless steel  | X5CrNiMo17-12-2/ 1.4401  | AISI 316      |
| 8       | <b>O-ring</b>                       | Standard             | NBR  |                          |               |
|         |                                     | E                    | EPDM   |                          |               |
|         |                                     | V                    | FKM  |                          |               |
| 9       | <b>Mechanical seal</b>              |                      | (Search for the material in the mechanical seal table) |                          |               |
| 10      | <b>Fill and drain plugs</b>         | Fill and drain plugs | Brass  | CU ZN 40 PB2 UNI 5705/65 | C37700        |

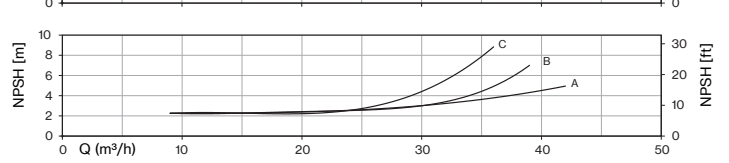
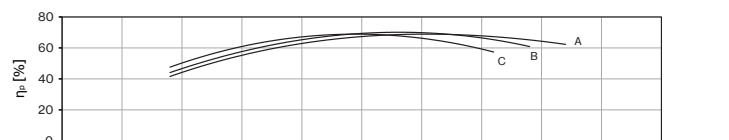
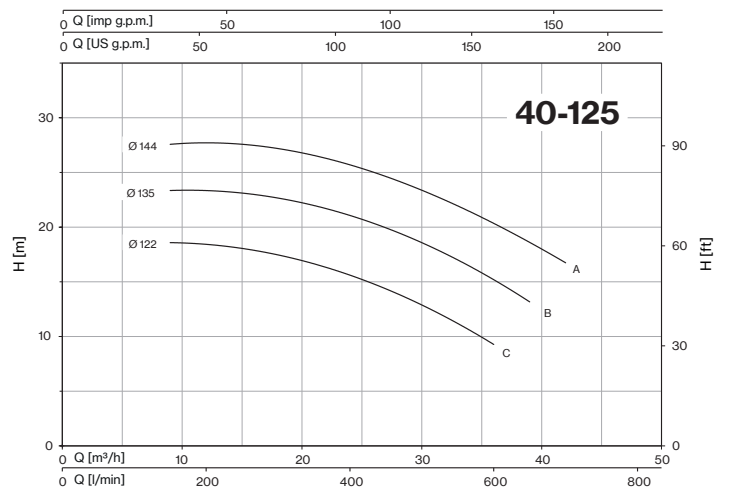
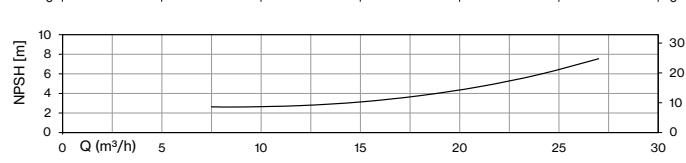
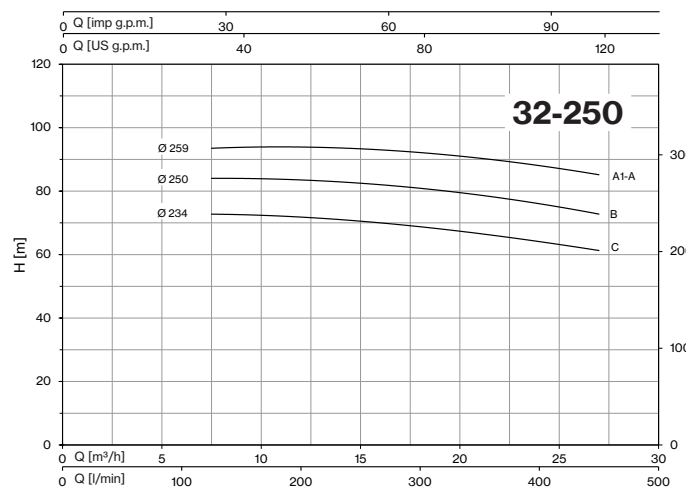
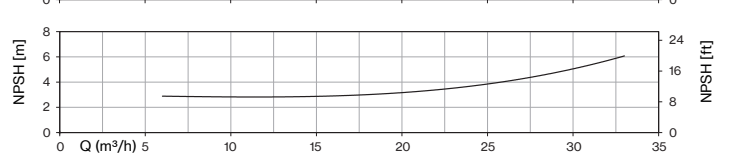
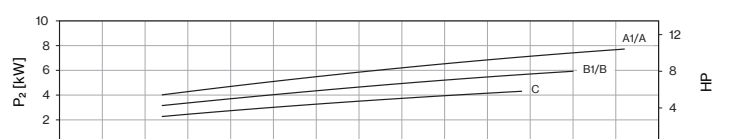
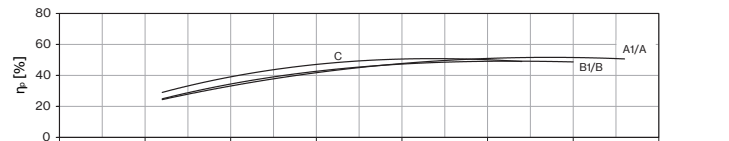
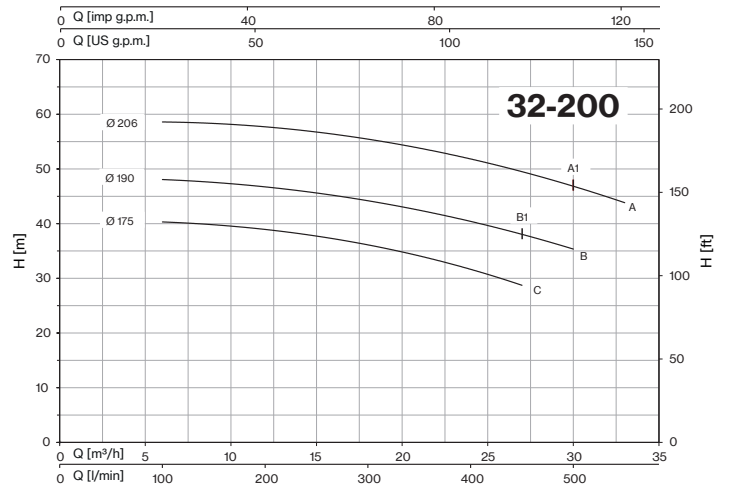
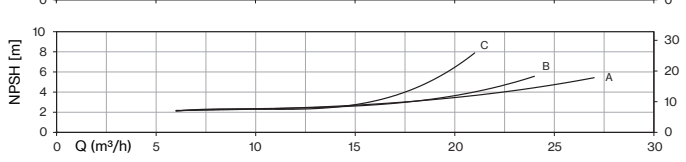
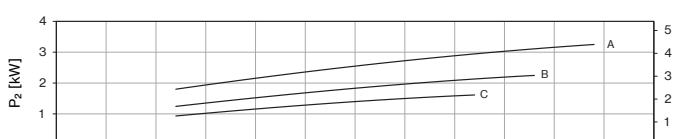
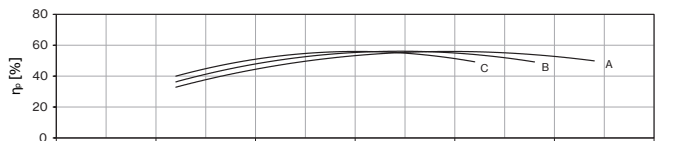
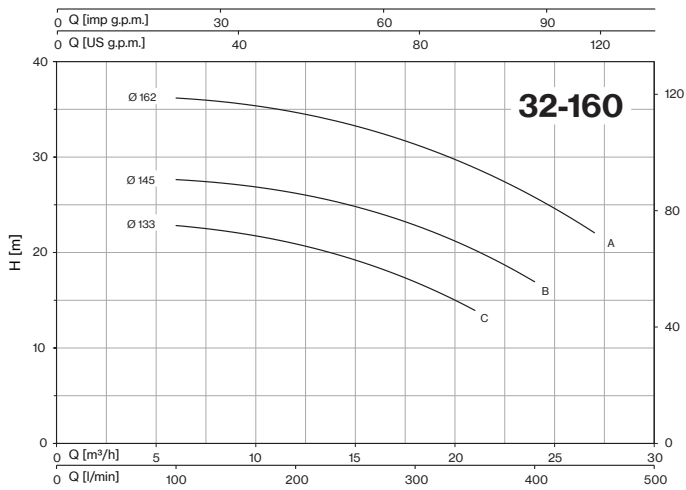
# CMG-CMGX ~ 2900 rpm

