



### GMV



Submersible pumps with vortex impeller in cast iron EN-GJL-250

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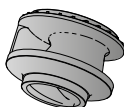
### GMVS



Submersible pumps with vortex impeller in cast iron with polyurethane coating

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### GMC



Submersible pumps with single channel impeller in cast iron EN-GJL-250

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### GMN



Submersible pumps with channels impeller in cast iron EN-GJL-250

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### GMG



Submersible pumps with grinder in cast iron EN-GJL-250

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### I-GMV



Submersible pumps with vortex impeller in stainless steel AISI316

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### I-GMC



Submersible pumps with single channel impeller in stainless steel AISI316

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### I-GMN



Submersible pumps with channels impeller in stainless steel AISI316

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### B-GMV



Submersible pumps with vortex impeller in Marine Bronze B10

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### B-GMC



Submersible pumps with single channel impeller in Marine Bronze B10

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### B-GMN



Submersible pumps with channels impeller in Marine Bronze B10

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A new series of submersible pumps with high efficiency hydraulics designed to move slurry, sewage and industrial process fluids.

The range covers a wide field of use with head up to 75 m And flows up to 2300 m<sup>3</sup>/h, with a maximum solid passage up to 140 mm keeping the risk of blockage to a minimum.

Dimensionally designed for heavy demand, even on critical applications.

Explosion proof version on request.

### Pump designation

**B-GM V 4 M 50-80 A**

Version B = bronze  
I = stainless steel  
(no indication: cast iron version)

Series \_\_\_\_\_

Impeller type V = Vortex  
C = Singlechannel  
N = Channels  
G = Grinder

4-6-8 poles motor (no indication: 2 poles)

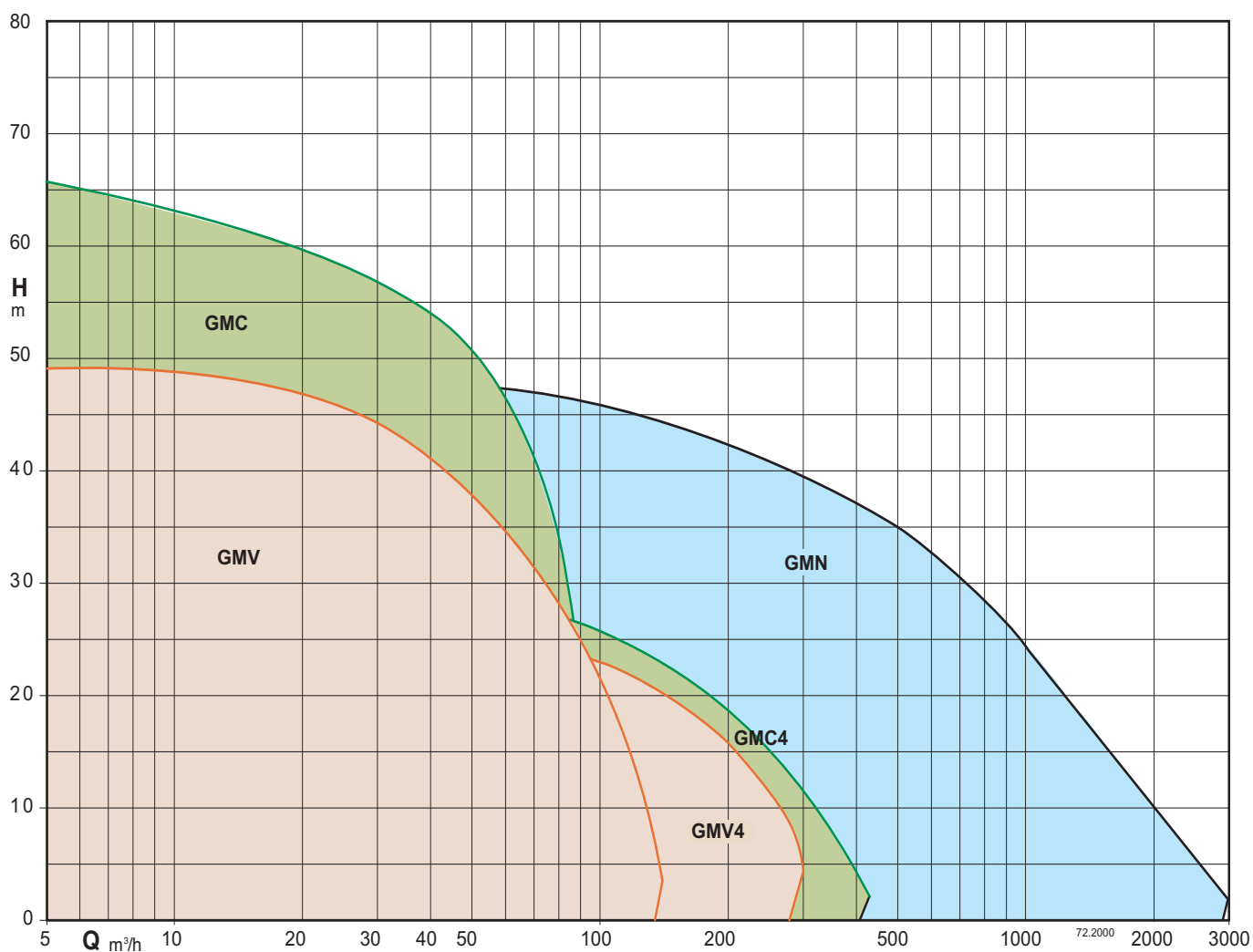
Singlephase M (no indication: threephase)

Free passage \_\_\_\_\_

Discharge diameter in mm \_\_\_\_\_

Pump size \_\_\_\_\_

### Coverage chart



Tolerances according to ISO 9906, annex A.



### Main materials

Pump casing: cast iron EN-GJL-250  
 Impeller: cast iron EN-GJL-250+Ni  
 Motor casing: cast iron EN-GJL-250  
 Motor cover: cast iron EN-GJL-250  
 Shaft: stainless steel AISI 420B  
 Mechanical seal motor side: graphite/ceramic  
 Mechanical seal pump side: silicon carbide/silicon carbide

### Construction

Submersible pumps with vortex impeller.  
 Twin mechanical seal with oil chamber.  
 Delivery connection DN 80-100-150.

### Applications

Suitable to pump slurry and sewage waters with the presence of solid and filamentous parts in suspension, they are in particular pointed out for emptying septic tanks in the domestic, residential and industrial installations.  
 Solid passage diameter from 50 to 100 mm.

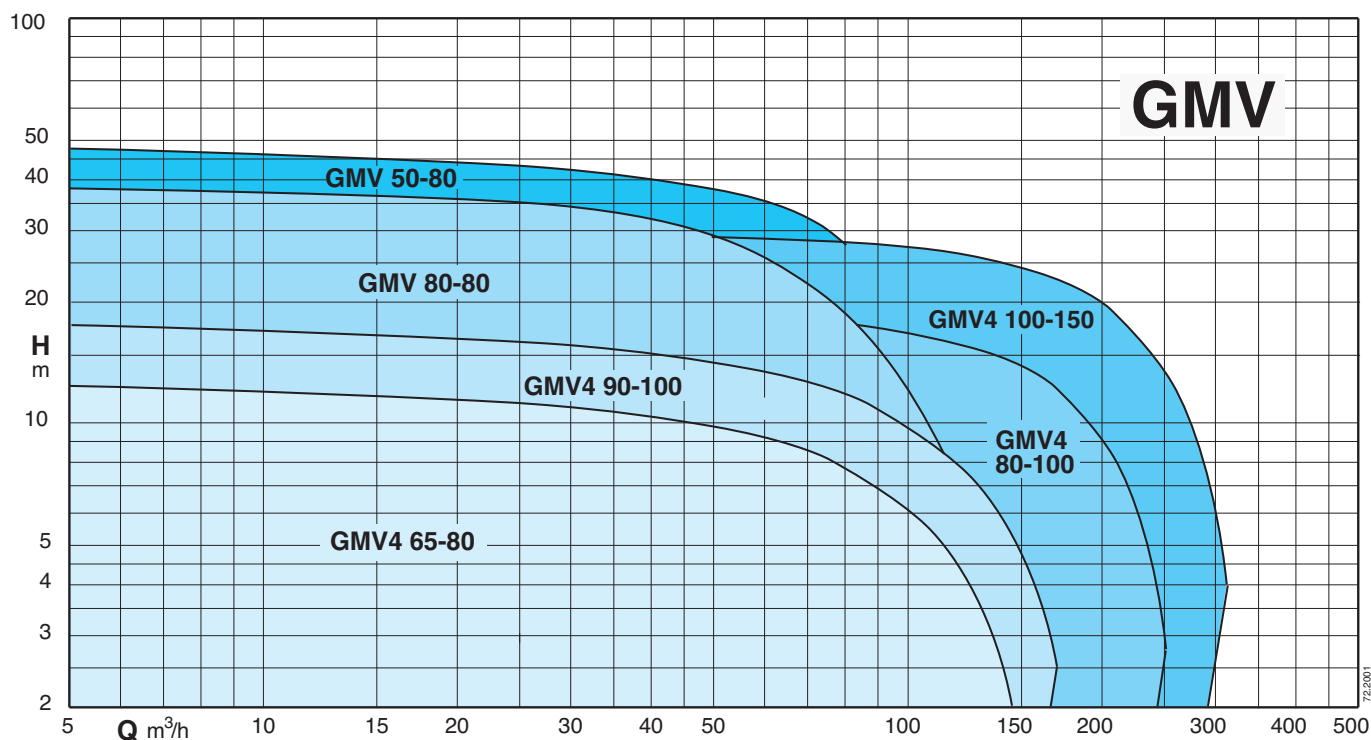
### Operating conditions

Liquid temperature up to 40 °C.  
 Maximum immersion depth: 20 m (with suitable cable length).  
 Continuous duty (with pump immersed at minimum level).

### Motor

2 or 4 poles induction, 50Hz  
 Three-phase version: 400V  $\pm$  10%, up to 3,2 kW  
 400/690V  $\pm$  10%, over 3,2 kW  
 Insulation Class: H  
 Protection degree: IP 68  
 N° of starting x hour: max 15 with regular intervals  
 Cable: H07RN-F, length 10 m  
 Other models: contact our sale office

### Coverage chart



**Technical data**

| TYPE          | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | ATEX<br>Eex |
|---------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|-------------|
| GMV 50-80F    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓           |
| GMV 50-80E    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓           |
| GMV 50-80D    | 5                    | 11                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 50                      | ●                    | ●                 | ✓           |
| GMV 50-80C    | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 50                      | ●                    | ●                 | ✓           |
| GMV 50-80B    | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 50                      | ●                    | ●                 | ✓           |
| GMV 50-80A    | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 50                      | ●                    | ●                 | ✓           |
| GMV 70-80B/A  | 10                   | 17,9                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 70                      | ●                    | ●                 | ✓           |
| GMV 70-80A/A  | 10                   | 17,9                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 70                      | ●                    | ●                 | ✓           |
| GMV 80-80B    | 15,9                 | 30                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 80                      | ●                    | ●                 | ✓           |
| GMV 80-80A    | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 80                      | ●                    | ●                 | ✓           |
| GMV 80-80S    | 22,4                 | 40,1                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 80                      | ●                    | ●                 | ✓           |
| GMV4 65-80D   | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 65                      | NO                   | NO                | ✓           |
| GMV4 65-80C   | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 65                      | NO                   | NO                | ✓           |
| GMV4 65-80B   | 3,8                  | 8                   | 3~ 400/690V  | 1450   | Y/Δ      | 80       | 65                      | ●                    | ●                 | ✓           |
| GMV4 65-80A   | 4,6                  | 9,5                 | 3~ 400/690V  | 1450   | Y/Δ      | 80       | 65                      | ●                    | ●                 | ✓           |
| GMV4 90-100B  | 7,1                  | 13,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 90                      | ●                    | ●                 | ✓           |
| GMV4 90-100A  | 7,1                  | 13,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 90                      | ●                    | ●                 | ✓           |
| GMV4 80-100C  | 11,6                 | 23,2                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMV4 80-100B  | 14,4                 | 29,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMV4 80-100A  | 14,4                 | 29,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMV4 80-100S  | 27                   | 52,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMV4 100-150E | 27                   | 52,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |
| GMV4 100-150B | 25                   | 48                  | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |
| GMV4 100-150A | 35,7                 | 65,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |

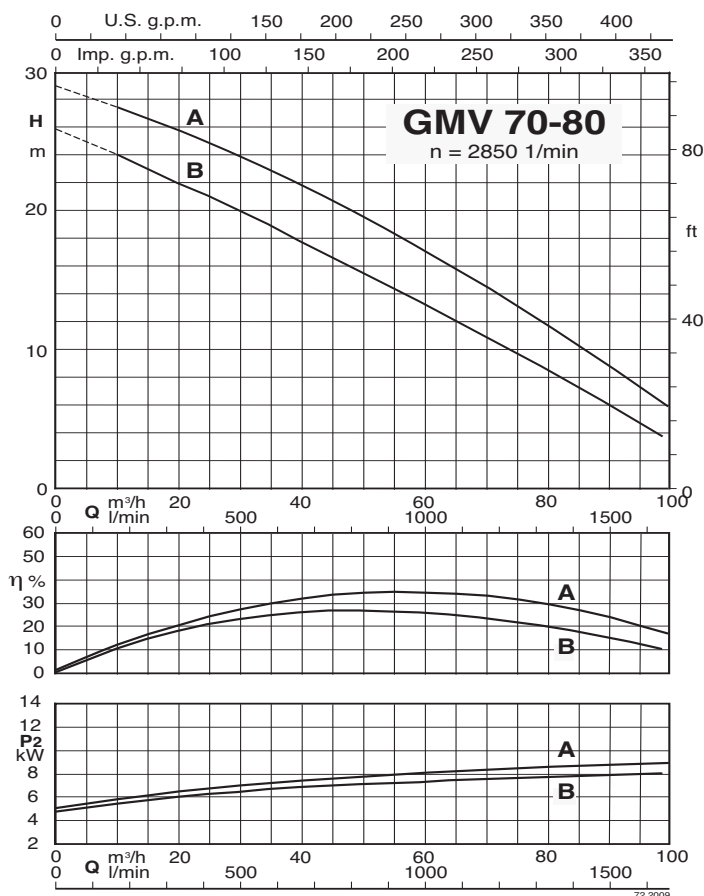
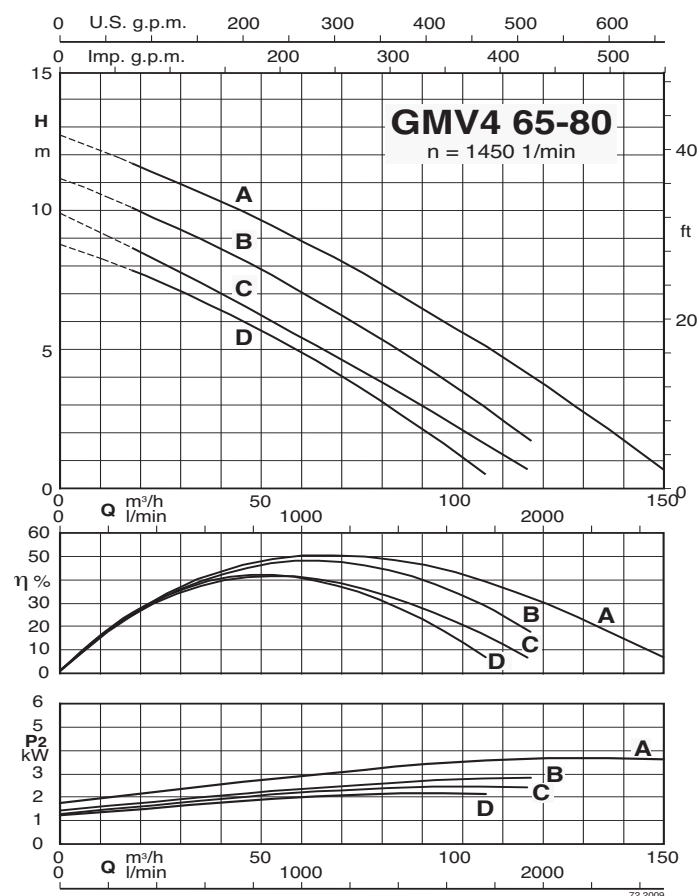
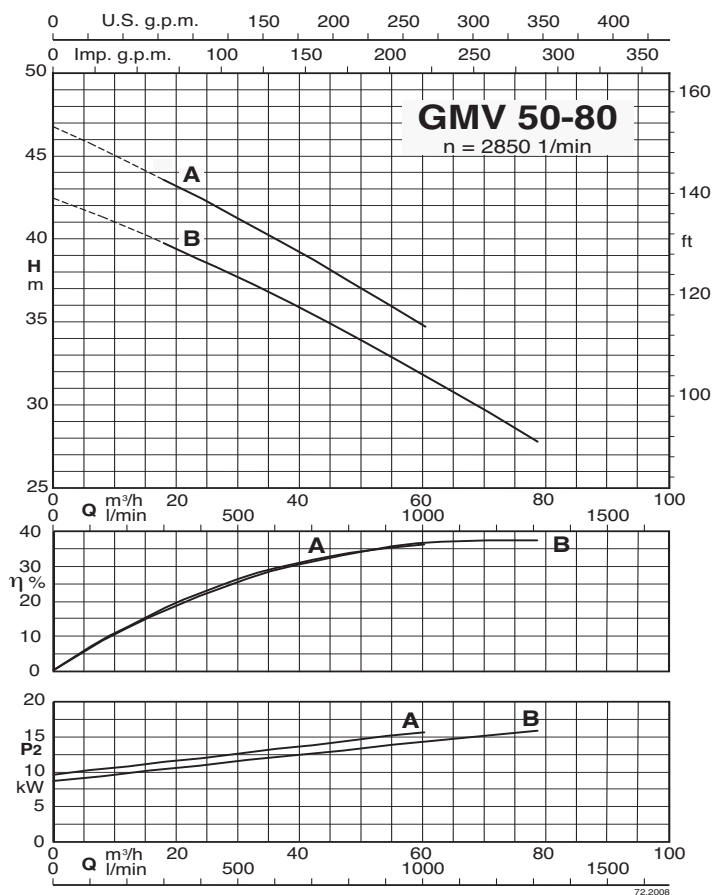
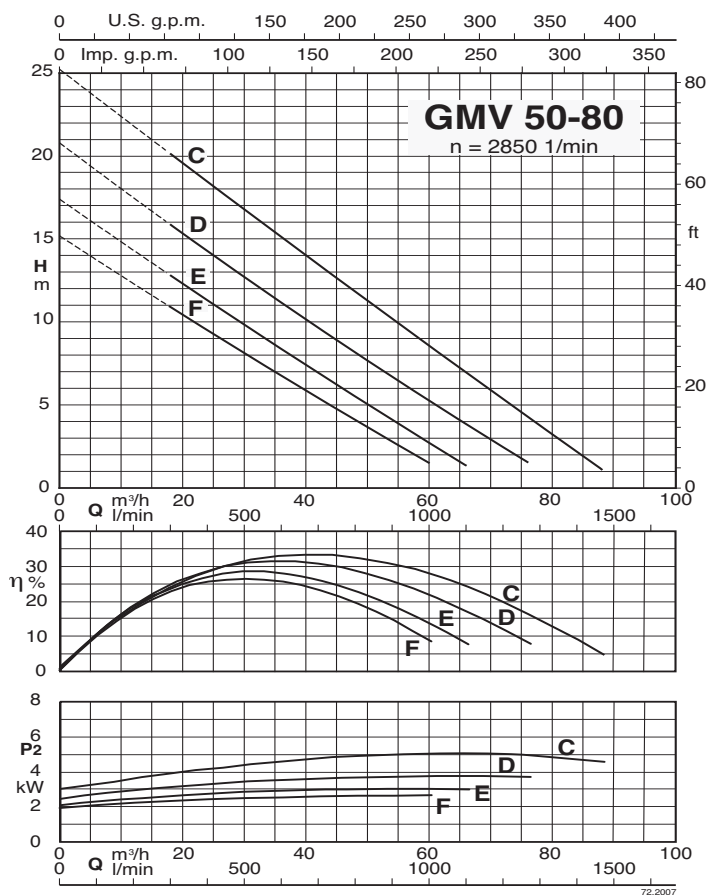
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