Centrifugal Flanged  
EN 733

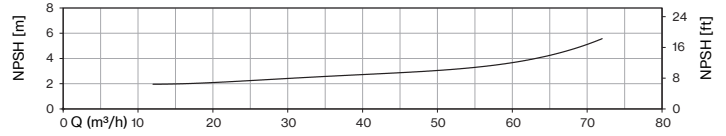
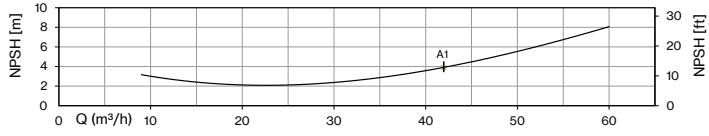
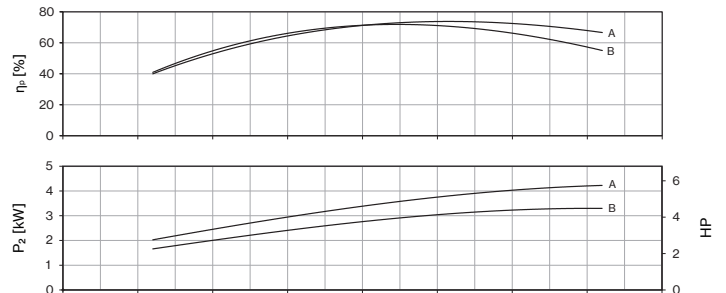
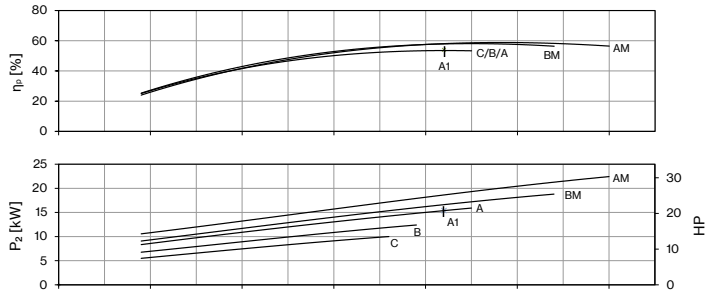
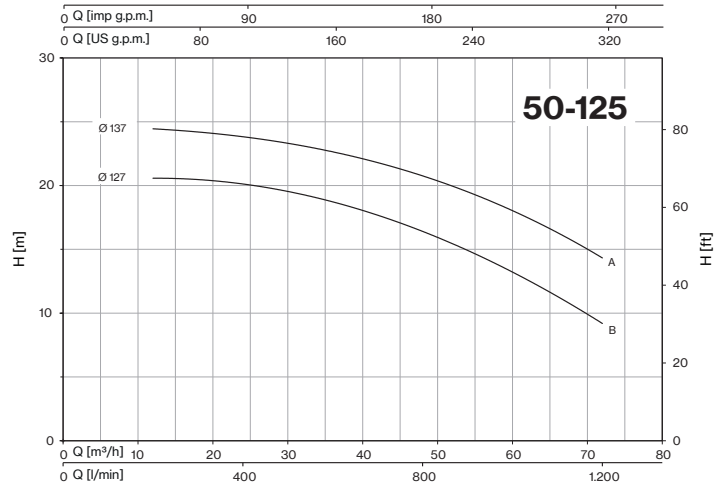
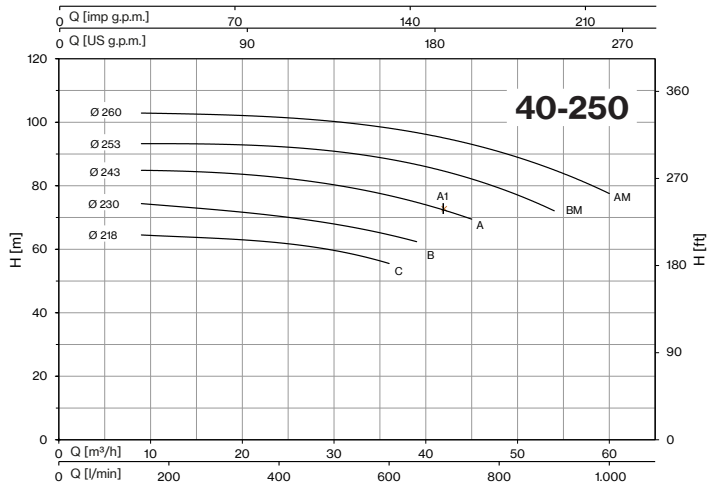
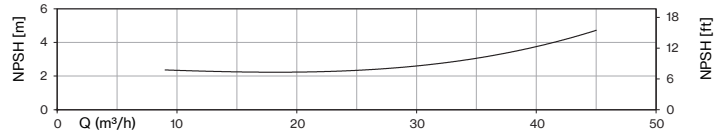
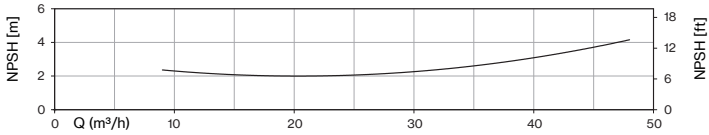
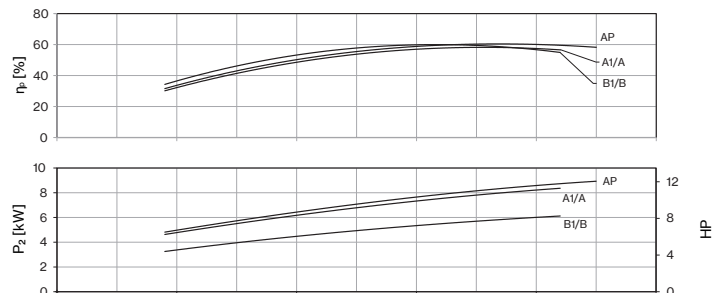
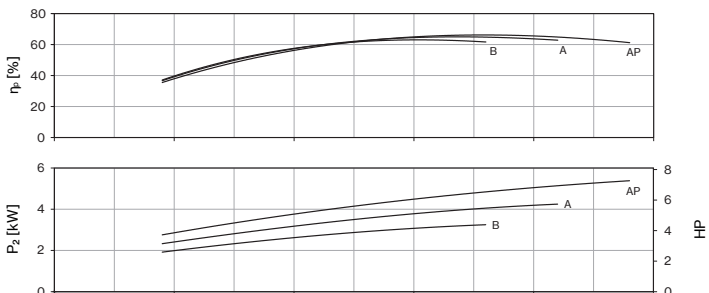
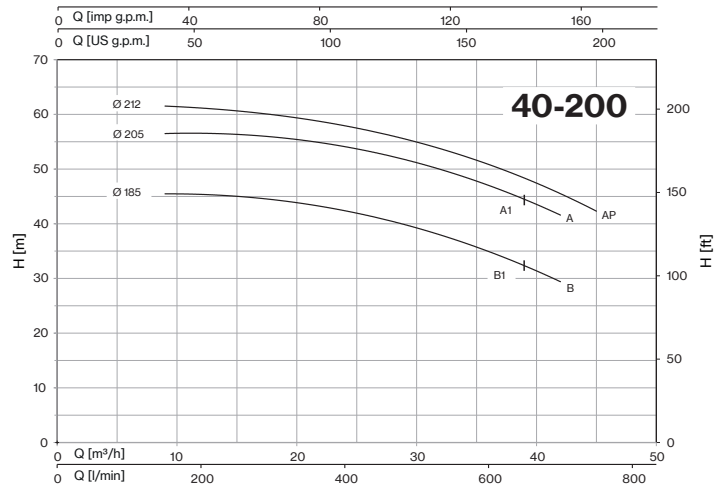
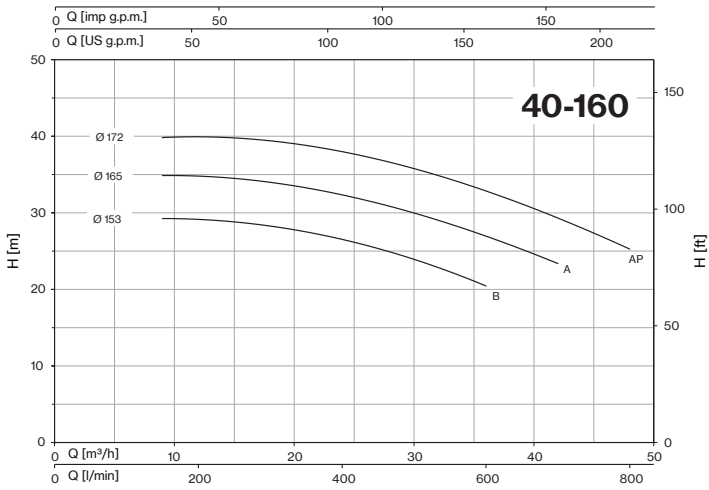
| TYPE -<br>50 Hz | P2 | Motor<br>Size | Q (m³/h - l/min)             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
|-----------------|----|---------------|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|                 |    |               | 0                            | 96                    | 108                   | 120                   | 132                   | 138                   | 144                   | 156                   | 168                   | 180                   | 195                   | 210                   | 225                   | 240                   | 255                   | 270                   | 300                   | 330                   | 360                   |  |
|                 |    |               | 0                            | 1600                  | 1800                  | 2000                  | 2200                  | 2300                  | 2400                  | 2600                  | 2800                  | 3000                  | 3250                  | 3500                  | 3750                  | 4000                  | 4250                  | 4500                  | 5000                  | 5500                  | 6000                  |  |
|                 |    |               | H (m)                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
|                 |    |               | <i>pump input power (kW)</i> |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| <b>80-250B</b>  | 45 | 225M          | 77,2                         | 80,0                  | 79,0                  | 77,5                  | 75,3                  | 74,2                  | 73,1                  | 71,0                  | 69,0                  | 67,0                  | 64,5                  | 61,8                  | 58,8                  |                       |                       |                       |                       |                       |                       |  |
|                 |    |               | <a href="#">14,01</a>        | <a href="#">30,93</a> | <a href="#">32,60</a> | <a href="#">34,34</a> | <a href="#">36,13</a> | <a href="#">37,02</a> | <a href="#">37,86</a> | <a href="#">39,38</a> | <a href="#">40,78</a> | <a href="#">42,10</a> | <a href="#">43,60</a> | <a href="#">44,94</a> | <a href="#">46,15</a> |                       |                       |                       |                       |                       |                       |  |
| <b>80-250A</b>  | 55 | 250M          | 90,0                         | 92,8                  | 91,1                  | 89,3                  | 87,4                  | 86,4                  | 85,4                  | 83,1                  | 80,7                  | 78,5                  | 75,7                  | 72,4                  | 68,8                  | 65,2                  |                       |                       |                       |                       |                       |  |
|                 |    |               | <a href="#">16,74</a>        | <a href="#">36,56</a> | <a href="#">38,57</a> | <a href="#">40,54</a> | <a href="#">42,46</a> | <a href="#">43,39</a> | <a href="#">44,31</a> | <a href="#">46,12</a> | <a href="#">47,81</a> | <a href="#">49,29</a> | <a href="#">50,92</a> | <a href="#">52,59</a> | <a href="#">54,18</a> | <a href="#">55,50</a> |                       |                       |                       |                       |                       |  |
| <b>100-200B</b> | 45 | 225M          | 56,1                         |                       | 56,8                  | 56,5                  | 56,1                  | 55,9                  | 55,6                  | 55,1                  | 54,5                  | 53,9                  | 53,1                  | 52,2                  | 51,4                  | 50,4                  | 49,0                  | 47,5                  | 43,8                  | 39,7                  |                       |  |