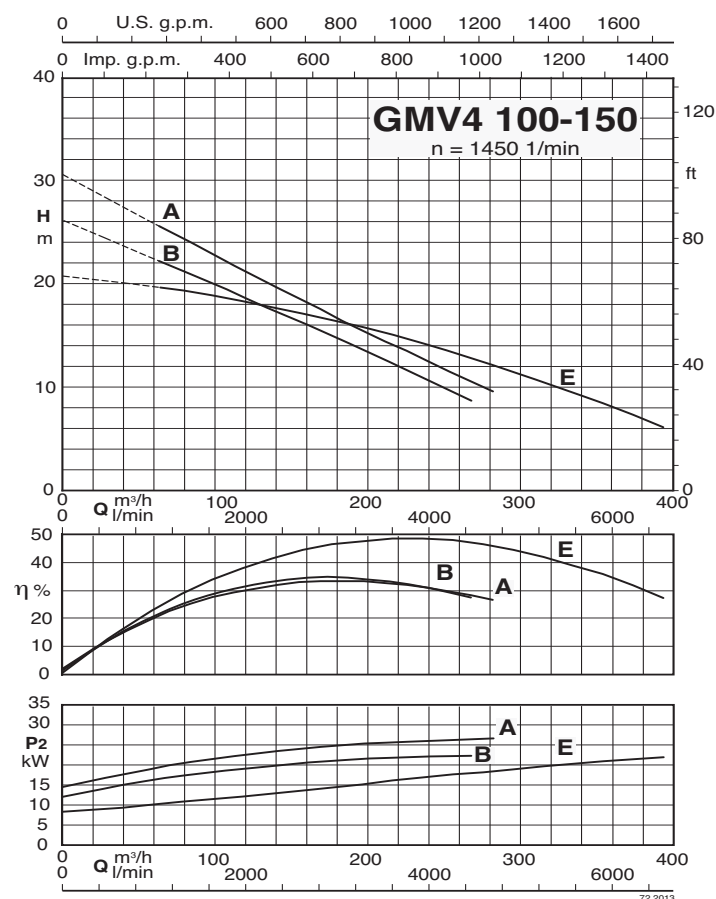
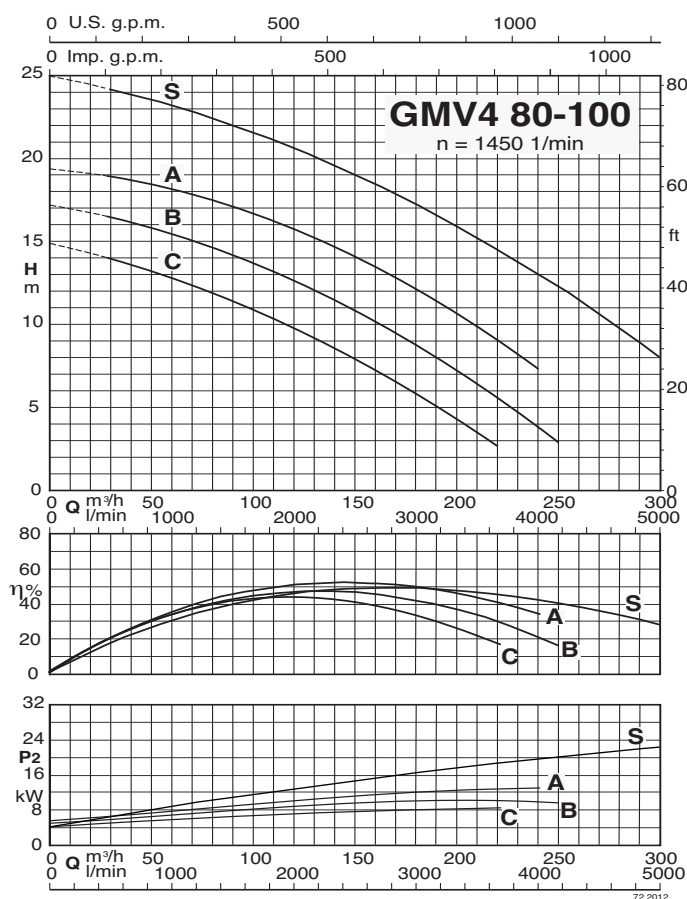
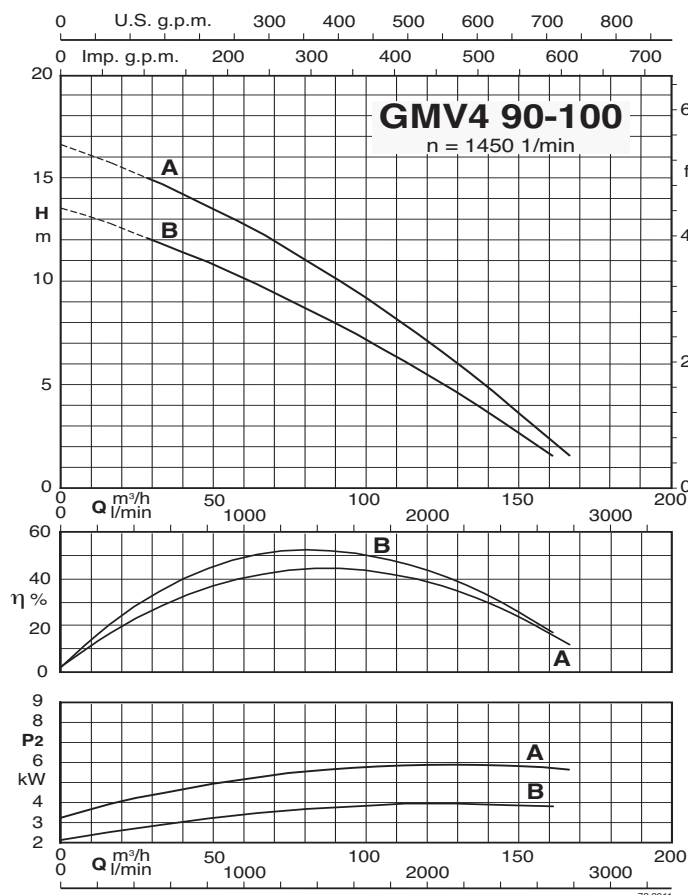
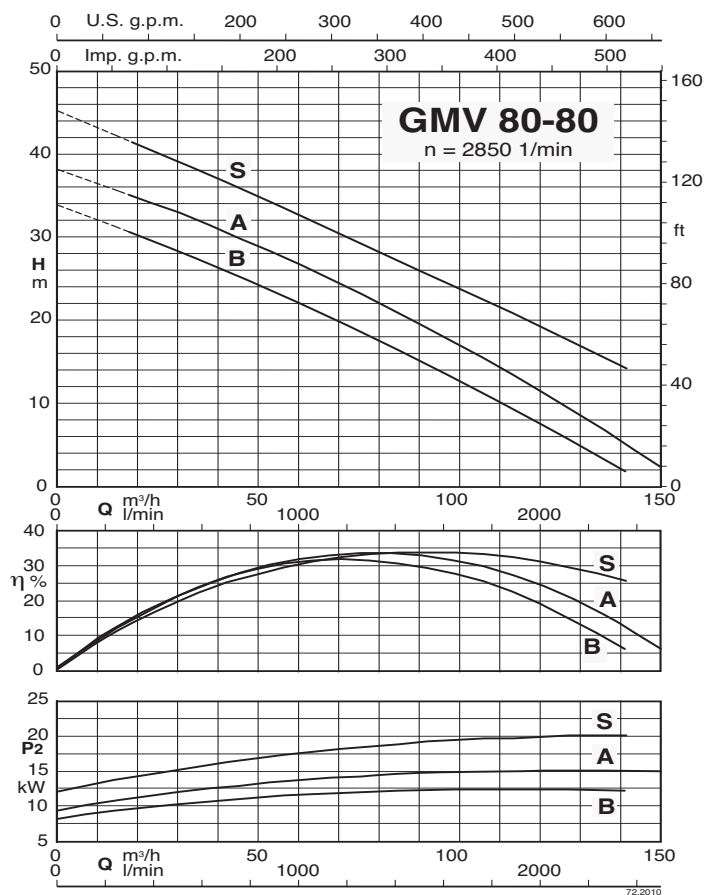
● Standard

✓ ATEX Eex Version on demand

### Characteristic curves



### Characteristic curves

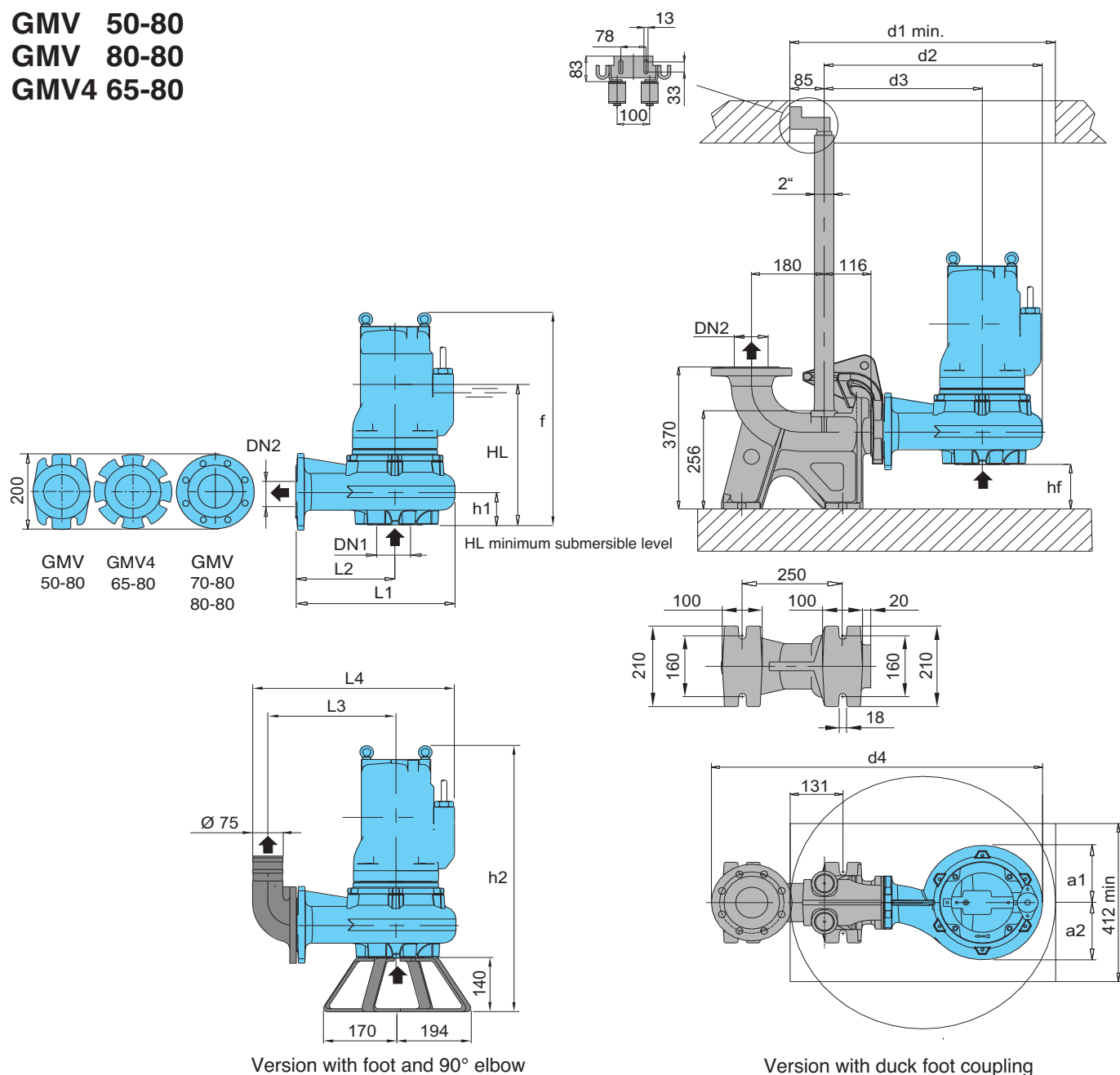


### Dimensions and weights

**GMV 50-80**

**GMV 80-80**

**GMV4 65-80**



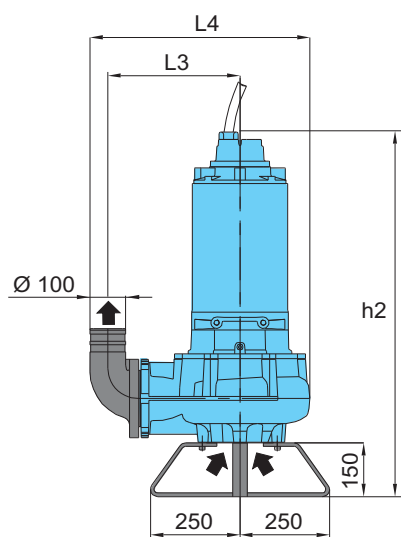
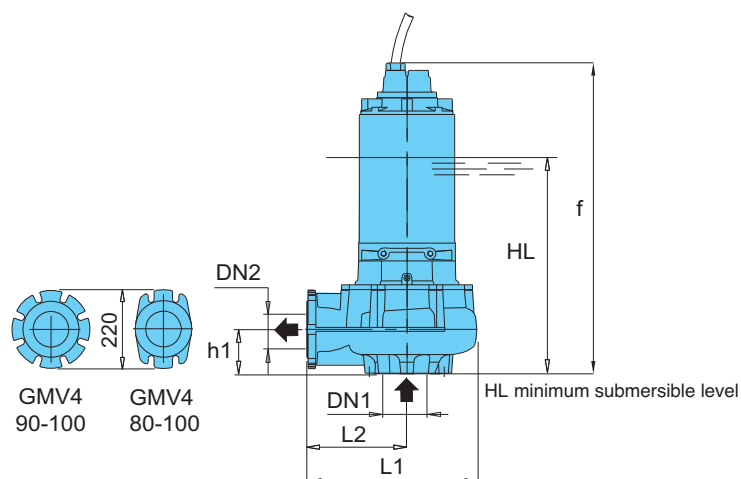
Version with foot and 90° elbow

Version with duck foot coupling

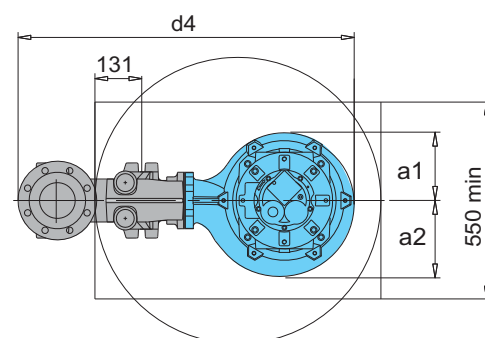
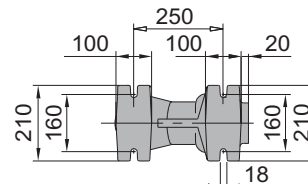
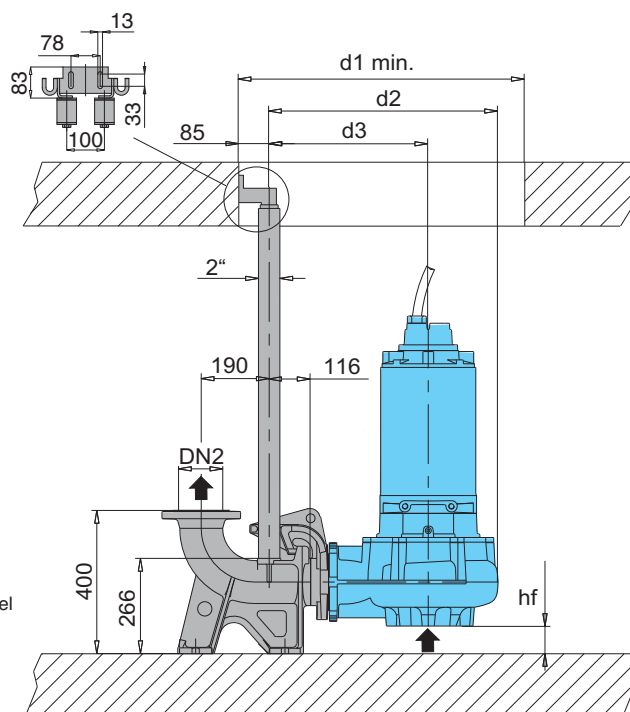
| TYPE         | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|--------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|              | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| GMV 50-80F   | 80                 | 80  | 487              | 330 | 116 | 84  | 627  | 149 | 149 | 660 | 541 | 392 | 821 | 395 | 246 | 380 | 570 | 52           |
| GMV 50-80E   |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV 50-80D   |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV 50-80C   |                    |     | 553              | 365 | 116 | 84  | 693  | 149 | 149 | 660 | 541 | 392 | 821 | 395 | 246 | 380 | 570 | 84           |
| GMV 50-80B   | 80                 | 80  | 836              | 516 | 122 | 78  | 986  | 164 | 164 | 800 | 611 | 428 | 891 | 445 | 262 | 334 | 555 | 190          |
| GMV 50-80A   |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV 70-80B/A | 80                 | 80  | 829              | 500 | 65  | 135 | 969  | 167 | 167 | 800 | 633 | 446 | 913 | 467 | 262 | 353 | 576 | 160          |
| GMV 70-80A/A |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV 80-80B   | 80                 | 80  | 863              | 548 | 60  | 140 | 1018 | 169 | 175 | 900 | 671 | 481 | 950 | 505 | 315 | 388 | 612 | 190          |
| GMV 80-80A   |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV 80-80S   | 80                 | 80  | 1328             | 586 | 127 | 142 | 1478 | 193 | 193 | 800 | 672 | 483 | 952 | 503 | 280 | 389 | 614 | 200          |
| GMV4 65-80D  | 80                 | 80  | 516              | 380 | 80  | 121 | 656  | 143 | 169 | 700 | 548 | 396 | 828 | 402 | 250 | 323 | 512 | 64           |
| GMV4 65-80C  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV4 65-80B  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| GMV4 65-80A  |                    |     | 582              | 400 | 80  | 121 | 722  | 143 | 169 | 700 | 548 | 396 | 828 | 402 | 250 | 323 | 512 | 79           |

### Dimensions and weights

#### GMV4 90-100 GMV4 80-100



Version with foot and 90° elbow

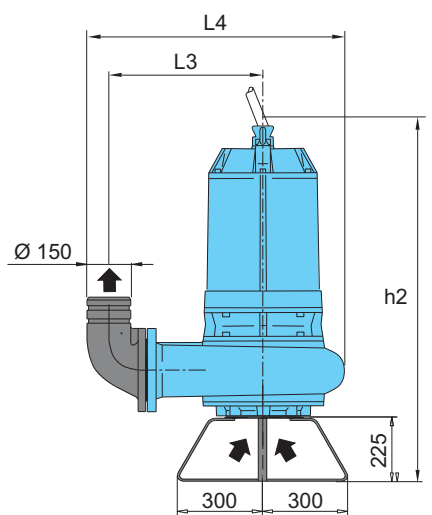
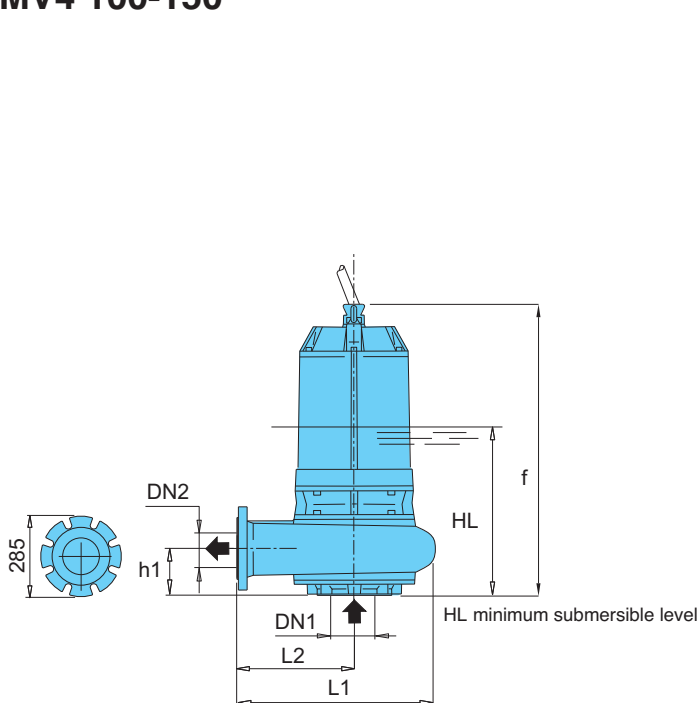


Version with duck foot coupling

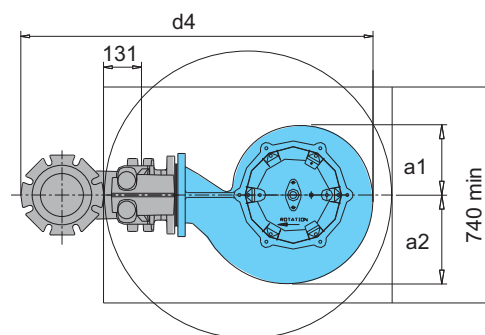
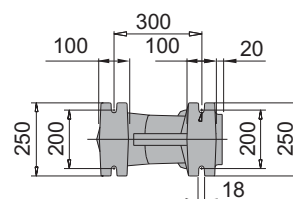
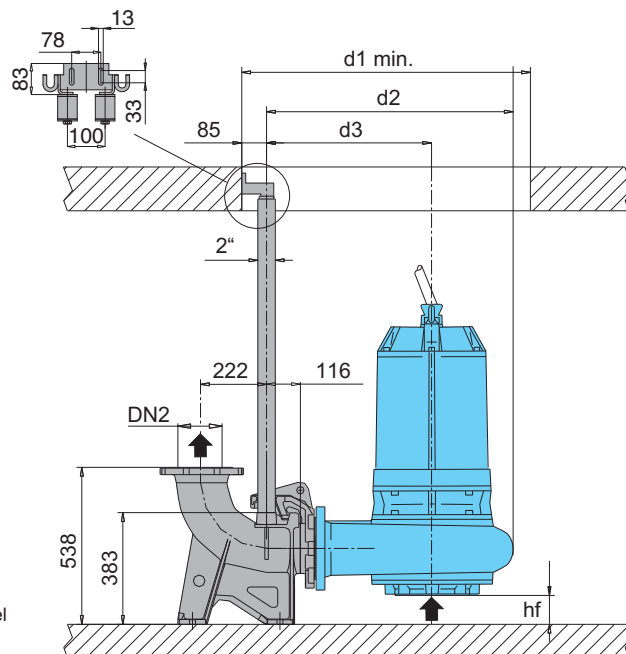
| TYPE         | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |    |     |      |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|--------------|--------------------|-----|------------------|-----|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|              | DN1                | DN2 | f                | HL  | hf | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |     |              |
| GMV4 90-100B | 125                | 100 | 829              | 490 | 89 | 111 | 979  | 180 | 180 | 800 | 633 | 443 | 933 | 468 | 277 | 367 | 607 | 170 |              |
| GMV4 90-100A |                    |     |                  |     |    |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMV4 80-100C | 125                | 100 | 921              | 570 | 54 | 147 | 1091 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 369 | 614 | 200 |              |
| GMV4 80-100A |                    |     |                  |     |    |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMV4 80-100S | 125                | 100 | 1343             | 670 | 54 | 146 | 1497 | 193 | 212 | 800 | 640 | 441 | 936 | 475 | 280 | 370 | 615 | 340 |              |

### Dimensions and weights

#### GMV4 100-150

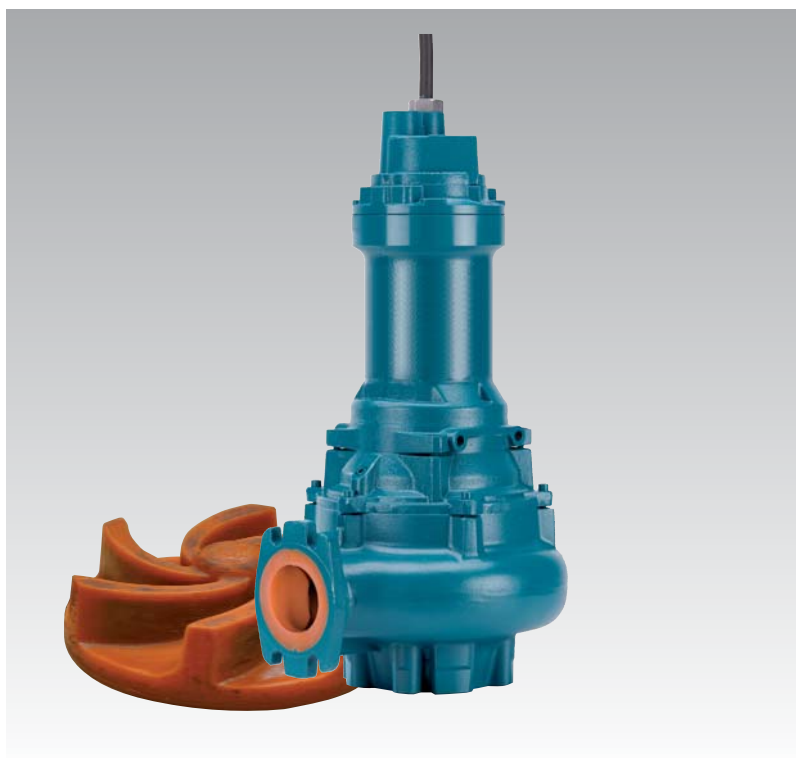


Version with foot and 90° elbow



Version with duck foot coupling

| TYPE          | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |      |     |     |      |     |     |     |     | Weight<br>kg |
|---------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|-----|-----|--------------|
|               | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1   | d2  | d3  | d4   | L1  | L2  | L3  | L4  |              |
| GMV4 100-150E | 150                | 150 | 1359             | 710 | 114 | 146 | 1581 | 193 | 223 | 850  | 675 | 469 | 1040 | 486 | 280 | 431 | 712 | 355          |
| GMV4 100-150B | 150                | 150 | 1014             | 592 | 135 | 143 | 1236 | 264 | 264 | 1000 | 880 | 616 | 1249 | 714 | 450 | 580 | 919 | 361          |
| GMV4 100-150A |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |     |     |              |



### Main materials

Pump casing: cast iron EN-GJL-250 with polyurethane coating  
 Impeller: Polyurethane with a stainless steel core  
 Motor casing: cast iron EN-GJL-250  
 Motor cover: cast iron EN-GJL-250  
 Shaft: stainless steel AISI 420B  
 Mechanical seal motor side: graphite/ceramic  
 Mechanical seal pump side: silicon carbide/silicon carbide

### Construction

Submersible pumps with vortex impeller  
 Impeller in Polyurethane with a stainless steel core - Pump casing in Cast iron EN-GJL-250, with polyurethane coating for parts subject to high wear.  
 Twin mechanical seal with oil chamber.  
 Delivery connection DN 80.

### Applications

The pumps are designed to suit applications in plants with an high sand presence, in marble work companies, in the ceramic industry, crystals machining or industrial processes handling abrasives liquids.  
 Solid passage diameter from 35 mm.

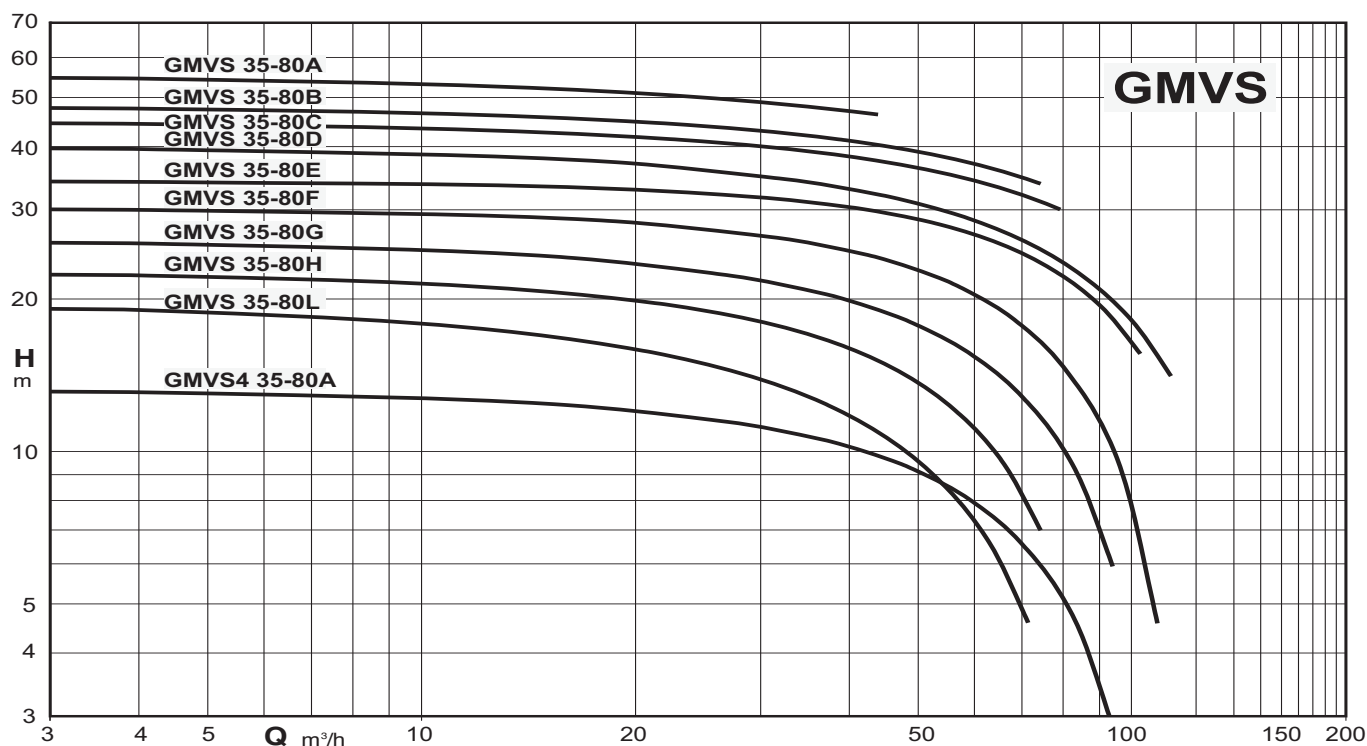
### Operating conditions

Liquid temperature up to 40 °C.  
 Maximum immersion depth: 20 m (with suitable cable length).  
 Continuous duty (with pump immersed at minimum level).

### Motor

2 or 4 poles induction, 50Hz  
 Three-phase version: 400/690V  $\pm$  10%  
 Insulation Class: H  
 Protection degree: IP 68  
 N° of starting x hour: max 15 with regular intervals  
 Cable: H07RN-F, length 10 m  
 Other models: contact our sale office

### Coverage chart



### Technical data

| TYPE         | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | ATEX<br>Eex |
|--------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|-------------|
| GMVS 35-80L  | 8,2                  | 15,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80H  | 8,2                  | 15,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80G  | 14,7                 | 26,8                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80F  | 14,7                 | 26,8                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80E  | 15,9                 | 30                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80D  | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80C  | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80B  | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS 35-80A  | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |
| GMVS4 35-80A | 7                    | 13,2                | 3~ 400/690V  | 1450   | Y/Δ      | 80       | 35                      | ●                    | ●                 |             |

P<sub>2</sub> Rated power output

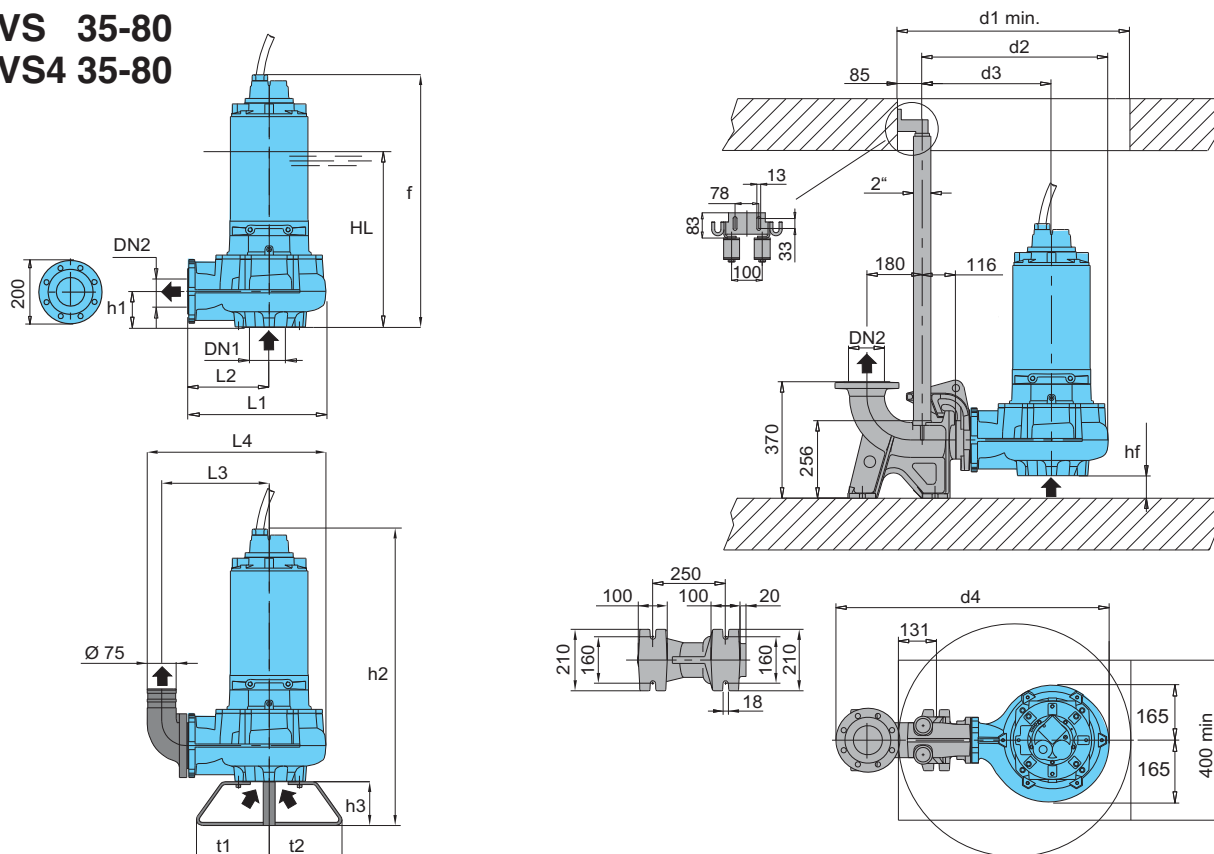
I<sub>N</sub> Rated current

● Standard

✓ ATEX Eex Version on demand

### Dimensions and weights

#### GMVS 35-80 GMVS4 35-80



| TYPE         | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|--------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|              | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | h3  | t1  | t2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| GMVS 35-80L  | 80                 | 80  | 796              | 468 | 122 | 78  | 936  | 140 | 200 | 200 | 800 | 593 | 408 | 873 | 427 | 242 | 314 | 537 | 150          |
| GMVS 35-80H  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80G  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80F  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80E  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80D  | 80                 | 80  | 867              | 514 | 124 | 100 | 1017 | 150 | 250 | 250 | 800 | 593 | 408 | 873 | 427 | 242 | 314 | 537 | 191          |
| GMVS 35-80C  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80B  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS 35-80A  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |              |
| GMVS4 35-80A | 80                 | 80  | 796              | 468 | 122 | 78  | 936  | 140 | 200 | 200 | 800 | 593 | 408 | 873 | 427 | 242 | 314 | 537 | 160          |



### Main materials

Pump casing: cast iron EN-GJL-250 - Impeller: cast iron EN-GJL-250+Ni  
 Motor casing, Motor cover: cast iron EN-GJL-250  
 Motor shaft: stainless steel AISI 420B  
 Lip seal made of nitrile up to 1,4 kW  
 Mechanical seal motor side: graphite/ceramic over 1,4 kW  
 Mechanical seal pump side: silicon carbide/silicon carbide

### Construction

Submersible pumps with single channel impeller.  
 Twin mechanical seal with oil chamber (lip-seal motor side up to 1,4 kW).  
 Delivery connection DN 50-65-80-100-150

### Applications

Suitable to pump slurry, sewage, waste water (non-corrosive).  
 In industrial and residential installations and drainag applications  
 Solid passage from 40 to 100mm

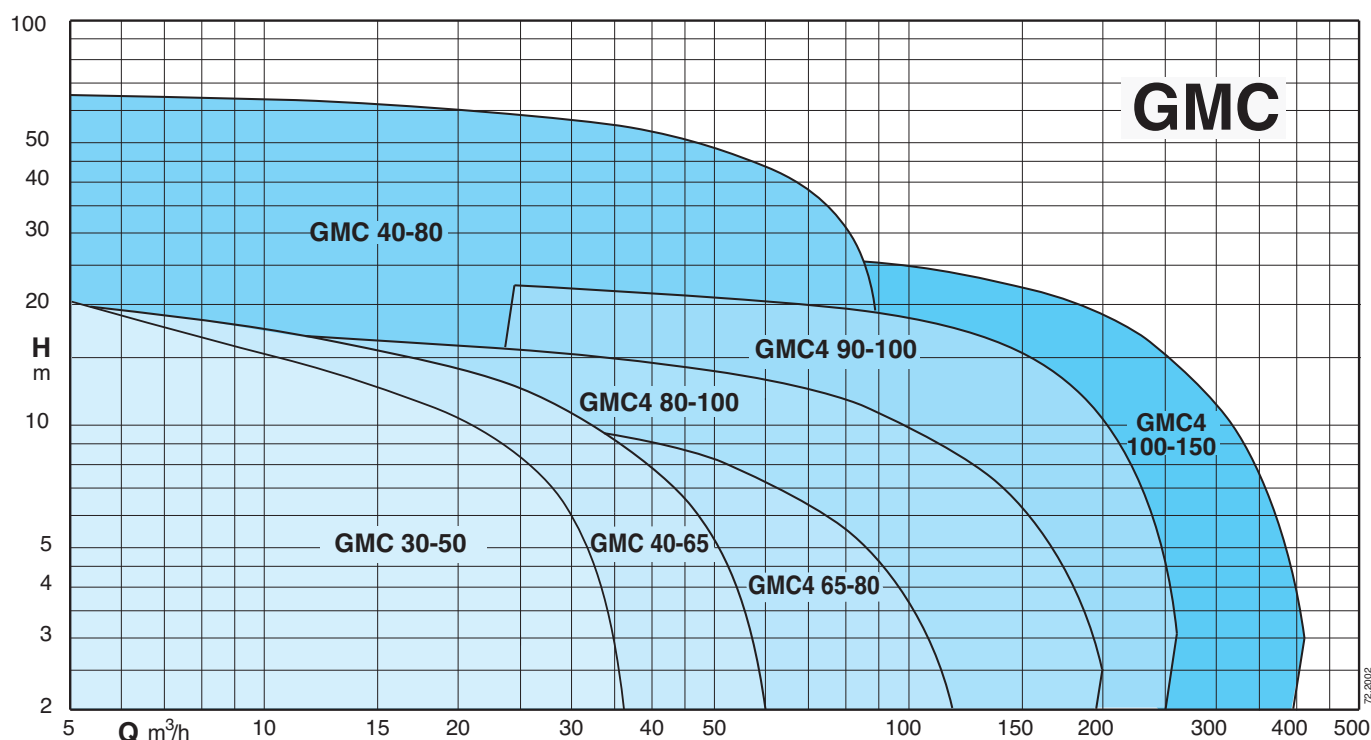
### Operating conditions

Liquid temperature up to 40 °C.  
 Maximum immersion depth: 20 m (with suitable cable length).  
 Continuous duty (with pump immersed at minimum level).