|                 |    |               | <a href="#">21,75</a>        |                       | <a href="#">28,84</a> | <a href="#">29,78</a> | <a href="#">30,74</a> | <a href="#">31,24</a> | <a href="#">31,75</a> | <a href="#">32,81</a> | <a href="#">33,89</a> | <a href="#">35,04</a> | <a href="#">36,50</a> | <a href="#">37,82</a> | <a href="#">38,89</a> | <a href="#">39,85</a> | <a href="#">40,77</a> | <a href="#">41,60</a> | <a href="#">42,92</a> | <a href="#">43,82</a> |                       |  |
| <b>100-200A</b> | 55 | 250M          | 61,1                         |                       | 62,2                  | 61,8                  | 61,5                  | 61,2                  | 61,0                  | 60,5                  | 59,9                  | 59,5                  | 58,9                  | 58,3                  | 57,4                  | 56,4                  | 55,2                  | 53,8                  | 50,6                  | 46,8                  | 42,5                  |  |
|                 |    |               | <a href="#">24,57</a>        |                       | <a href="#">33,04</a> | <a href="#">34,07</a> | <a href="#">35,11</a> | <a href="#">35,64</a> | <a href="#">36,18</a> | <a href="#">37,28</a> | <a href="#">38,39</a> | <a href="#">39,49</a> | <a href="#">40,86</a> | <a href="#">42,23</a> | <a href="#">43,60</a> | <a href="#">44,97</a> | <a href="#">46,20</a> | <a href="#">47,28</a> | <a href="#">49,05</a> | <a href="#">50,53</a> | <a href="#">51,62</a> |  |
| <b>100-250C</b> | 55 | 250M          | 71,9                         |                       |                       | 73,2                  | 73,1                  | 73,0                  | 72,9                  | 72,6                  | 72,2                  | 71,8                  | 71,1                  | 70,3                  | 69,3                  | 67,9                  | 66,4                  | 64,7                  | 61,0                  |                       |                       |  |
|                 | 75 | 280S          | <a href="#">24,75</a>        |                       |                       | <a href="#">40,12</a> | <a href="#">41,93</a> | <a href="#">42,84</a> | <a href="#">43,70</a> | <a href="#">45,28</a> | <a href="#">46,77</a> | <a href="#">48,21</a> | <a href="#">49,94</a> | <a href="#">51,65</a> | <a href="#">53,38</a> | <a href="#">55,05</a> | <a href="#">56,66</a> | <a href="#">58,19</a> | <a href="#">60,99</a> |                       |                       |  |
| <b>100-250B</b> | 75 | 280S          | 83,6                         |                       |                       | 83,7                  | 83,5                  | 83,4                  | 83,2                  | 82,9                  | 82,5                  | 82,1                  | 81,4                  | 80,8                  | 80,0                  | 79,0                  | 77,9                  | 76,4                  | 72,0                  | 67,6                  |                       |  |
|                 |    |               | <a href="#">29,69</a>        |                       |                       | <a href="#">47,10</a> | <a href="#">49,06</a> | <a href="#">50,04</a> | <a href="#">51,01</a> | <a href="#">52,92</a> | <a href="#">54,76</a> | <a href="#">56,47</a> | <a href="#">58,46</a> | <a href="#">60,26</a> | <a href="#">61,86</a> | <a href="#">63,49</a> | <a href="#">65,17</a> | <a href="#">66,93</a> | <a href="#">70,91</a> | <a href="#">73,78</a> |                       |  |
| <b>100-250A</b> | 90 | 280M          | 93,5                         |                       |                       | 93,9                  | 93,7                  | 93,5                  | 93,4                  | 92,9                  | 92,4                  | 91,8                  | 90,9                  | 89,9                  | 88,8                  | 87,4                  | 85,7                  | 84,0                  | 80,4                  | 75,8                  | 70,8                  |  |
|                 |    |               | <a href="#">32,71</a>        |                       |                       | <a href="#">51,99</a> | <a href="#">54,14</a> | <a href="#">55,23</a> | <a href="#">56,31</a> | <a href="#">58,48</a> | <a href="#">60,60</a> | <a href="#">62,57</a> | <a href="#">64,88</a> | <a href="#">66,97</a> | <a href="#">68,84</a> | <a href="#">70,81</a> | <a href="#">72,81</a> | <a href="#">74,73</a> | <a href="#">78,17</a> | <a href="#">81,33</a> | <a href="#">84,50</a> |  |