### Motor

2 or 4 poles induction, 50Hz  
 Single-phase version: 230V  $\pm$  10%, with float switch and built-in capacitor.  
 Three-phase version: 400V  $\pm$  10%, up to 3,2 kW  
 400/690V  $\pm$  10%, over 3,2 kW  
 Insulation class: H  
 Protection degree: IP 68  
 N° of starting x hour: max 15 with regular intervals  
 Cable: H07RN-F, length 10 m  
 Other models: contact our sale office

### Coverage chart



## Technical data

| TYPE            | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | ATEX<br>Eex |
|-----------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|-------------|
| GMCM 30-50B     | 1,1                  | 7,5                 | 1~ 230V      | 2850   | D.O.L.   | 50       | 30                      | ●                    | NO                |             |
| GMC 30-50B      | 1,4                  | 3                   | 3~ 400V      | 2850   | D.O.L.   | 50       | 30                      | NO                   | NO                |             |
| GMC 30-50A      | 1,4                  | 3                   | 3~ 400V      | 2850   | D.O.L.   | 50       | 30                      | NO                   | NO                |             |
| GMCM 40-65B     | 1,8                  | 10                  | 1~ 230V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓           |
| GMC 40-65B      | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓           |
| GMC 40-65A      | 2,9                  | 6                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓           |
| GMC 40-80D      | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 40                      | ●                    | ●                 | ✓           |
| GMC 40-80C      | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 40                      | ●                    | ●                 | ✓           |
| GMC 40-80B      | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 40                      | ●                    | ●                 | ✓           |
| GMC 40-80A      | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 40                      | ●                    | ●                 | ✓           |
|                 |                      |                     |              |        |          |          |                         |                      |                   |             |
| GMCM 65-80C     | 1,2                  | 8,5                 | 1~ 230V      | 1450   | D.O.L.   | 80       | 65                      | ●                    | NO                | ✓           |
| GMC4 65-80C     | 1,3                  | 3,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 65                      | NO                   | NO                | ✓           |
| GMC4 65-80B     | 2,3                  | 5                   | 3~ 400V      | 1450   | D.O.L.   | 80       | 65                      | NO                   | NO                | ✓           |
| GMC4 65-80A     | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 65                      | NO                   | NO                | ✓           |
| GMC4 75-80A     | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 75                      | NO                   | NO                | ✓           |
| GMC4 80-100C    | 3,8                  | 8                   | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMC4 80-100B    | 3,8                  | 8                   | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMC4 80-100A    | 5                    | 11                  | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓           |
| GMC4 90-100B    | 11,6                 | 23,2                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 90                      | ●                    | ●                 | ✓           |
| GMC4 90-100A    | 14,4                 | 29,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 90                      | ●                    | ●                 | ✓           |
| GMC4 100-150C   | 14,4                 | 29,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |
| GMC4 100-150B/A | 17,8                 | 32,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |
| GMC4 100-150A/A | 21                   | 43,1                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓           |

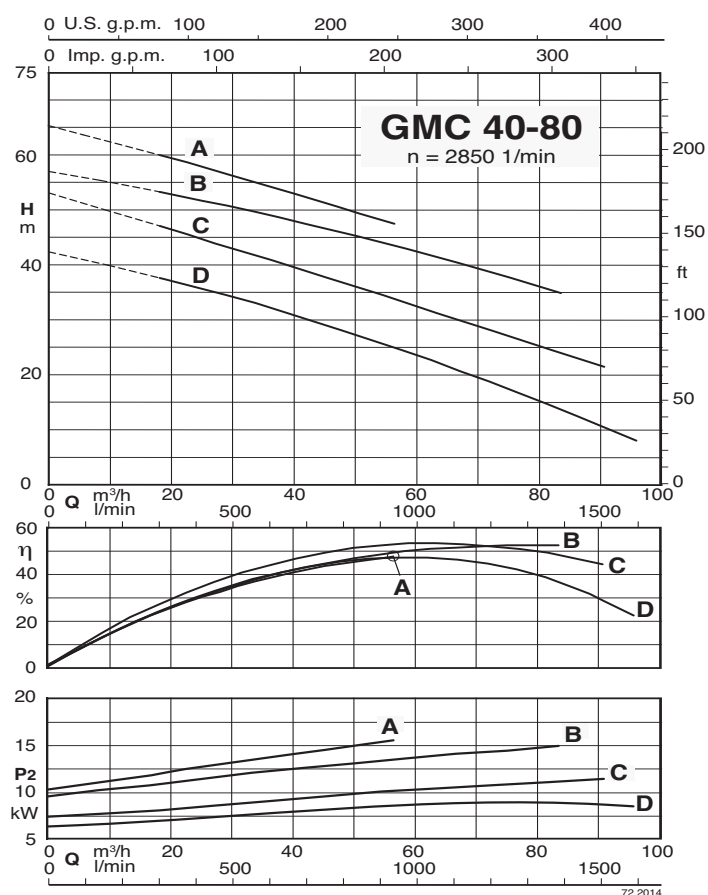
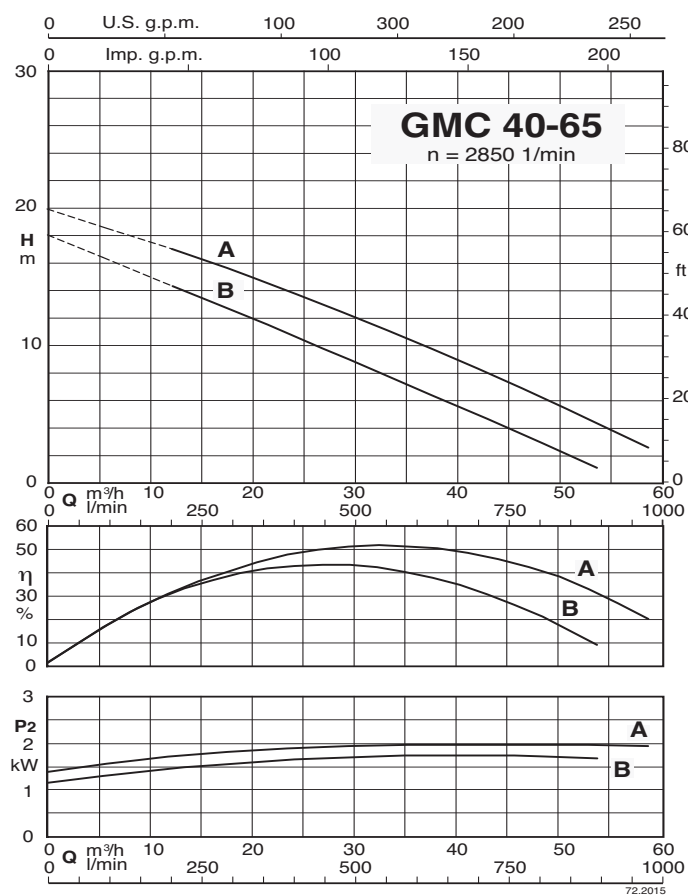
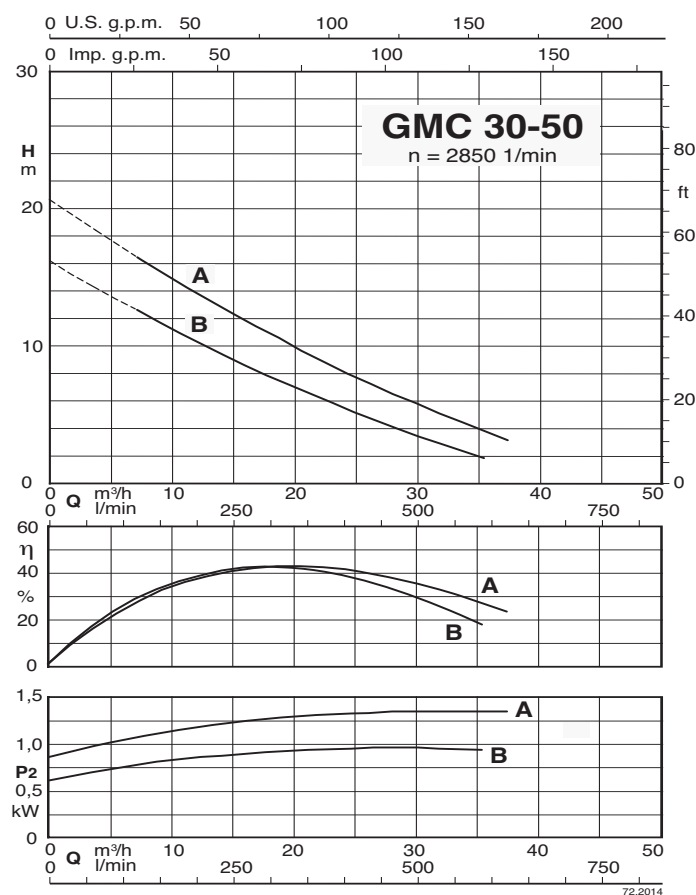
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

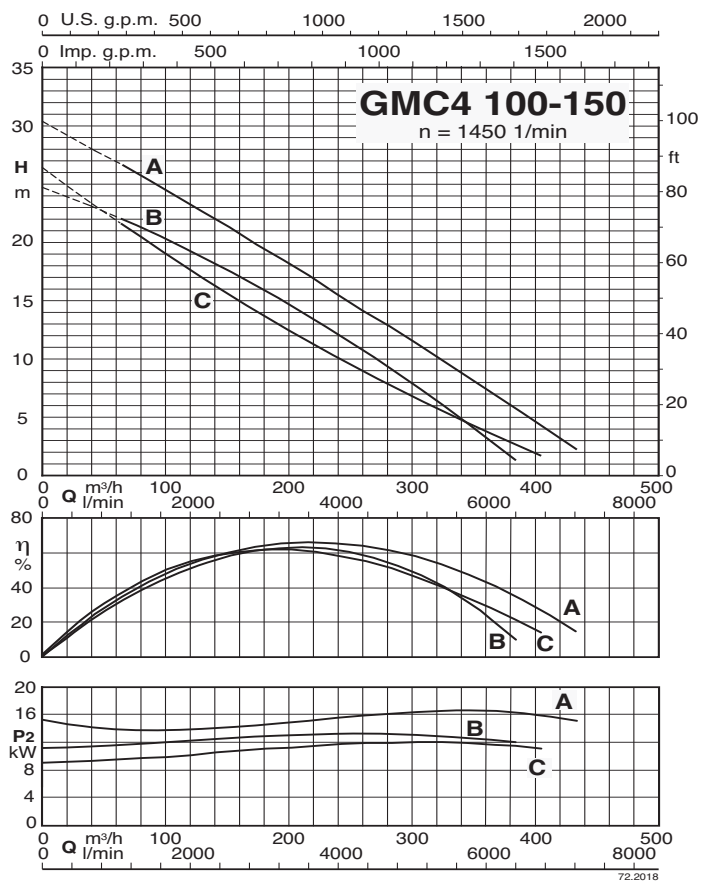
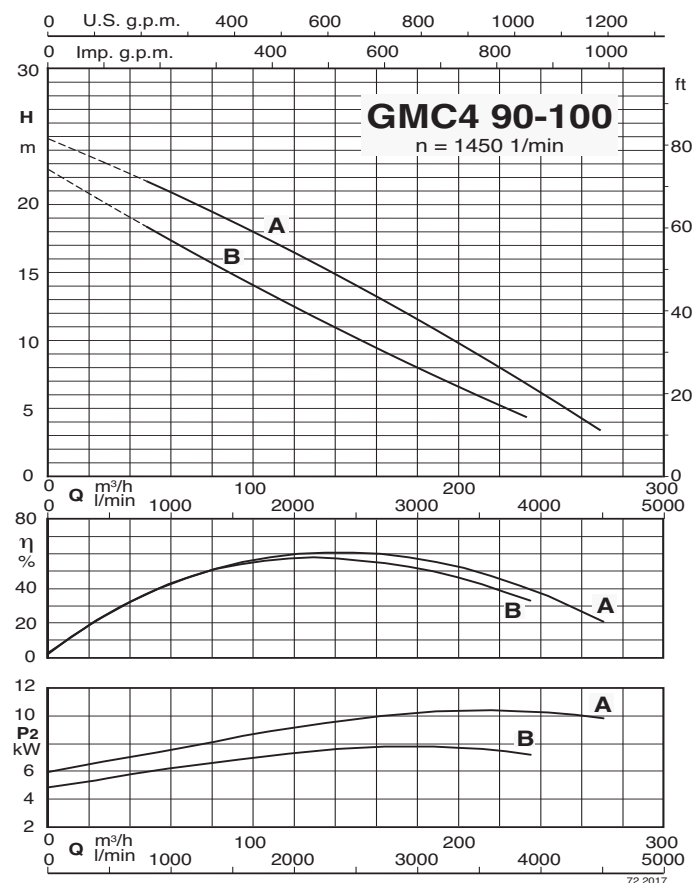
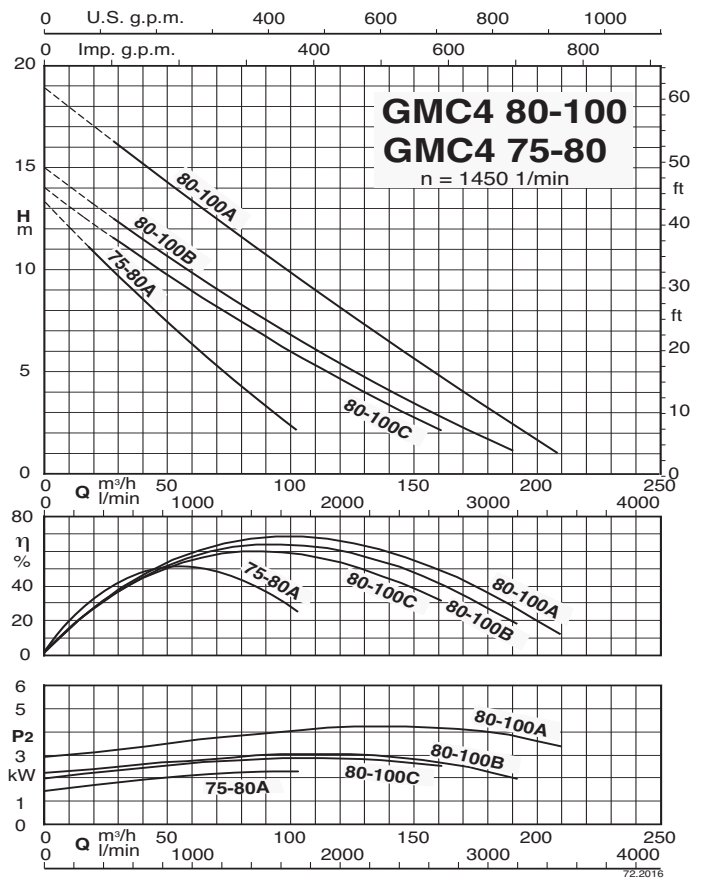
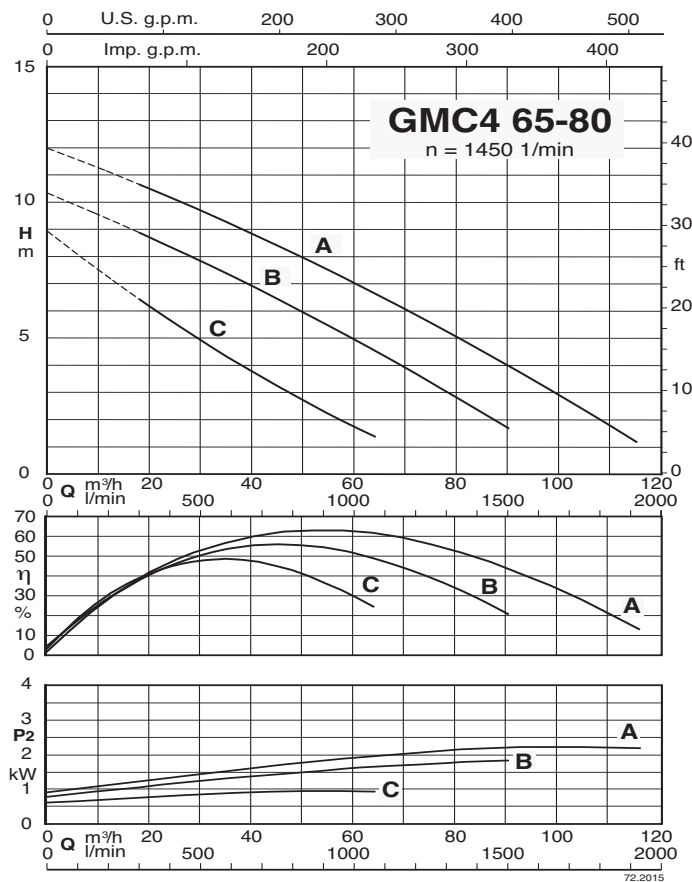
● Standard

✓ ATEX Eex Version on demand

## Characteristic curves

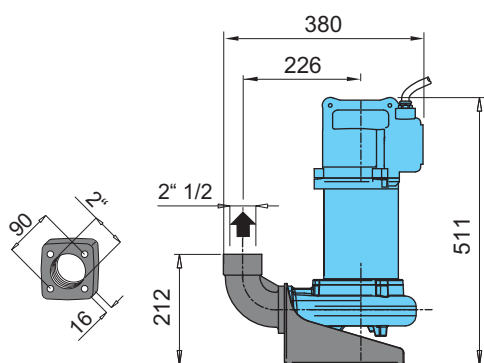
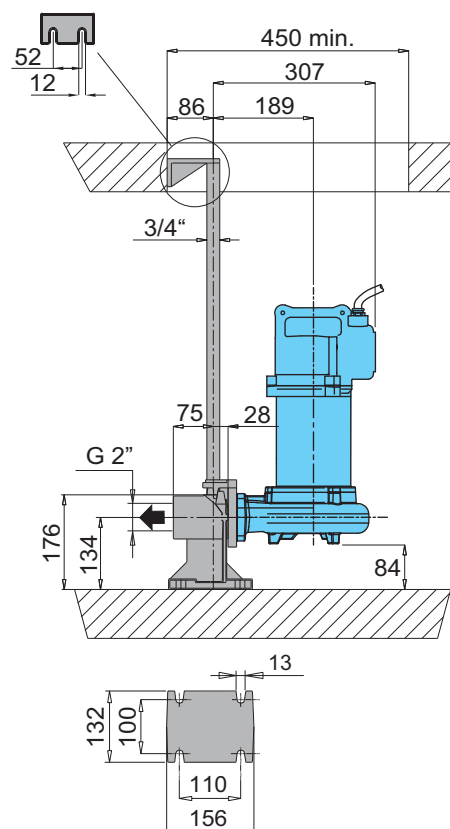
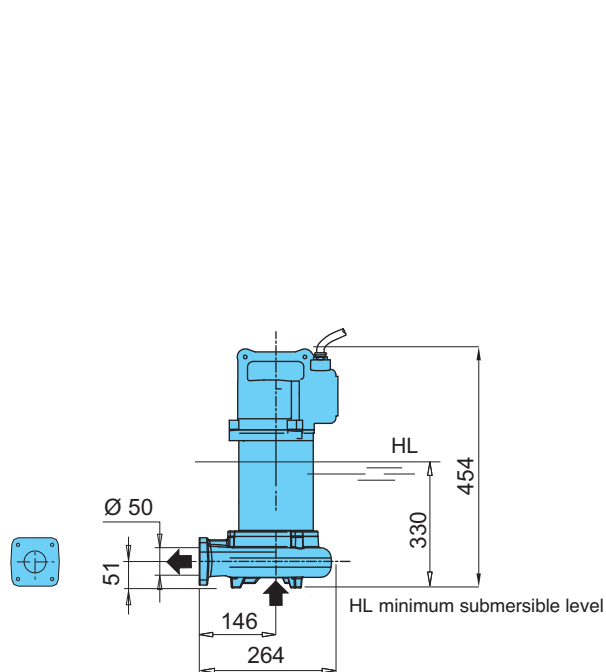


### Characteristic curves

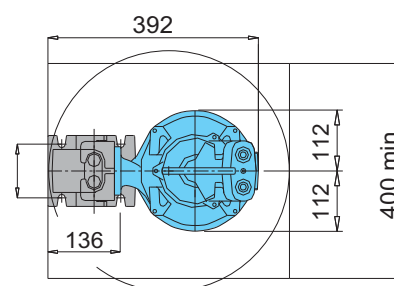


### Dimensions and weights

#### GMC 30-50



Version with foot and 90° elbow

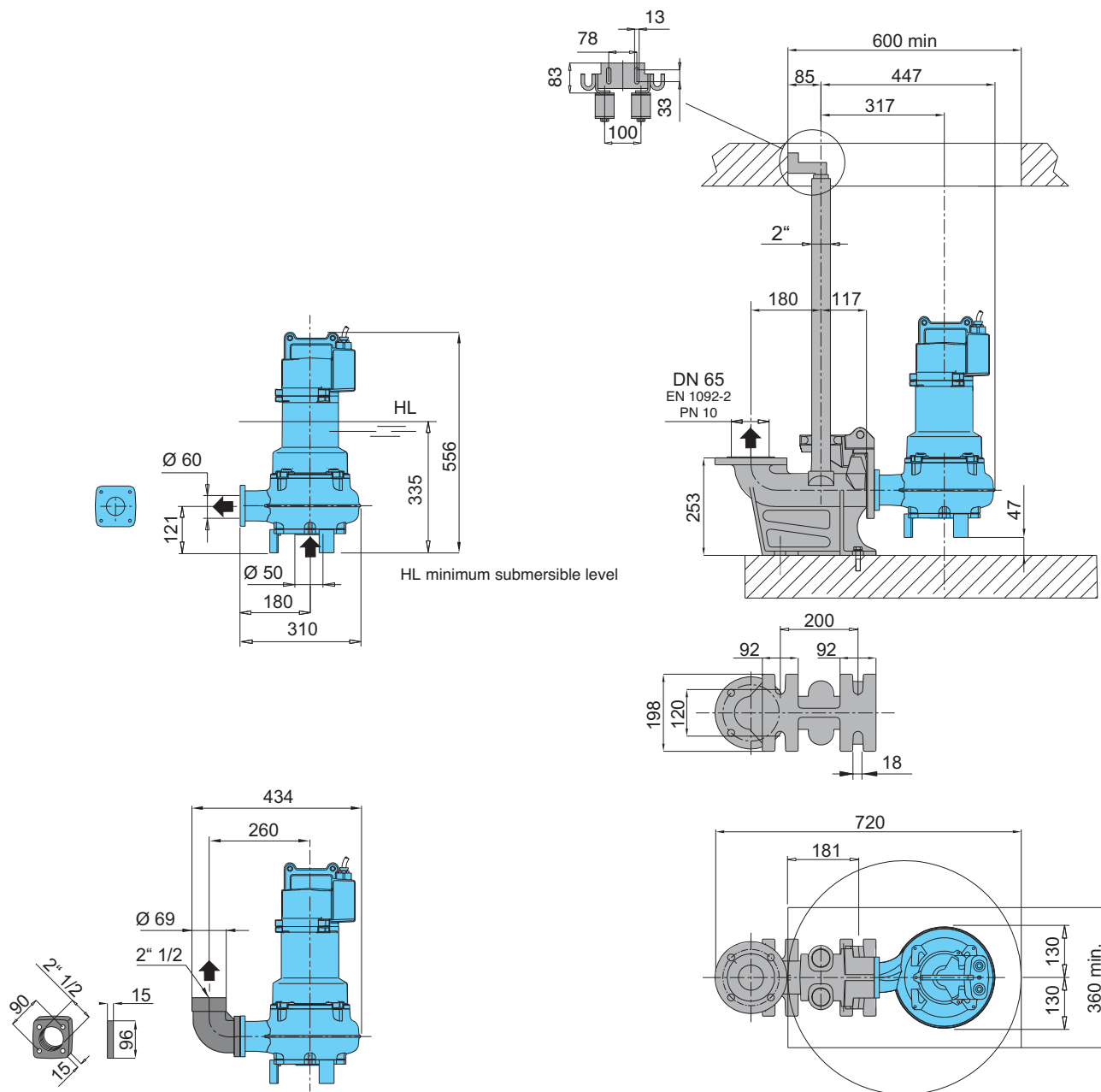


Version with duck foot coupling

| TYPE        | Weight<br>kg |
|-------------|--------------|
| GMCM 30-50B | 45           |
| GMC 30-50B  |              |
| GMC 30-50A  |              |

### Dimensions and weights

#### GMC 40-65



Version with foot and 90° elbow

Version with duck foot coupling

| TYPE        | Weight<br>kg |
|-------------|--------------|
| GMCM 40-65B | 45           |
| GMC 40-65B  |              |
| GMC 40-65A  |              |

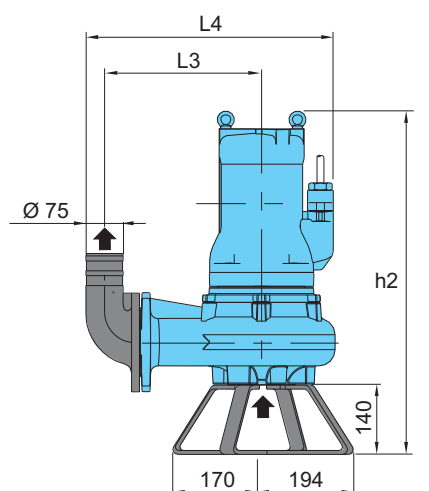
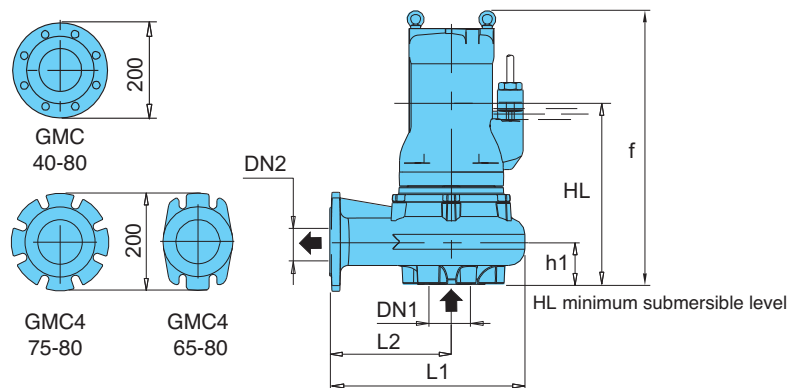
### Dimensions and weights

**GMC 40-80**

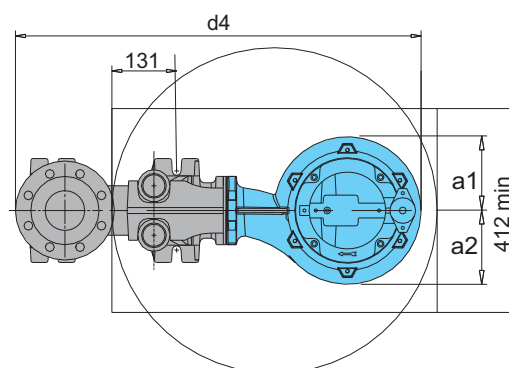
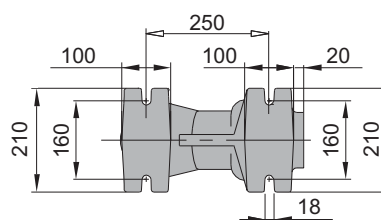
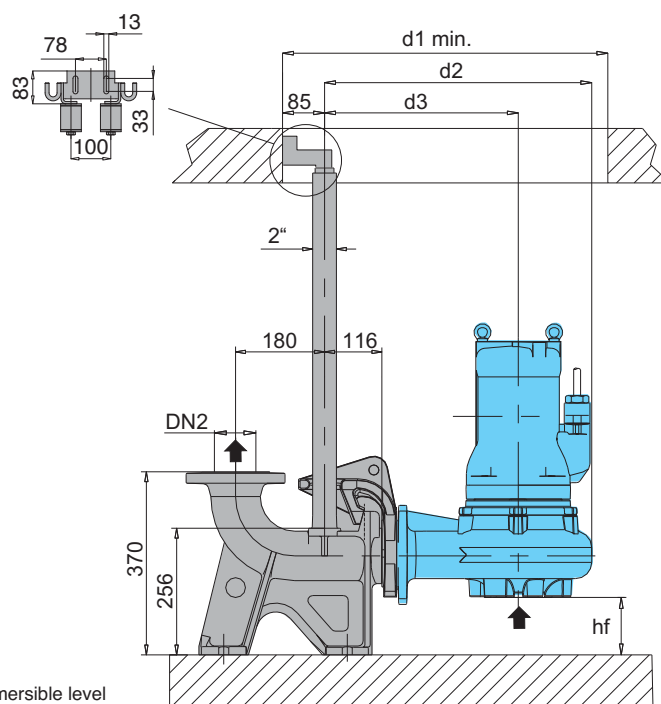
**GMC4M 65-80**

**GMC4 65-80**

**GMC4 75-80**



Version with foot and 90° elbow

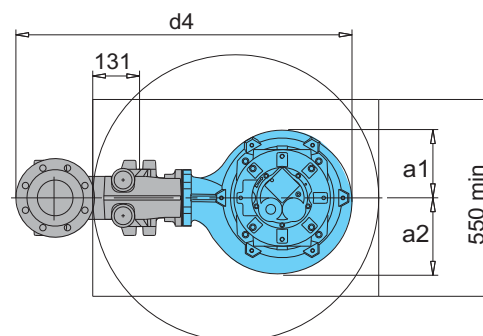
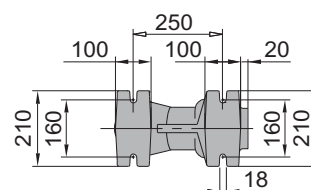
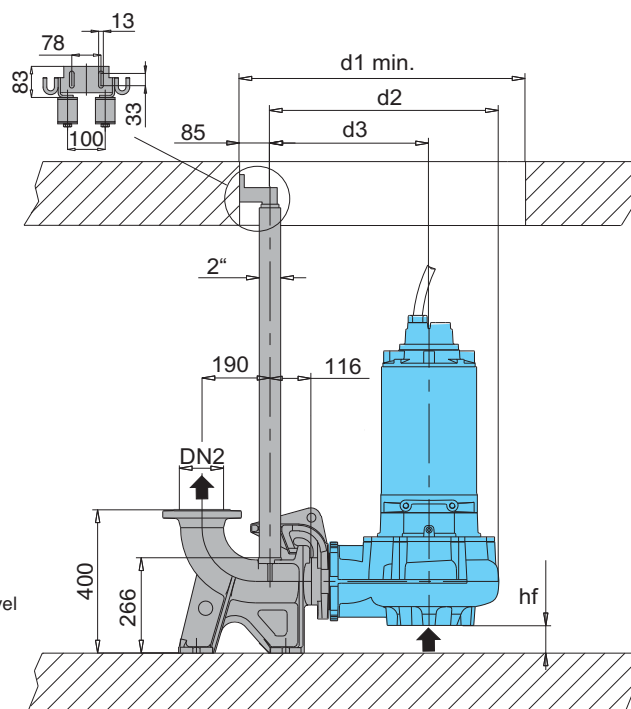
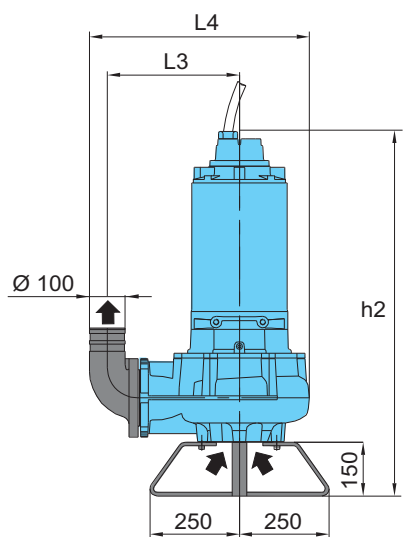
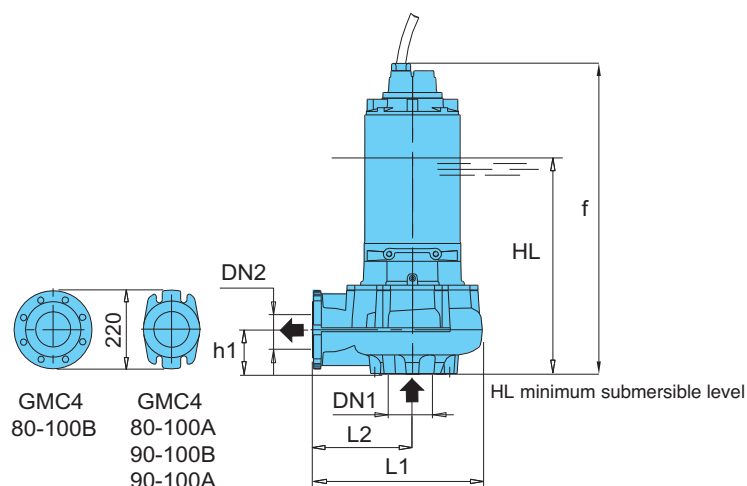


Version with duck foot coupling

| TYPE  |        | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |     |     |     |     | Weight<br>kg |     |
|-------|--------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|
|       |        | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  |              | L4  |
| GMC   | 40-80D | 80                 | 80  | 890              | 523 | 85  | 116 | 1040 | 168 | 168 | 750 | 603 | 416 | 883 | 437 | 250 | 323 | 547          | 190 |
| GMC   | 40-80C |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC   | 40-80B |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC   | 40-80A |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC4M | 65-80C | 80                 | 80  | 533              | 330 | 104 | 100 | 673  | 132 | 132 | 658 | 498 | 366 | 775 | 332 | 200 | 273 | 442          | 49  |
| GMC4  | 65-80C |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC4  | 65-80B |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC4  | 65-80A |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |
| GMC4  | 75-80A | 80                 | 80  | 516              | 380 | 80  | 121 | 656  | 143 | 169 | 700 | 548 | 396 | 828 | 402 | 250 | 323 | 512          | 66  |

### Dimensions and weights

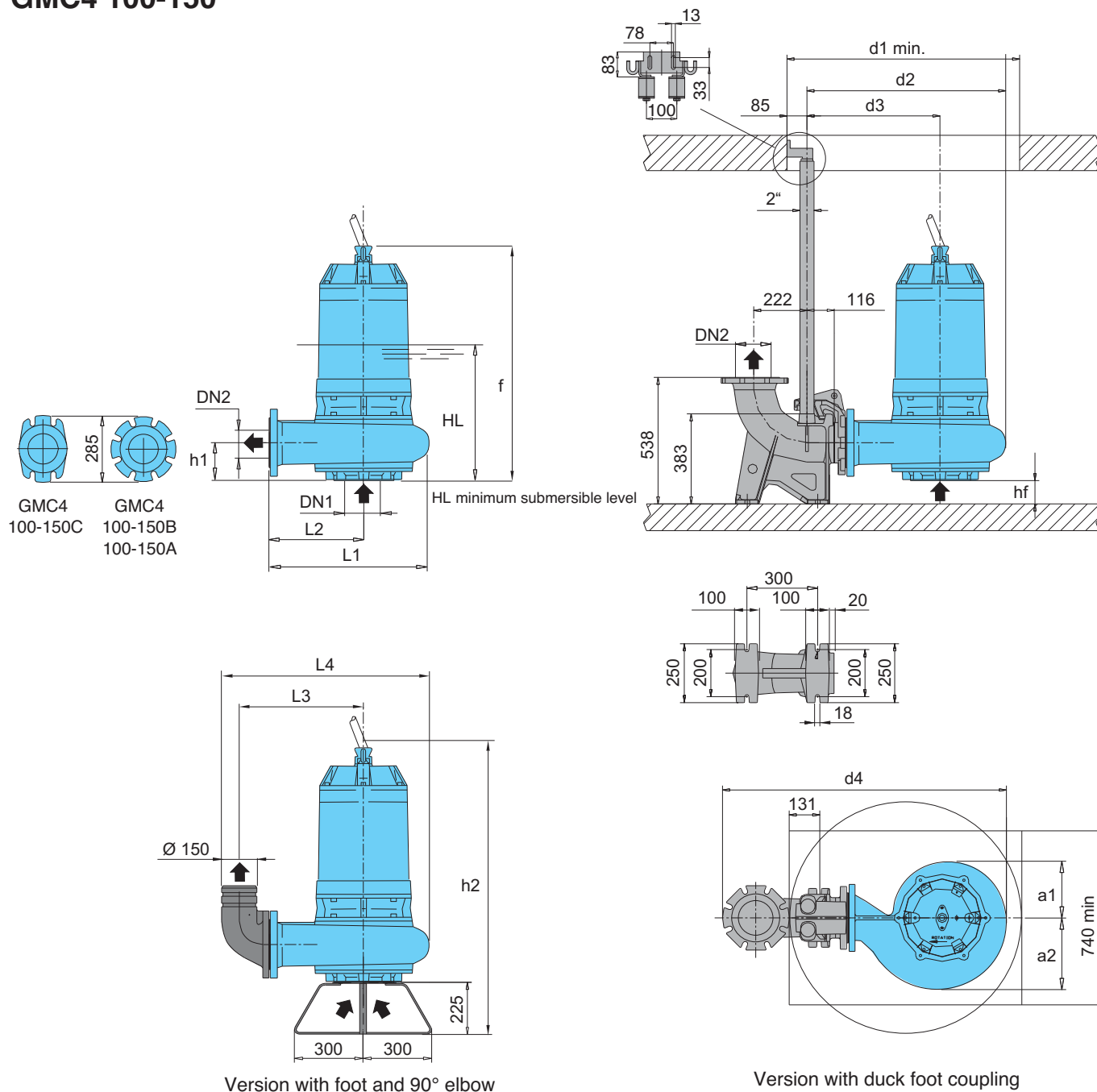
#### GMC4 80-100 GMC4 90-100



| TYPE                         | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |    |     |      |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|------------------------------|--------------------|-----|------------------|-----|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|                              | DN1                | DN2 | f                | HL  | hf | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |     |              |
| GMC4 80-100C<br>GMC4 80-100B | 125                | 100 | 597              | 420 | 62 | 138 | 747  | 180 | 231 | 850 | 673 | 466 | 973 | 507 | 300 | 390 | 647 | 117 |              |
| GMC4 80-100A                 | 125                | 100 | 852              | 520 | 54 | 147 | 1002 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 369 | 614 | 161 |              |
| GMC4 90-100B<br>GMC4 90-100A | 125                | 100 | 920              | 570 | 54 | 147 | 1070 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 369 | 614 | 204 |              |

### Dimensions and weights

#### GMC4 100-150



| TYPE            | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |      |     |     |     |     | Weight<br>kg |
|-----------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|--------------|
|                 | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4   | L1  | L2  | L3  | L4  |              |
| GMC4 100-150C   | 150                | 150 | 933              | 580 | 113 | 147 | 1155 | 191 | 223 | 850 | 673 | 467 | 1038 | 507 | 301 | 431 | 712 | 218          |
| GMC4 100-150B/A | 150                | 150 | 1354             | 660 | 80  | 180 | 1494 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 875 | 375          |
| GMC4 100-150A/A |                    |     | 1410             | 760 |     |     | 1632 |     |     |     |     |     |      |     |     |     |     | 450          |



### Main materials

Pump casing: cast iron EN-GJL-250  
 Impeller: cast iron EN-GJL-250+Ni  
 Motor casing: cast iron EN-GJL-250  
 Motor cover: cast iron EN-GJL-250  
 Shaft: stainless steel AISI 420B  
 Mechanical seal motor side: graphite/ceramic  
 Mechanical seal pump side: silicon carbide/silicon carbide

### Construction

Submersible pumps with channels impeller.  
 Twin mechanical seal with oil chamber.  
 Delivery connection DN 65-80-100-150-200-250-300.