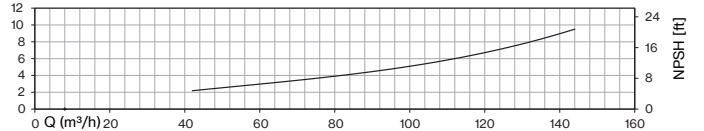
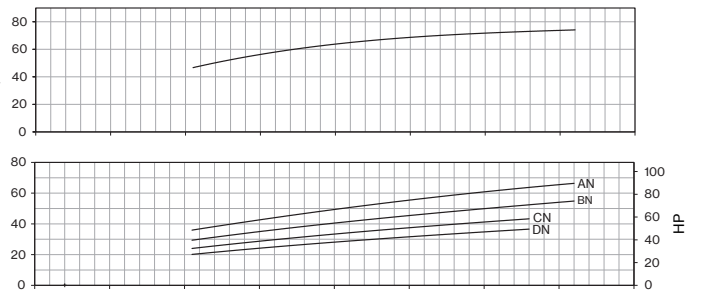
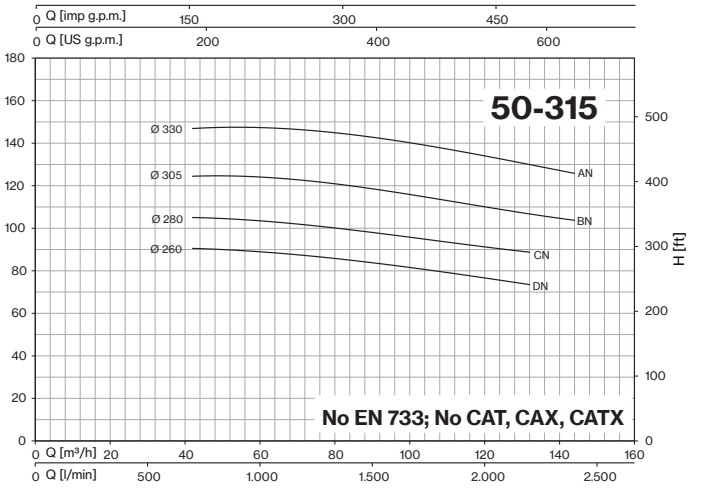
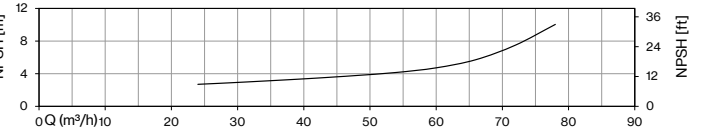
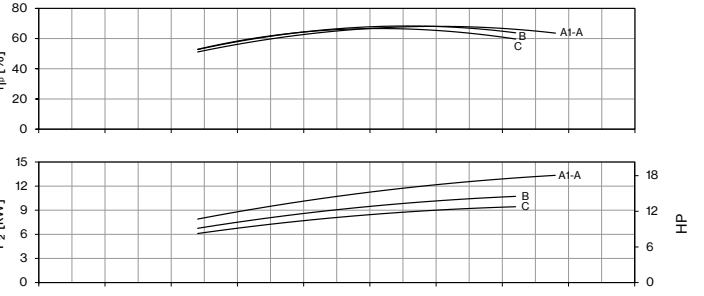
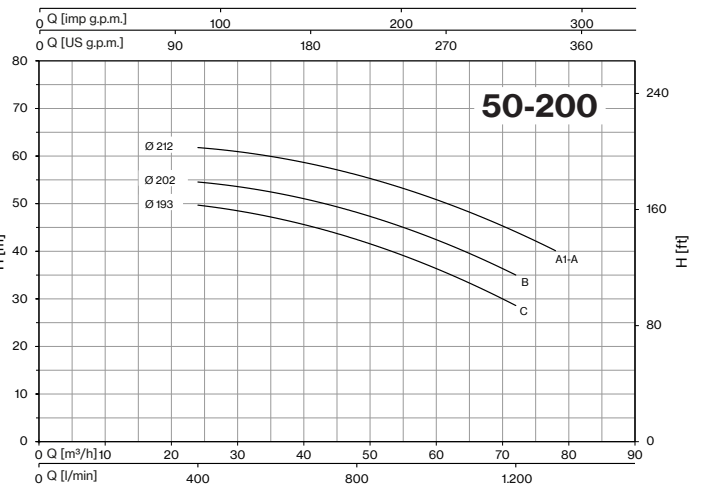
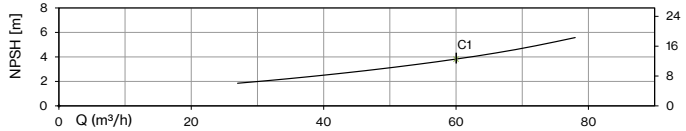
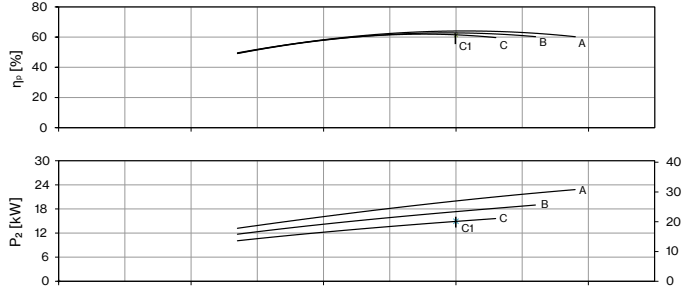
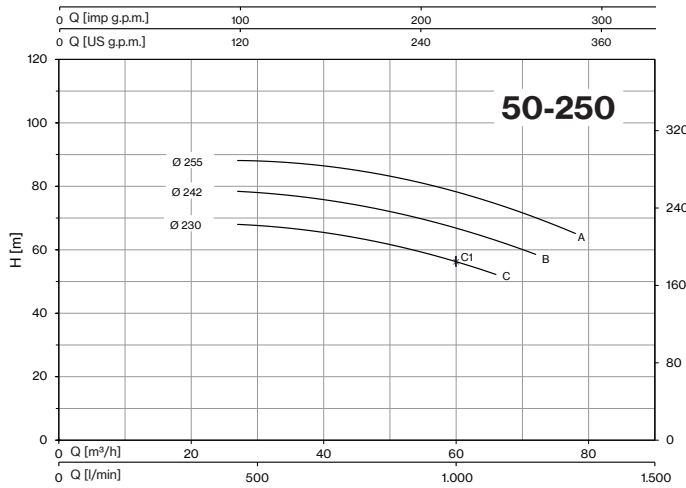
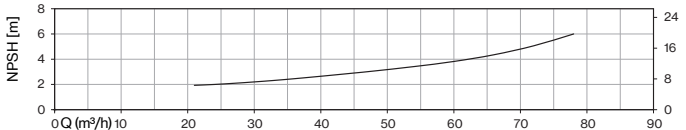
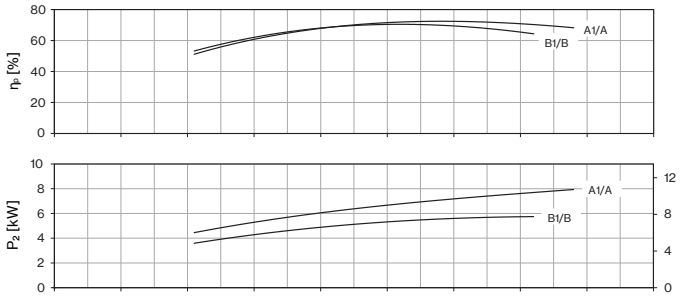
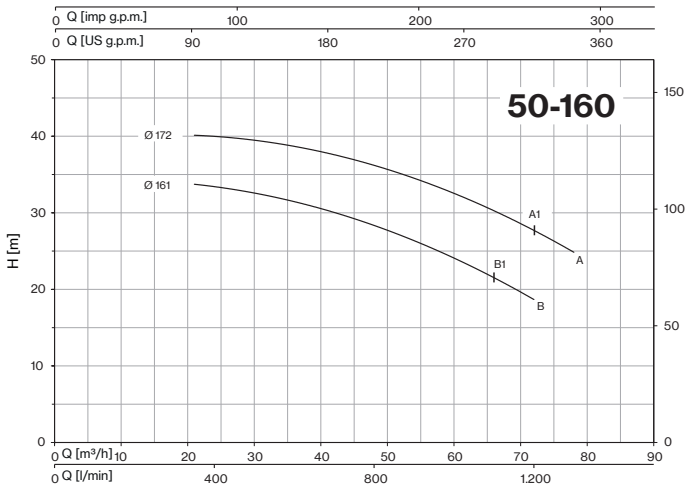
# CM-CMG-CMGX-CA-CAX ~ EN 733



# CM-CMG-CMGX-CA-CAX ~ EN 733



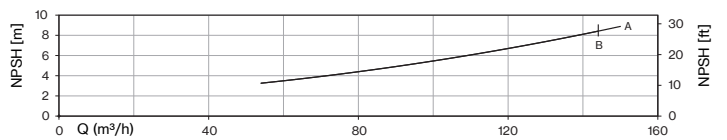
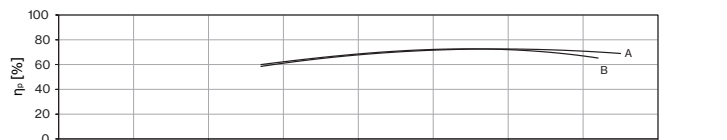
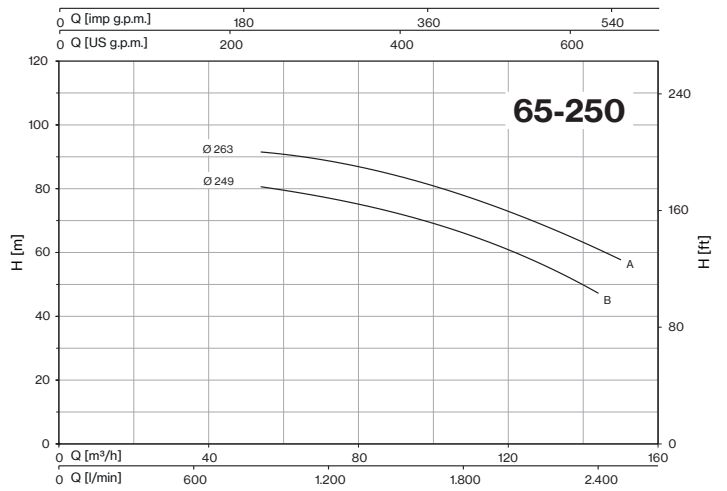
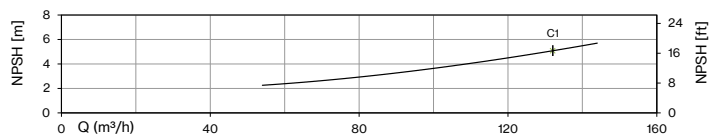
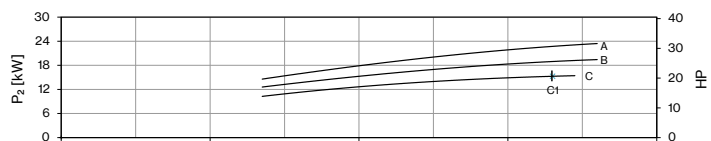
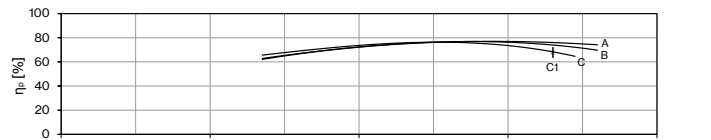
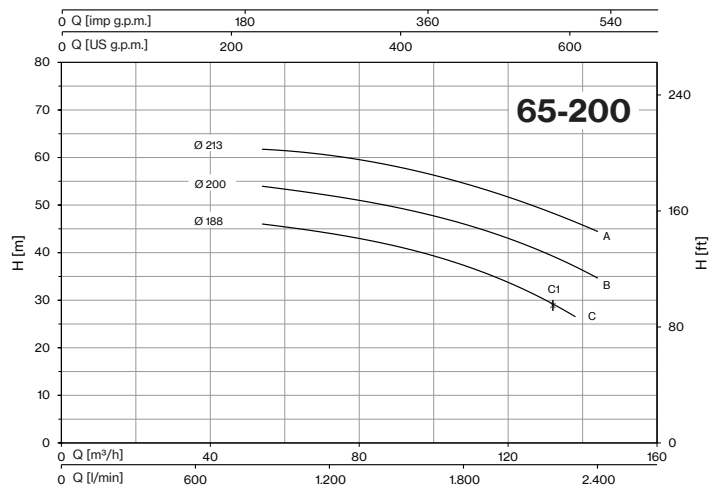
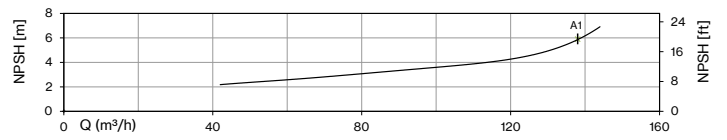
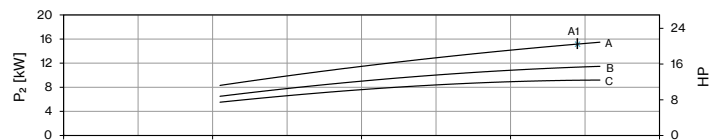
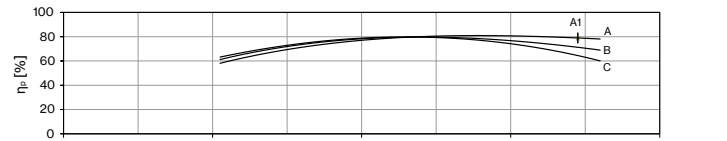
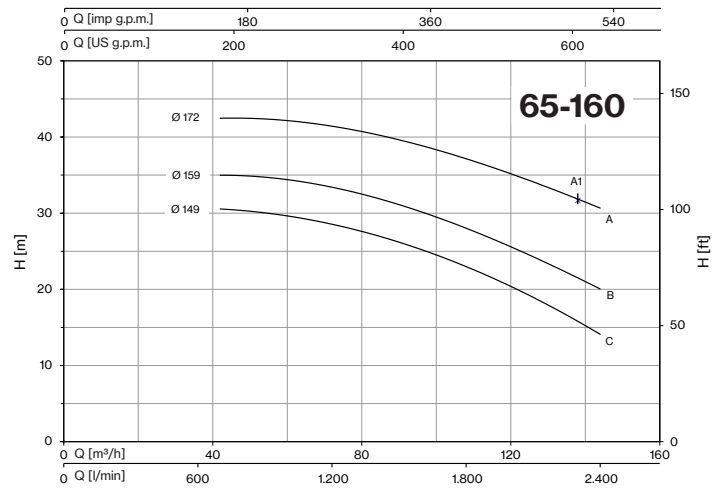
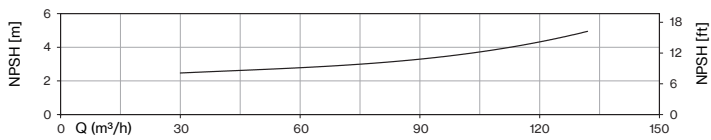
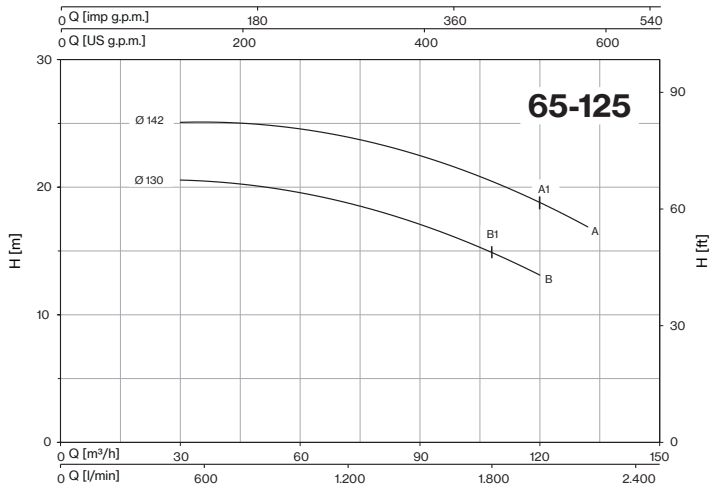
# CM-CMG-CMGX-CA-CAX ~ EN 733