### Applications

Suitable to pump slurry, sewage and waste water (non-corrosive) with solids in suspension.  
 For industrial and residential installations and general drainage applications.  
 They are ideal for applications with smaller solids.  
 Solid passage from 30 to 140 mm

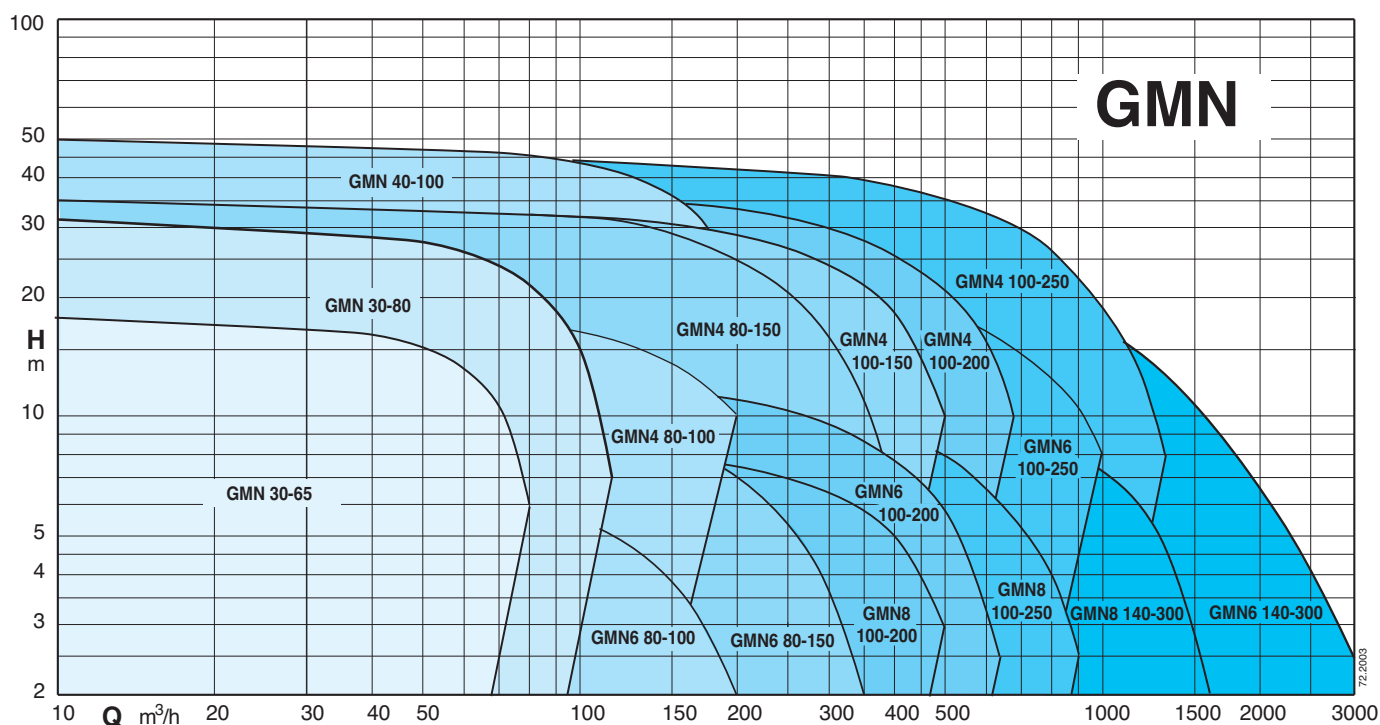
### Operating conditions

Liquid temperature up to 40 °C.  
 Maximum immersion depth: 20 m (with suitable cable length).  
 Continuous duty (with pump immersed at minimum level).

### Motor

2-4-6 or 8 poles induction, 50Hz  
 Three-phase version: 400V  $\pm$  10%, up to 3,2 kW  
 400/690V  $\pm$  10%, over 3,2 kW  
 Insulation class: H  
 Protection degree: IP 68  
 N° of starting x hour: max 15 with regular intervals  
 Cable: H07RN-F, length 10 m  
 Other models: contact our sale office

### Coverage chart



### Technical data

| TYPE            | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | <br>ATEX<br>Eex |
|-----------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|----------------------------------------------------------------------------------------------------|
| GMN 30-65B      | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| GMN 30-65A      | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| GMN 30-80B      | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| GMN 30-80A      | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| GMN 30-80S      | 8,2                  | 15,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 |                                                                                                    |
| GMN 40-100D     | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| GMN 40-100C     | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| GMN 40-100B     | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| GMN 40-100S     | 22,4                 | 40,1                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 |                                                                                                    |
|                 |                      |                     |              |        |          |          |                         |                      |                   |                                                                                                    |
| GMN4 80-100D    | 4,6                  | 9,5                 | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| GMN4 80-100C    | 7,1                  | 13,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| GMN4 80-100A    | 11,6                 | 23,2                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓                                                                                                  |
|                 |                      |                     |              |        |          |          |                         |                      |                   |                                                                                                    |
| GMN6 80-100B    | 2,3                  | 6                   | 3~ 400V      | 950    | D.O.L.   | 100      | 80                      | NO                   | NO                | ✓                                                                                                  |
| GMN6 80-100A    | 2,8                  | 6,6                 | 3~ 400V      | 950    | D.O.L.   | 100      | 80                      | NO                   | NO                | ✓                                                                                                  |
| GMN6 80-150B    | 5,2                  | 12,5                | 3~ 400/690V  | 950    | Y/Δ      | 150      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| GMN6 80-150A    | 6,4                  | 16                  | 3~ 400/690V  | 950    | Y/Δ      | 150      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| GMN6 100-150B/A | 16                   | 34,2                | 3~ 400/690V  | 950    | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-150A/A | 16                   | 34,2                | 3~ 400/690V  | 950    | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
|                 |                      |                     |              |        |          |          |                         |                      |                   |                                                                                                    |
| GMN4 80-150C/A  | 27                   | 52,2                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 80                      | ●                    | ●                 |                                                                                                    |
| GMN4 80-150B/A  | 35,7                 | 65,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 80                      | ●                    | ●                 |                                                                                                    |
| GMN4 100-150G   | 20,7                 | 41,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-150F   | 25,4                 | 48,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-150E/A | 26,1                 | 51                  | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-150D/A | 35,7                 | 65,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-150S/A | 35,7                 | 65,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-200C   | 46                   | 83,5                | 3~ 400/690V  | 1450   | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-200B   | 52,1                 | 92,5                | 3~ 400/690V  | 1450   | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-200A   | 52,1                 | 92,5                | 3~ 400/690V  | 1450   | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-250D   | 77,2                 | 135                 | 3~ 400/690V  | 1450   | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-250C   | 77,2                 | 135                 | 3~ 400/690V  | 1450   | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-250B   | 79,5                 | 135                 | 3~ 400/690V  | 1450   | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN4 100-250A   | 79,5                 | 135                 | 3~ 400/690V  | 1450   | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
|                 |                      |                     |              |        |          |          |                         |                      |                   |                                                                                                    |
| GMN6 100-200F/A | 16                   | 34,2                | 3~ 400/690V  | 950    | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-200E/A | 16                   | 34,2                | 3~ 400/690V  | 950    | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-200D/A | 16                   | 34,2                | 3~ 400/690V  | 950    | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-250D   | 23,4                 | 45,5                | 3~ 400/690V  | 950    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-250C   | 29                   | 57                  | 3~ 400/690V  | 950    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-250B   | 40                   | 80                  | 3~ 400/690V  | 950    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 100-250A   | 40                   | 80                  | 3~ 400/690V  | 950    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN6 140-300D   | 32                   | 60,5                | 3~ 400/690V  | 950    | Y/Δ      | 300      | 140                     | ●                    | ●                 |                                                                                                    |
| GMN6 140-300C   | 40                   | 80                  | 3~ 400/690V  | 950    | Y/Δ      | 300      | 140                     | ●                    | ●                 |                                                                                                    |
| GMN6 140-300B   | 55,8                 | 108                 | 3~ 400/690V  | 950    | Y/Δ      | 300      | 140                     | ●                    | ●                 |                                                                                                    |
| GMN6 140-300A   | 55,8                 | 108                 | 3~ 400/690V  | 950    | Y/Δ      | 300      | 140                     | ●                    | ●                 |                                                                                                    |
|                 |                      |                     |              |        |          |          |                         |                      |                   |                                                                                                    |
| GMN8 100-200B/B | 9,6                  | 20                  | 3~ 400/690V  | 750    | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN8 100-200A   | 9,6                  | 20                  | 3~ 400/690V  | 750    | Y/Δ      | 200      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN8 100-250B/A | 13,7                 | 29,5                | 3~ 400/690V  | 750    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN8 100-250A/B | 21,8                 | 47,5                | 3~ 400/690V  | 750    | Y/Δ      | 250      | 100                     | ●                    | ●                 |                                                                                                    |
| GMN8 140-300A   | 26,7                 | 59                  | 3~ 400/690V  | 750    | Y/Δ      | 300      | 140                     | ●                    | ●                 |                                                                                                    |

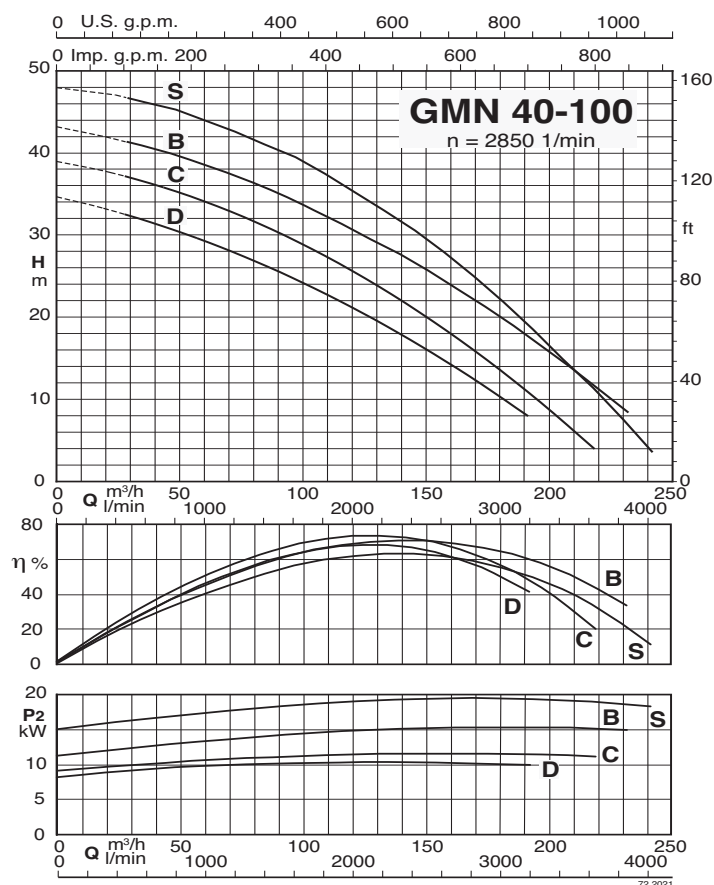
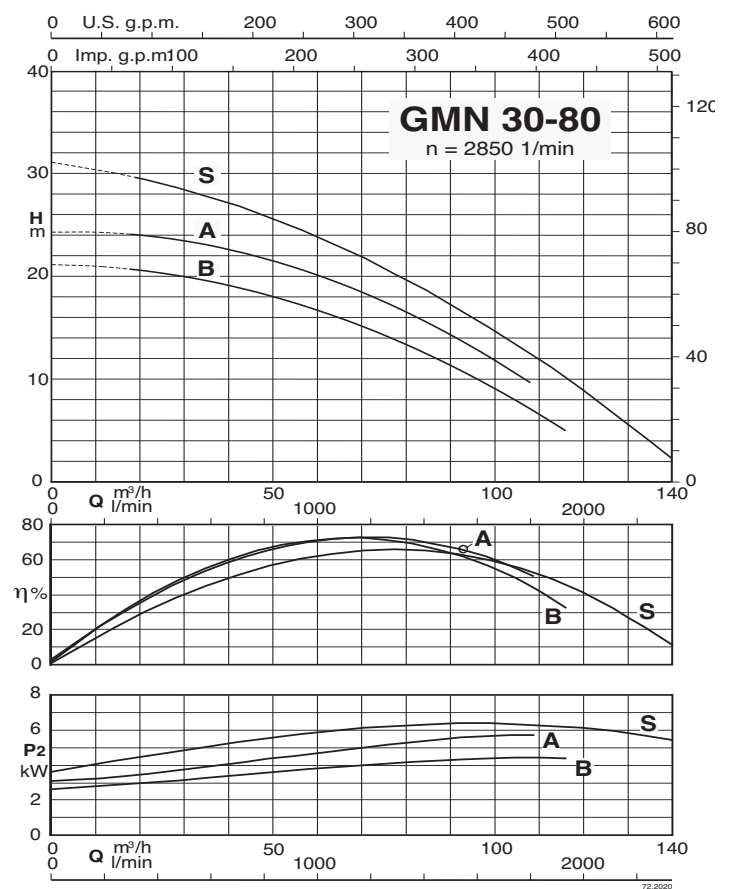
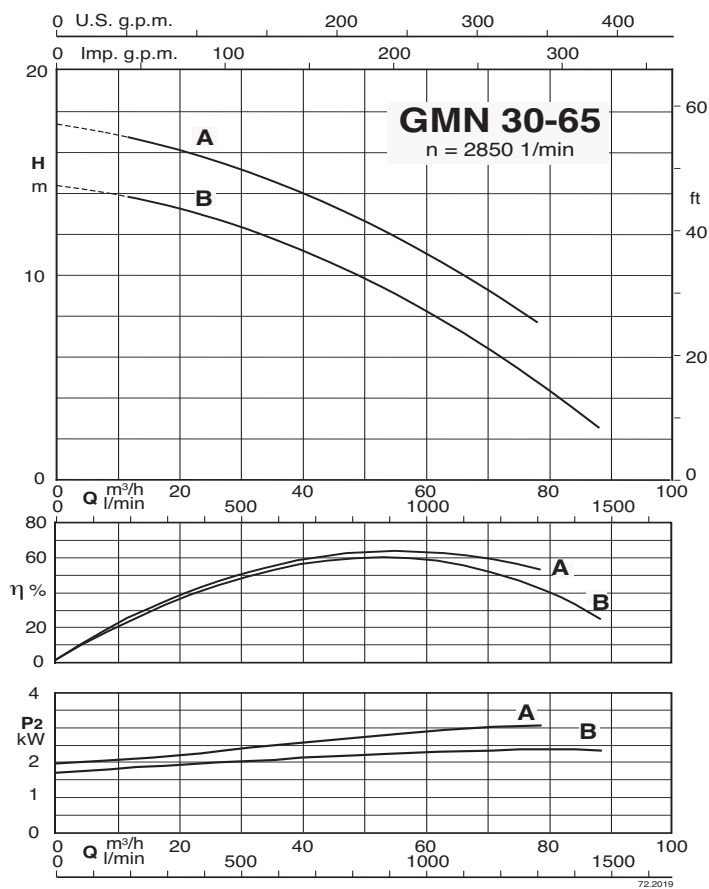
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

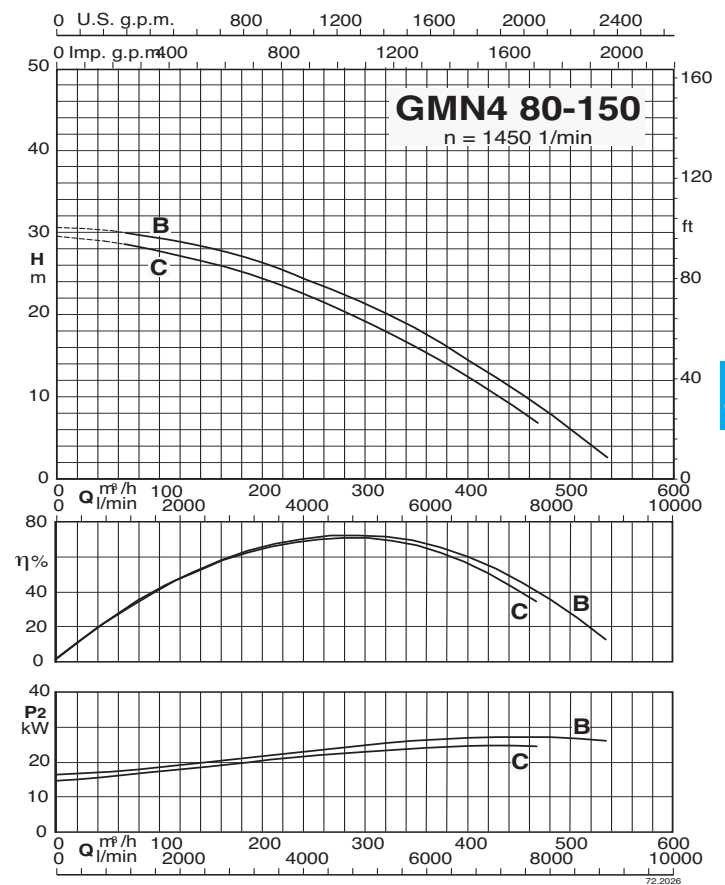
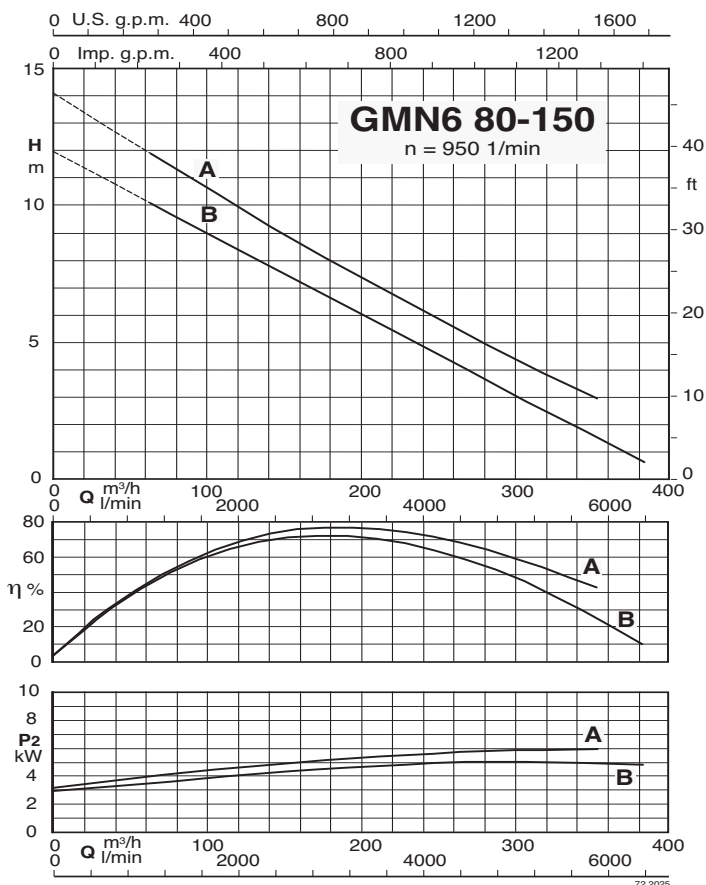
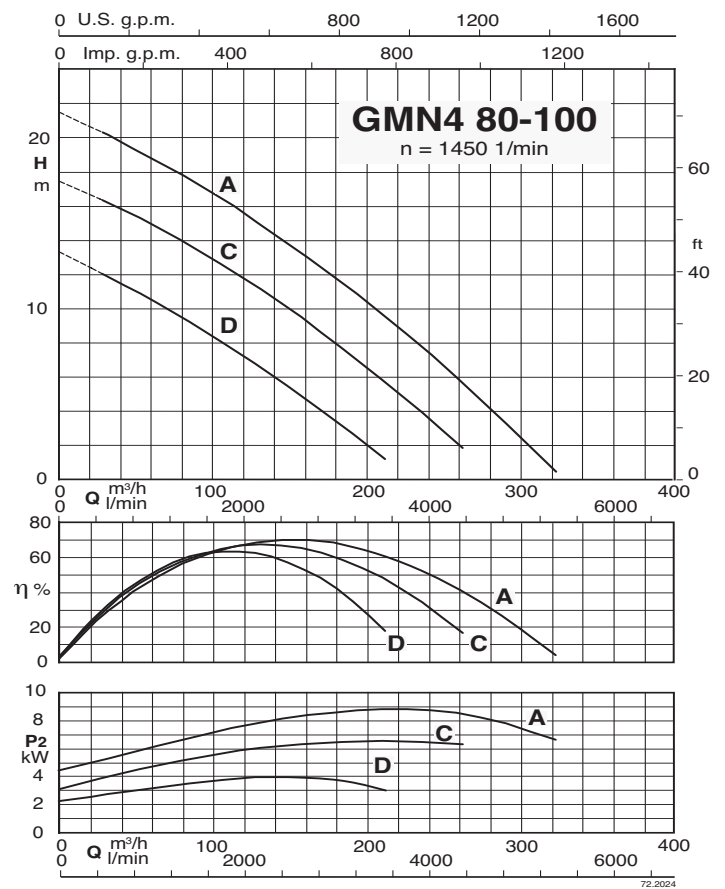
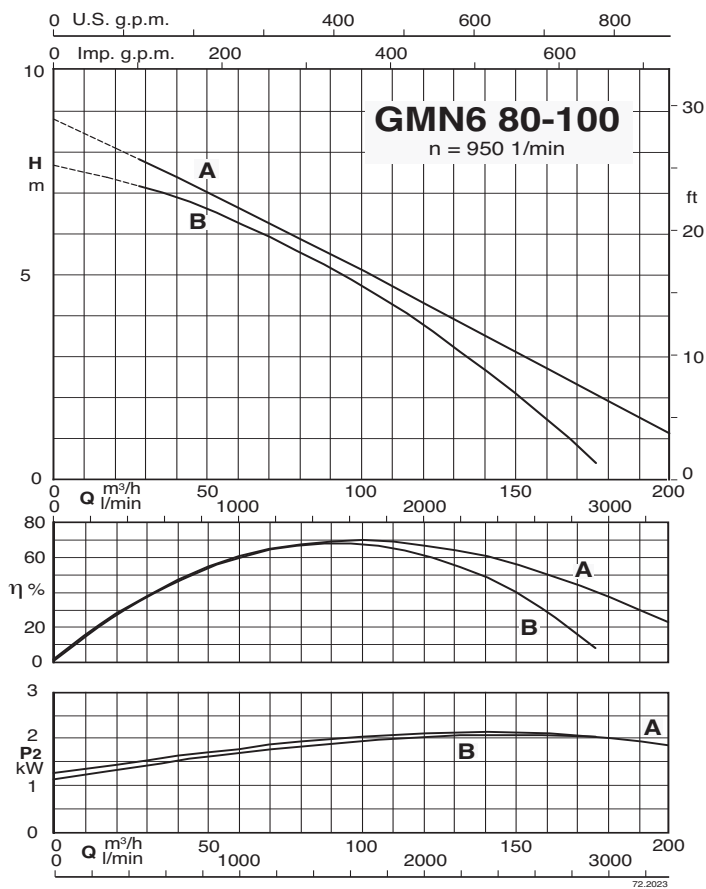
● Standard