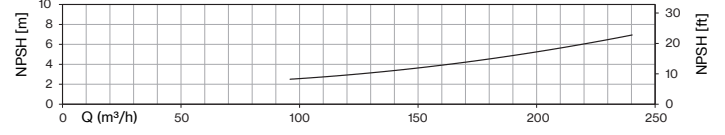
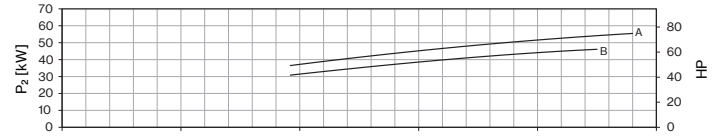
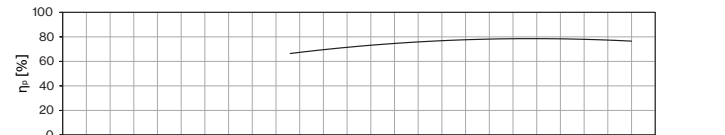
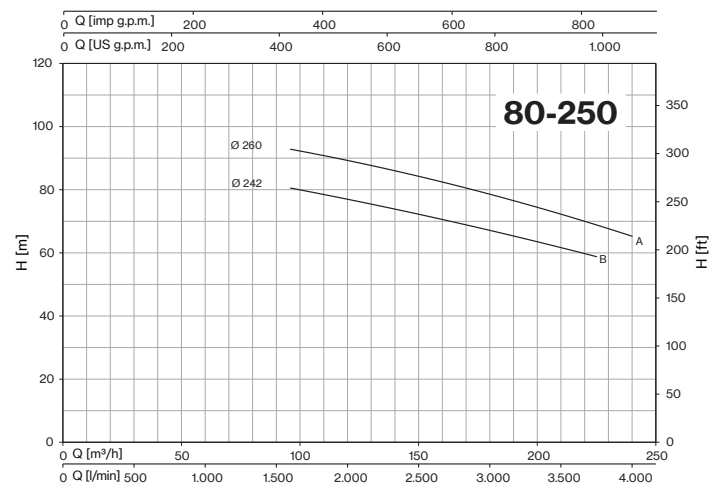
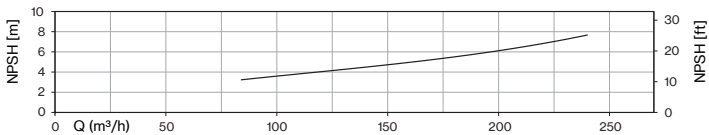
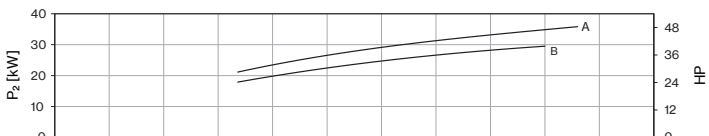
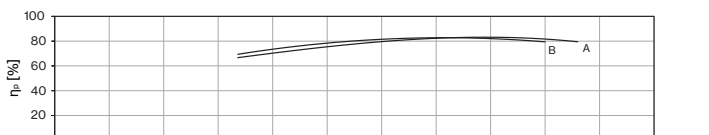
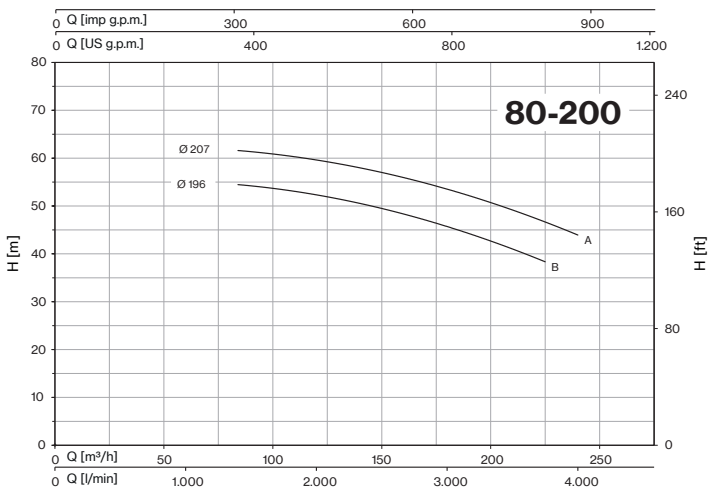
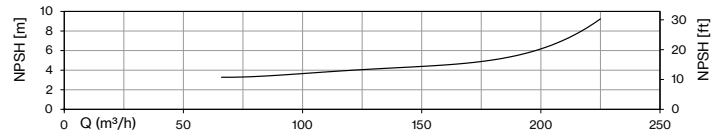
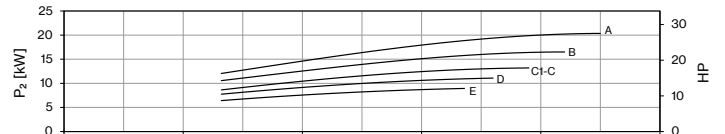
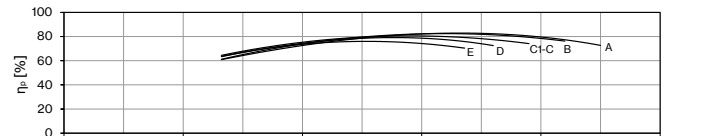
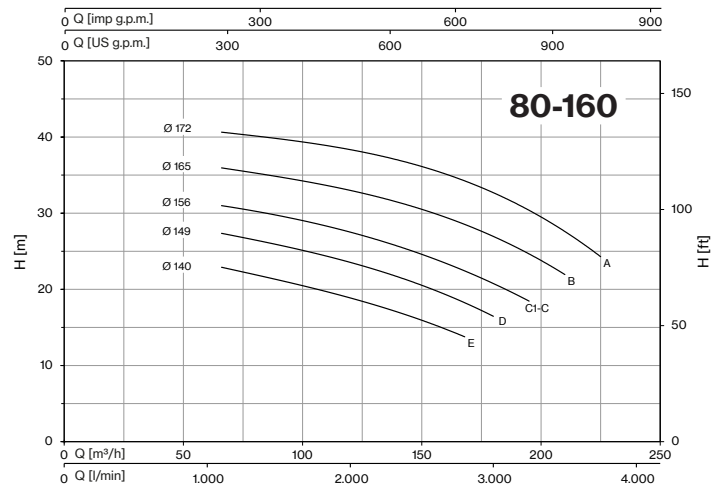
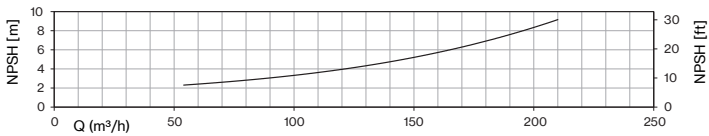
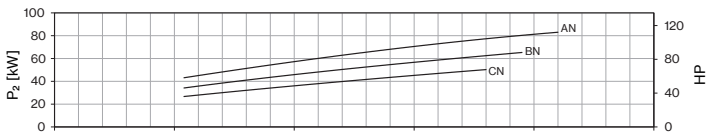
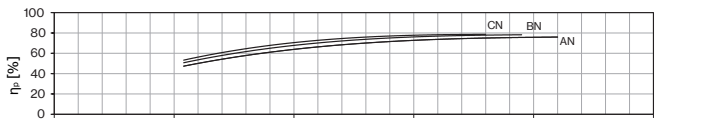
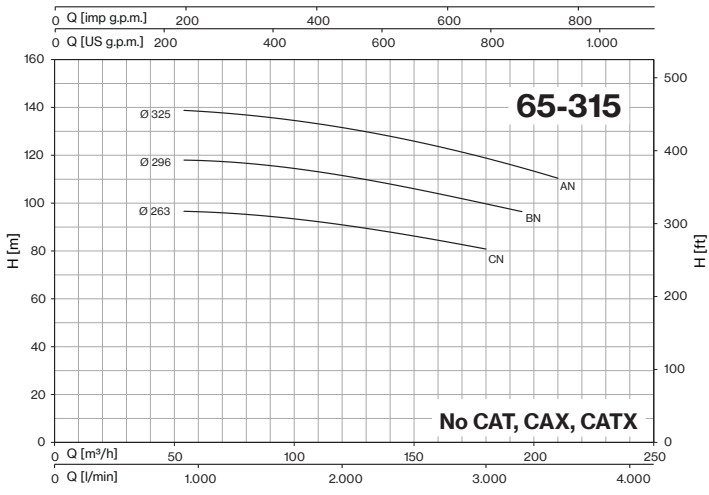
No EN 733; No CAT, CAX, CATX