✓ ATEX Eex Version on demand

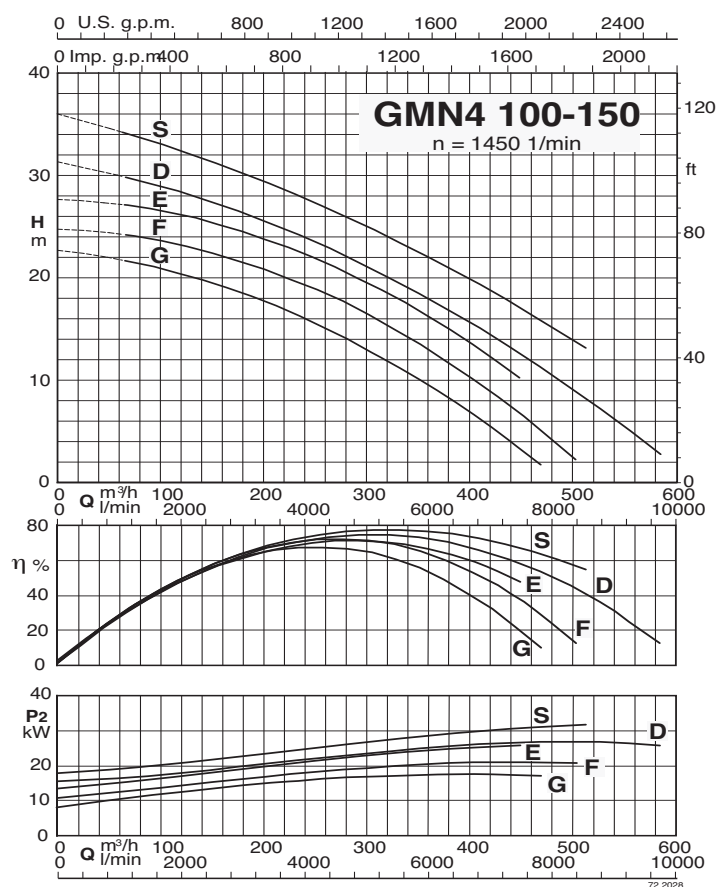
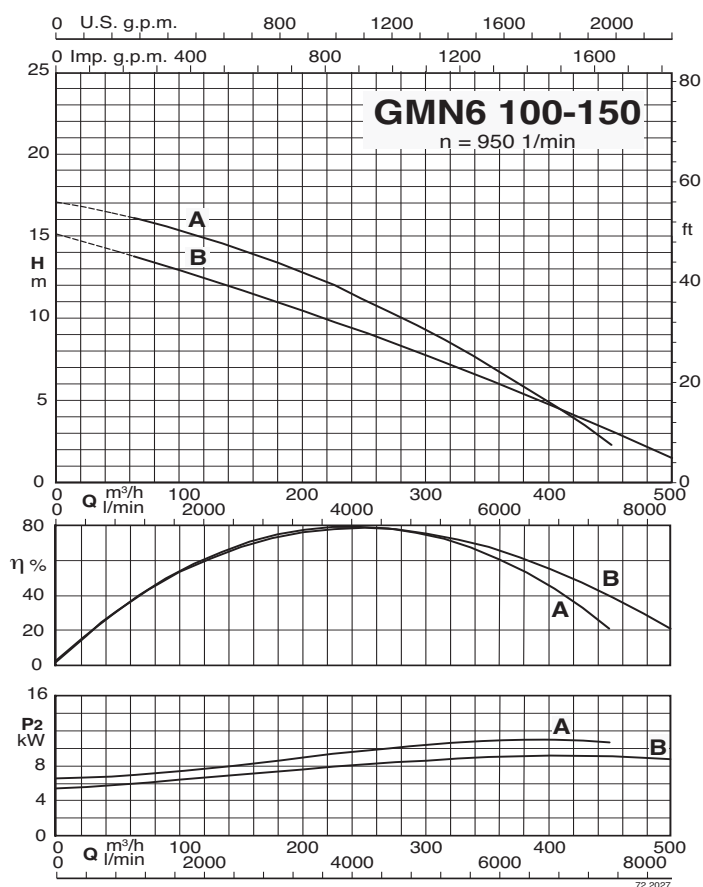
## Characteristic curves



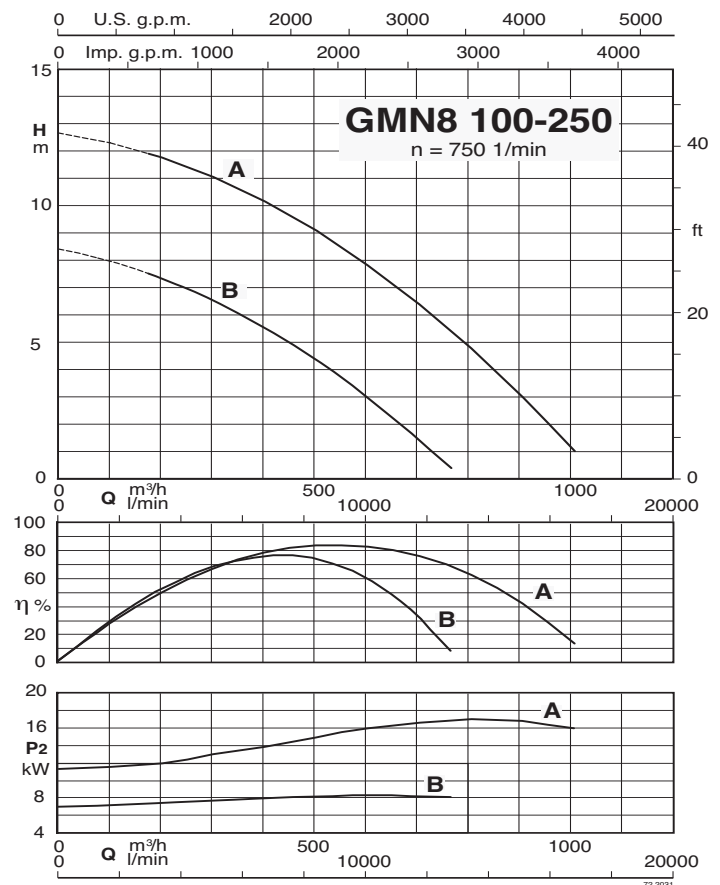
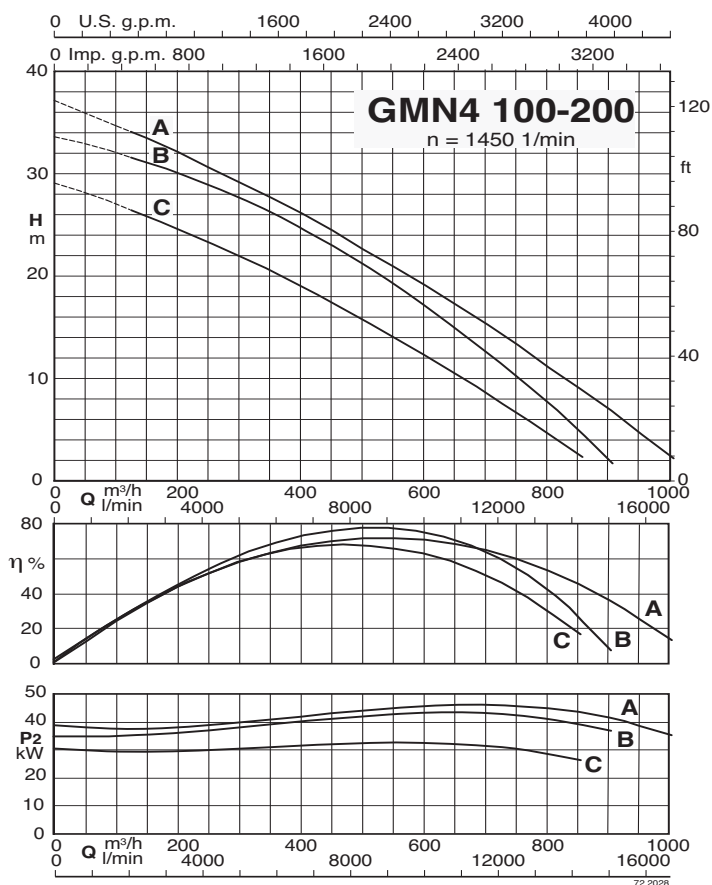
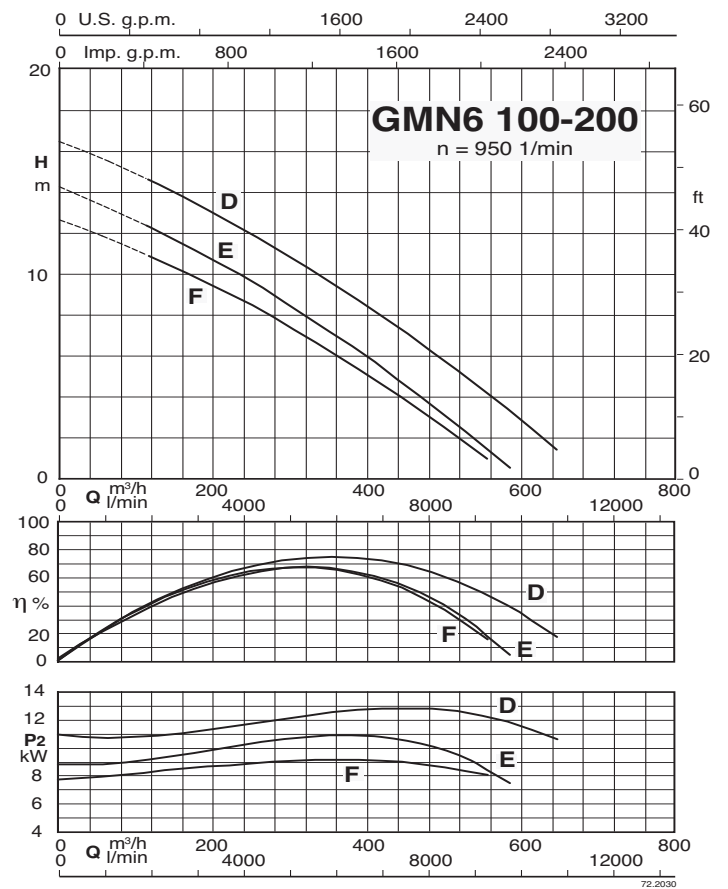
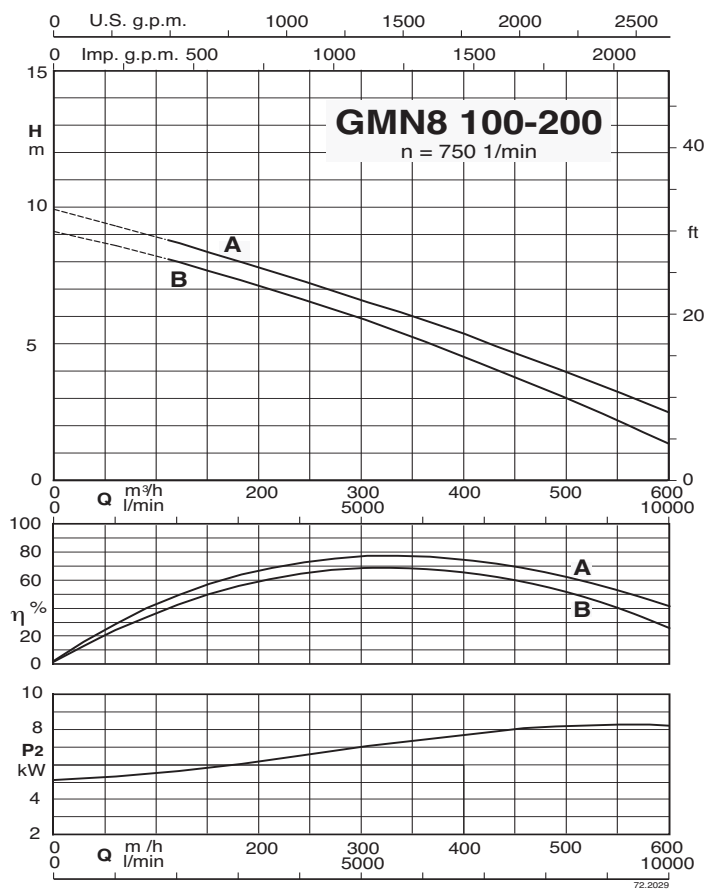
## Characteristic curves



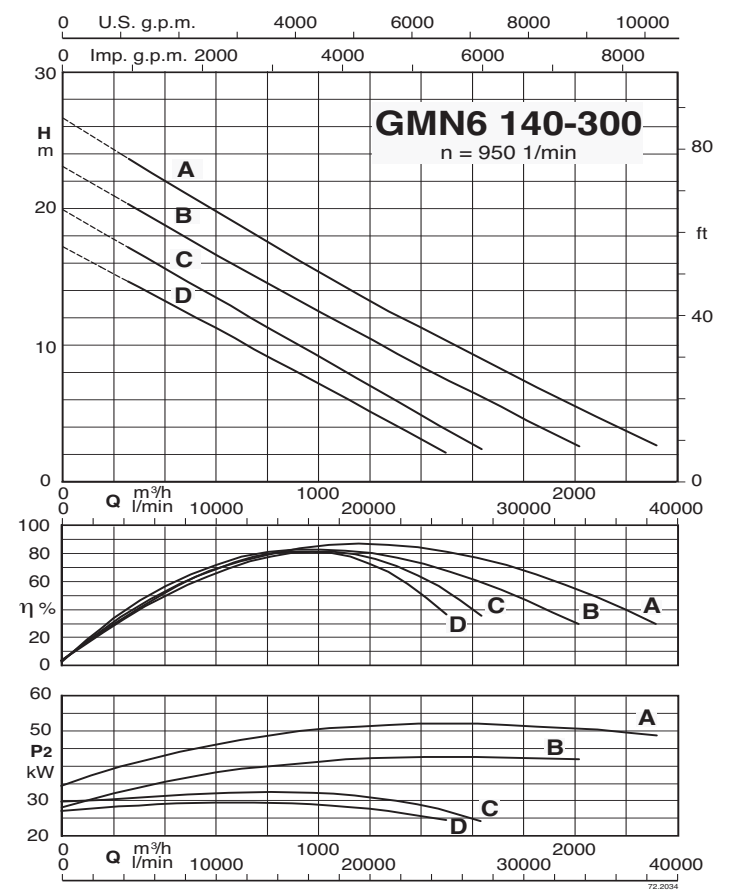
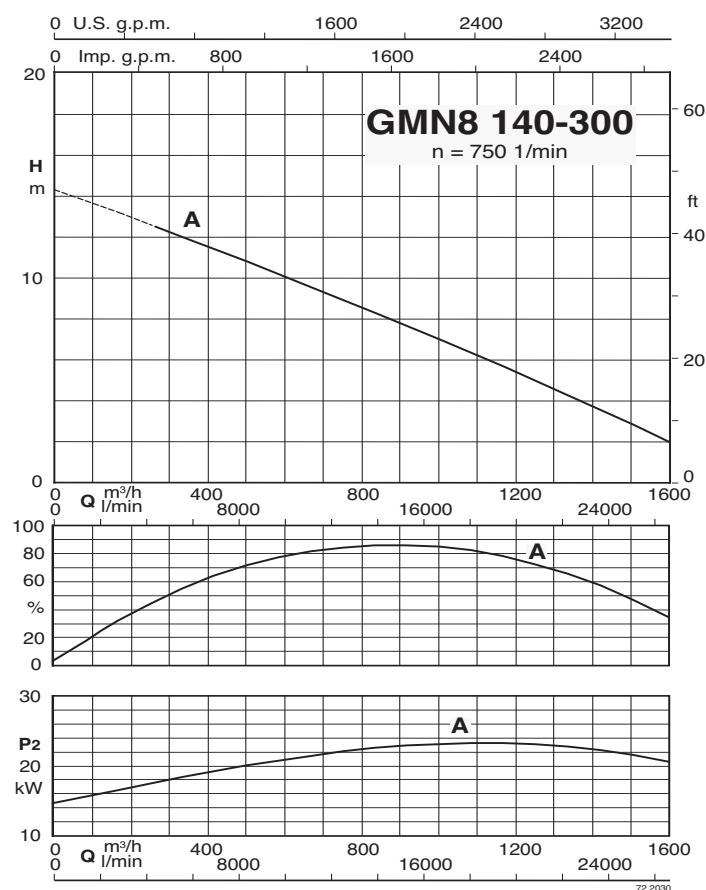
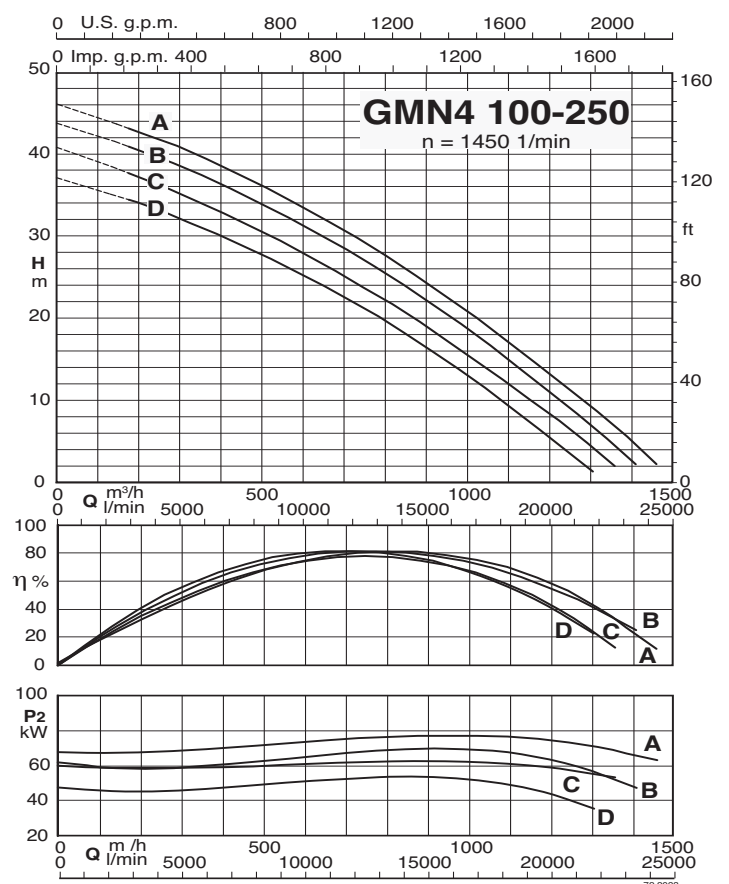
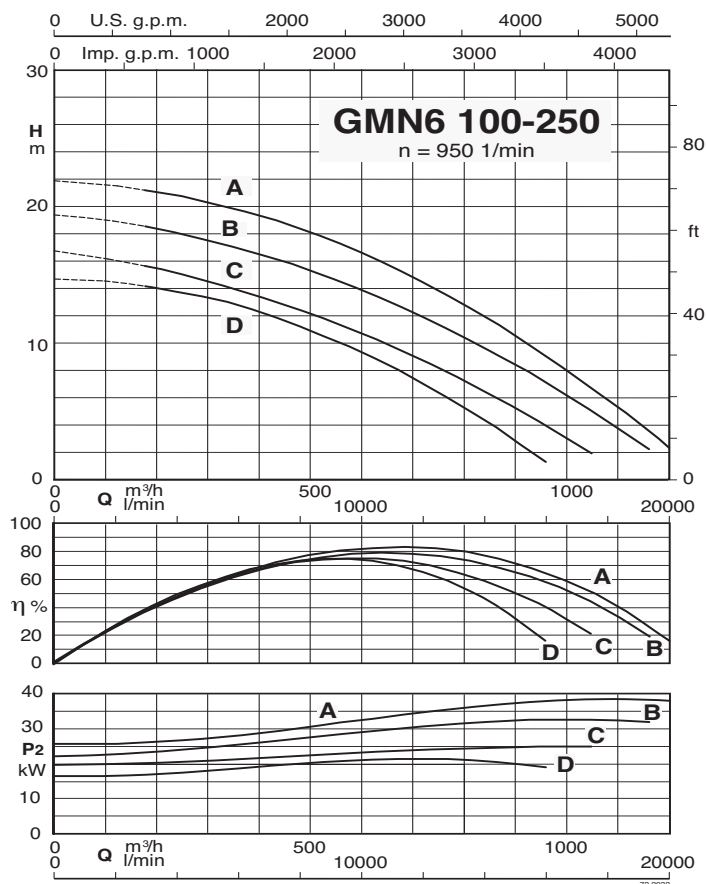
### Characteristic curves