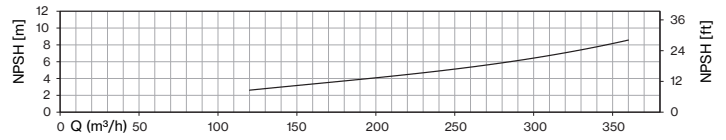
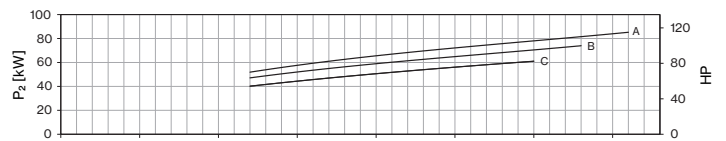
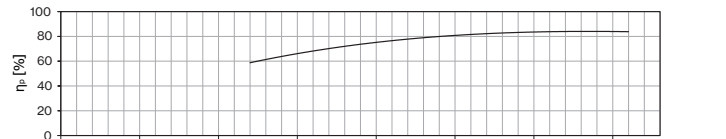
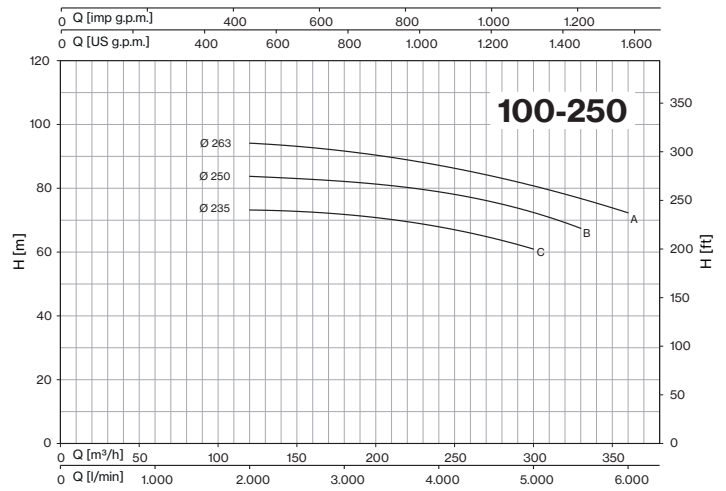
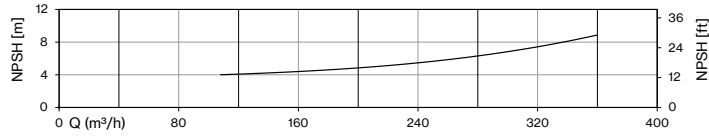
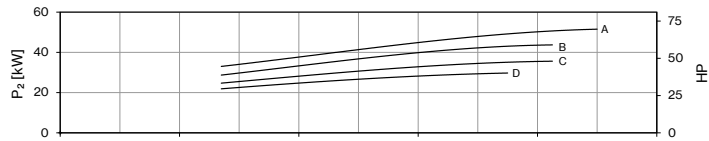
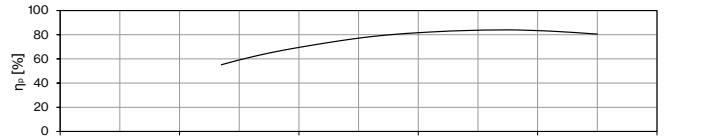
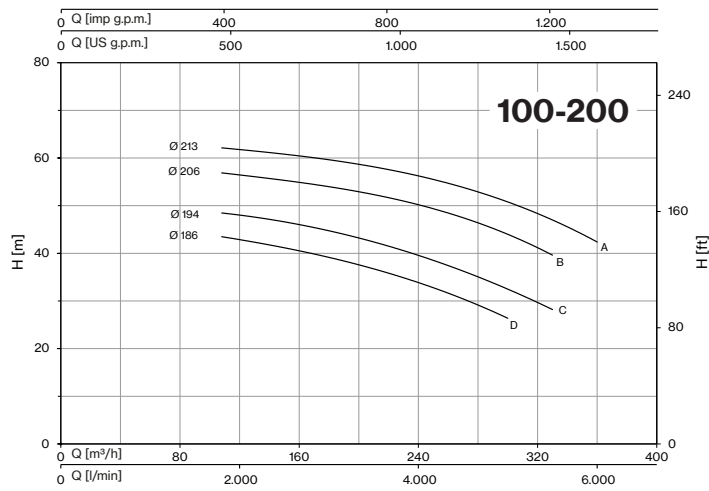
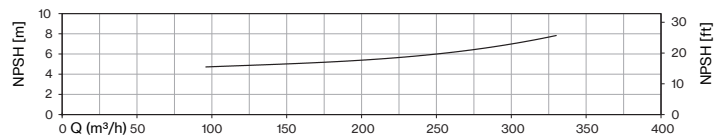
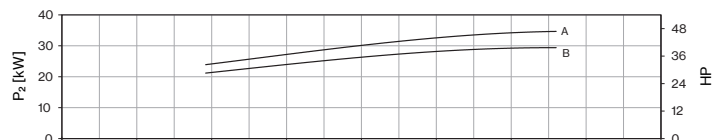
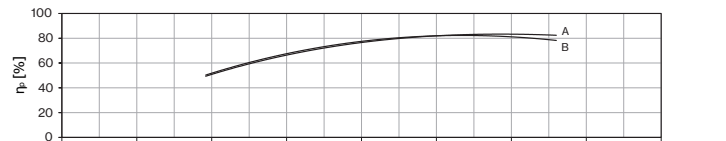
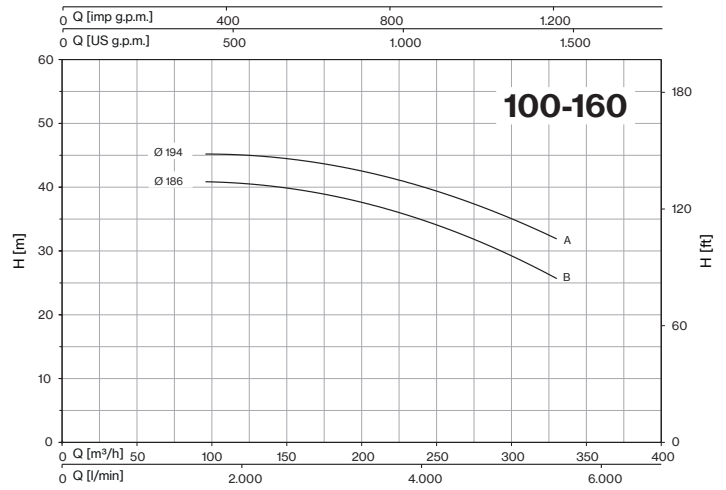
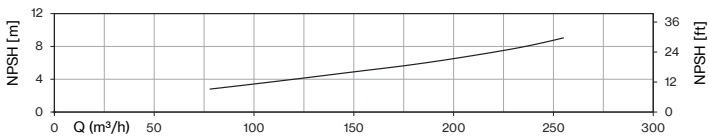
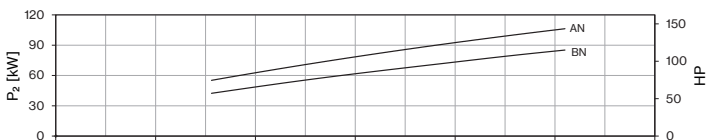
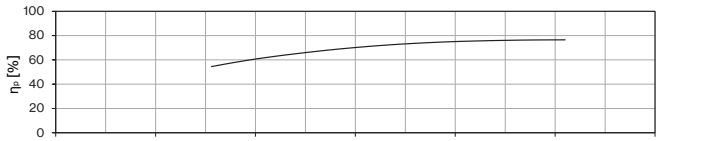
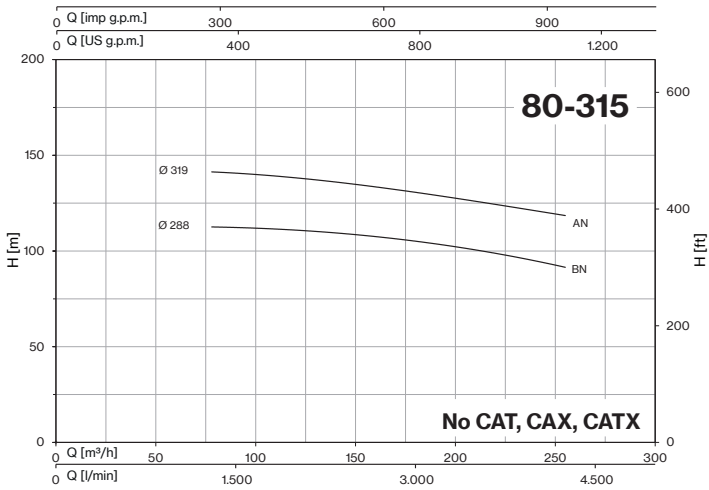
# CM-CMG-CMGX-CA-CAX ~ EN 733



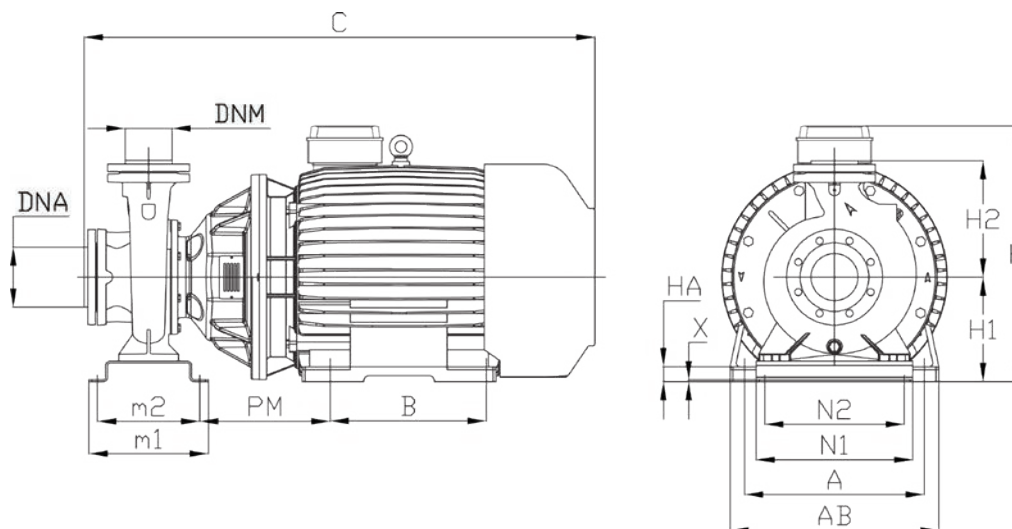
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


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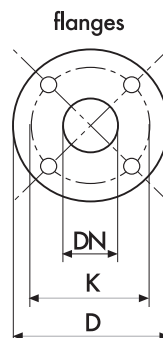


# CMG-CMGX ~ EN 733





| TYPE            | DIMENSIONS (mm) |     |     |     |     |     |     |     |     |     |     |      |    |     |      |  |      |     | Kg    |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|------|---|------|-----|-------|
|                 | m1              | m2  | N2  | N1  | H1  | H2  | H   | A   | AB  | B   | PM  | C    | HA | DNA | DNM  | I   | L    | M   |       |
| <b>80-250B</b>  | 200             | 120 | 315 | 406 | 225 | 317 | 550 | 356 | 435 | 311 | 356 | 1130 | 28 | 100 | 80   | 655   | 655  | 830 | 440   |
| <b>80-250A</b>  | 320             | 280 | 360 | 420 | 280 | 317 | 650 | 406 | 485 | 349 | 325 | 1240 | 58 |     |      | 655   | 655  | 830 | 564   |
| <b>100-200B</b> | 200             | 120 | 280 | 360 | 225 | 321 | 550 | 356 | 435 | 311 | 356 | 1130 | 28 | 125 | 100  | 655   | 1400 | 830 | 442,5 |
| <b>100-200A</b> | 320             | 280 | 360 | 420 | 280 | 321 | 650 | 406 | 485 | 349 | 325 | 1240 | 60 |     |      | 655   | 1400 | 830 | 562   |
| <b>100-250C</b> | 320             | 280 | 360 | 420 | 280 | 321 | 675 | 406 | 485 | 349 | 325 | 1315 | 60 |     |      | 655   | 1400 | 830 | 758   |
| <b>100-250B</b> | 320             | 280 | 360 | 420 | 280 | 321 | 675 | 457 | 545 | 368 | 347 | 1315 | 35 |     |      | 655   | 1400 | 830 | 760   |
| <b>100-250A</b> | 320             | 280 | 360 | 420 | 280 | 321 | 675 | 457 | 545 | 419 | 347 | 1370 | 35 | 655 | 1400 | 830   | 774  |     |       |

| DIMENSIONS (mm) |     |     |       |    |
|-----------------|-----|-----|-------|----|
| DN              | D   | K   | holes |    |
|                 |     |     | n°    | Ø  |
| 80              | 200 | 160 | 8     | 18 |
| 100             | 220 | 180 | 8     | 18 |
| 125             | 250 | 210 | 8     | 18 |



## CMG Serie-Mechanical seal and bearings

| MECHANICAL SEAL   | PUMP MODEL               | SHAFT Ø |  | STANDARD MATERIAL             | OPTIONAL                       |                               |                    |                   |
|---|--------------------------|---------|--|-------------------------------|--------------------------------|-------------------------------|--------------------|-------------------|
|   |                          |         |  |                               | E                              | V                             | 2E                 | 2V                |
|  | 80-250, 100-200, 100-250 | 45mm    | <b>Rotating face</b><br><b>Stationary face</b><br><b>Elastomer</b> | CrNi-steel<br>Graphite<br>NBR | CrNi-steel<br>Graphite<br>EPDM | CrNi-steel<br>Graphite<br>FKM | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |

| MOTOR BEARINGS  | PUMP MODEL               | TYPE       |            |
|---|--------------------------|------------|------------|
|  | 80-250, 100-200          | 6313-ZZ C3 | 6313-ZZ C3 |
|   | 80-250, 100-200, 100-250 | 6314-ZZ C3 | 6314-ZZ C3 |