### Characteristic curves

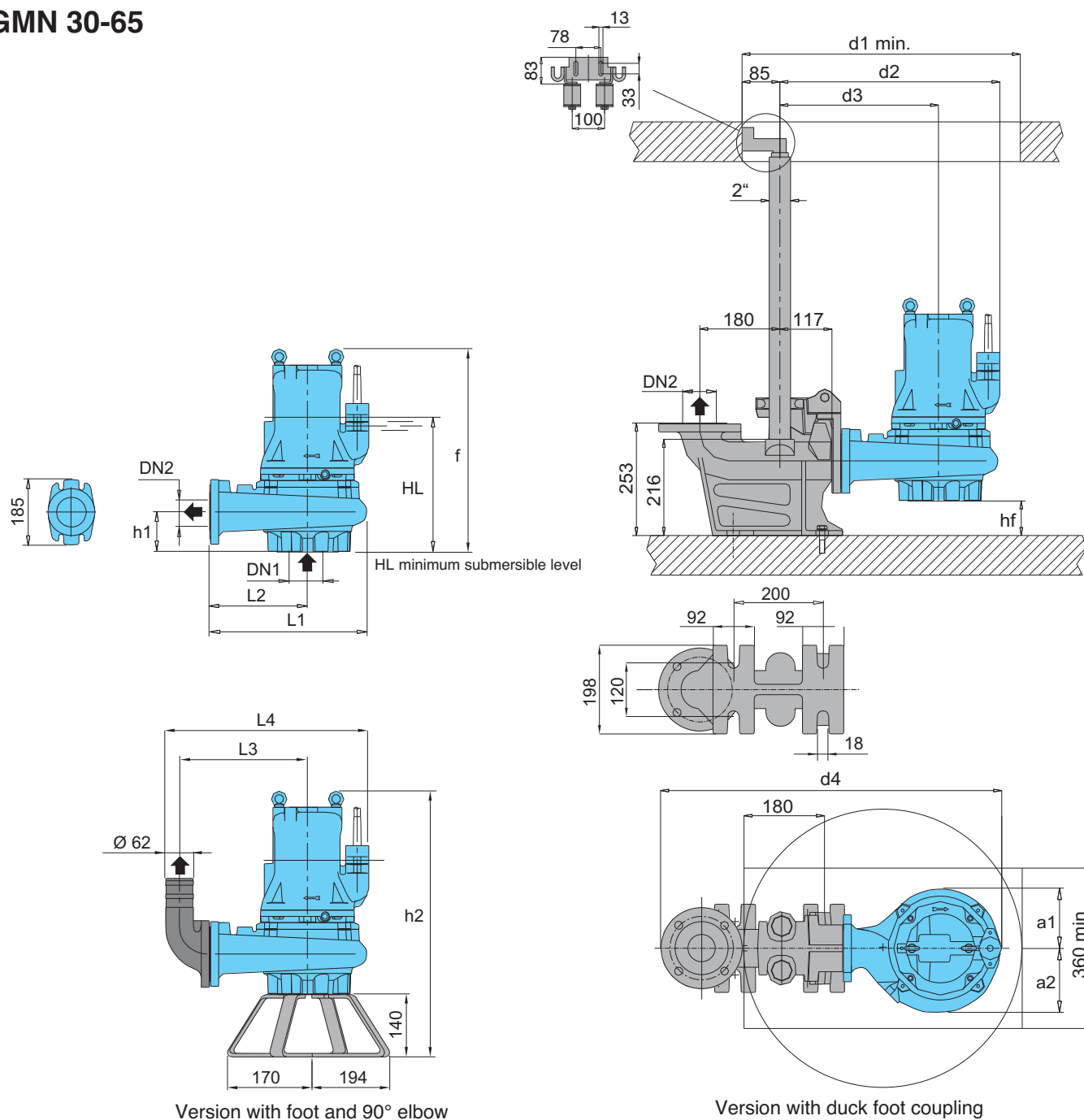


### Characteristic curves



### Dimensions and weights

#### GMN 30-65



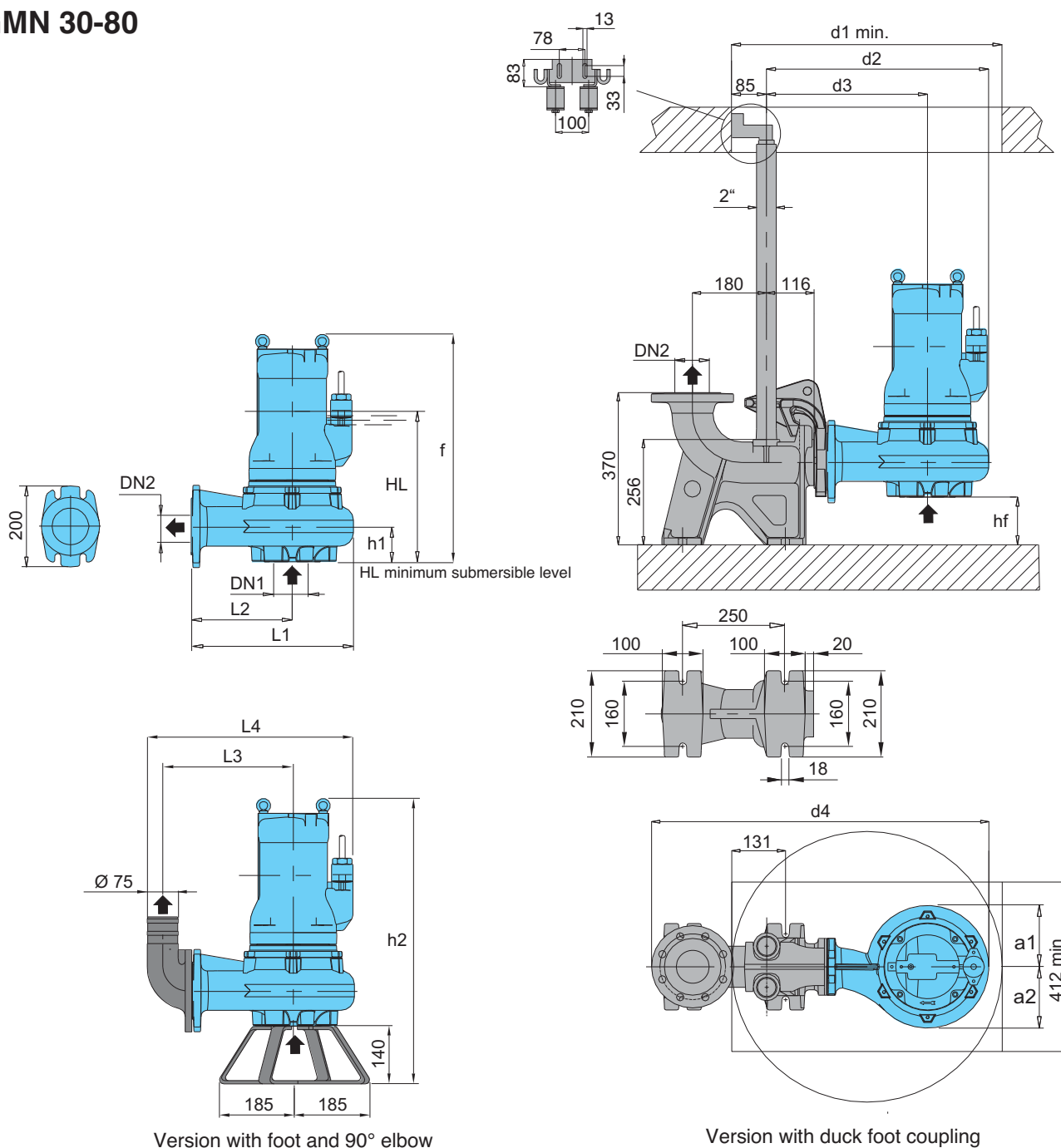
Version with foot and 90° elbow

Version with duck foot coupling

| TYPE       | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |    |    |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|------------|--------------------|-----|------------------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|            | DN1                | DN2 | f                | HL  | hf | h1 | h2  | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| GMN 30-65B | 80                 | 65  | 456              | 300 | 78 | 90 | 596 | 133 | 145 | 625 | 495 | 357 | 767 | 358 | 220 | 289 | 458 | 61           |
| GMN 30-65A |                    |     |                  |     |    |    |     |     |     |     |     |     |     |     |     |     |     |              |

### Dimensions and weights

#### GMN 30-80



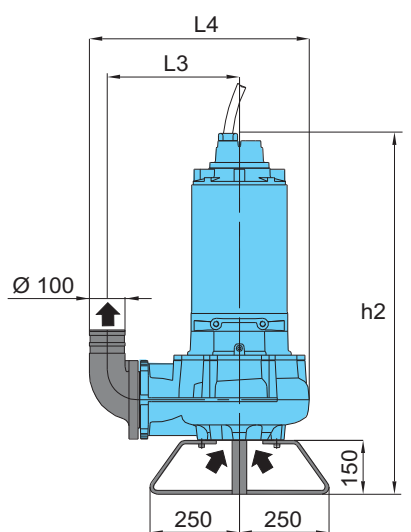
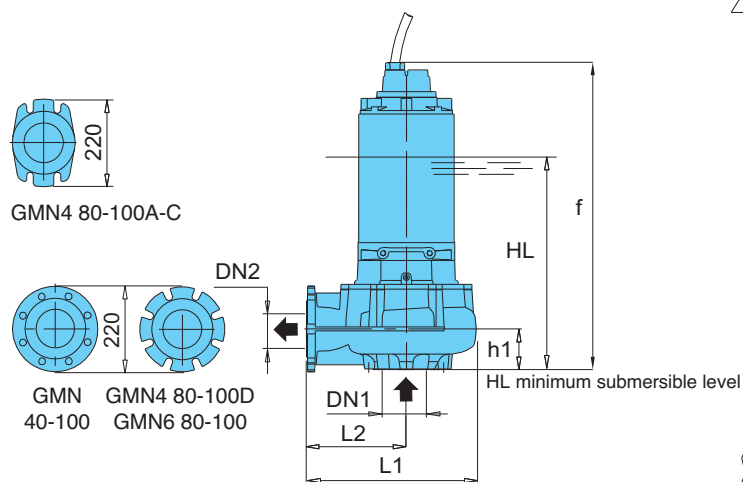
Version with foot and 90° elbow

Version with duck foot coupling

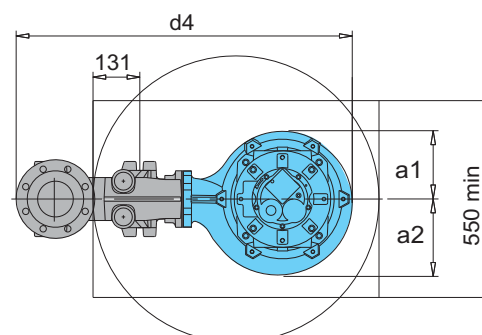
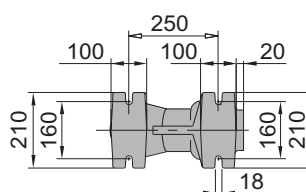
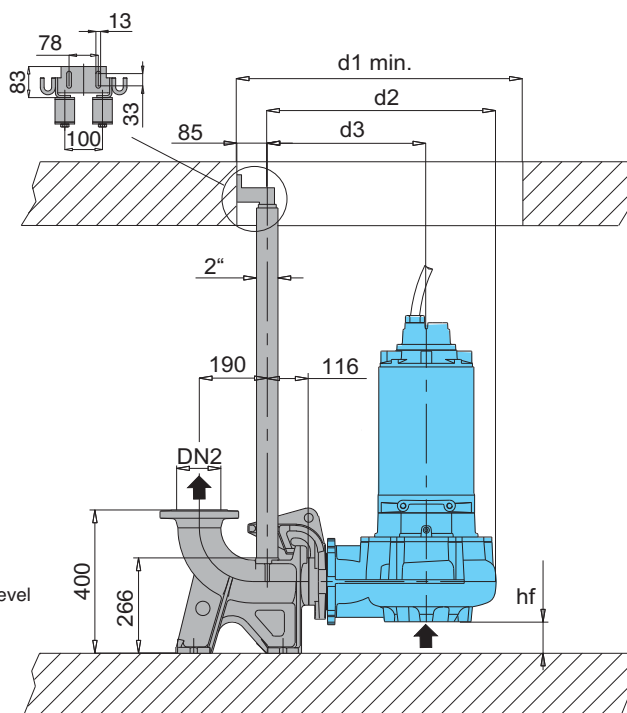
| TYPE       | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |    |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|------------|--------------------|-----|------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|            | DN1                | DN2 | f                | HL  | hf  | h1 | h2  | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| GMN 30-80B | 80                 | 80  | 515              | 330 | 110 | 90 | 655 | 133 | 145 | 700 | 511 | 366 | 791 | 365 | 220 | 293 | 475 | 77           |
| GMN 30-80A |                    |     |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMN 30-80S | 80                 | 80  | 767              | 438 | 132 | 68 | 917 | 165 | 165 | 700 | 571 | 386 | 851 | 405 | 220 | 292 | 515 | 150          |

### Dimensions and weights

**GMN 40-100**  
**GMN 50-100**  
**GMN4 80-100**  
**GMN6 80-100**



Version with foot and 90° elbow

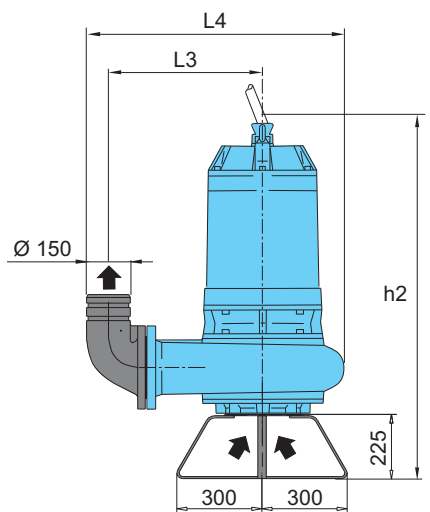
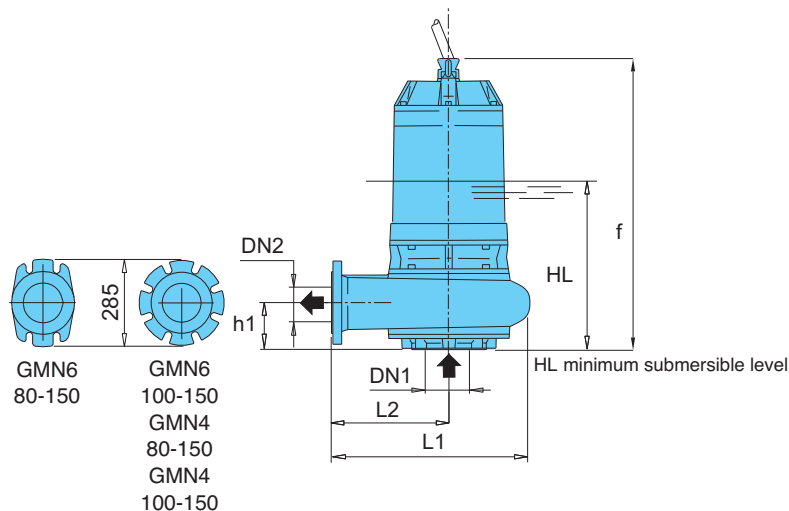


Version with duck foot coupling

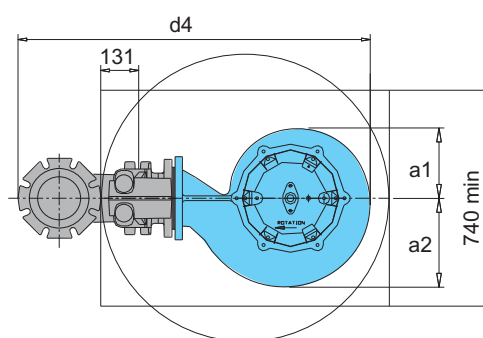
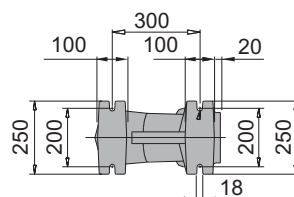
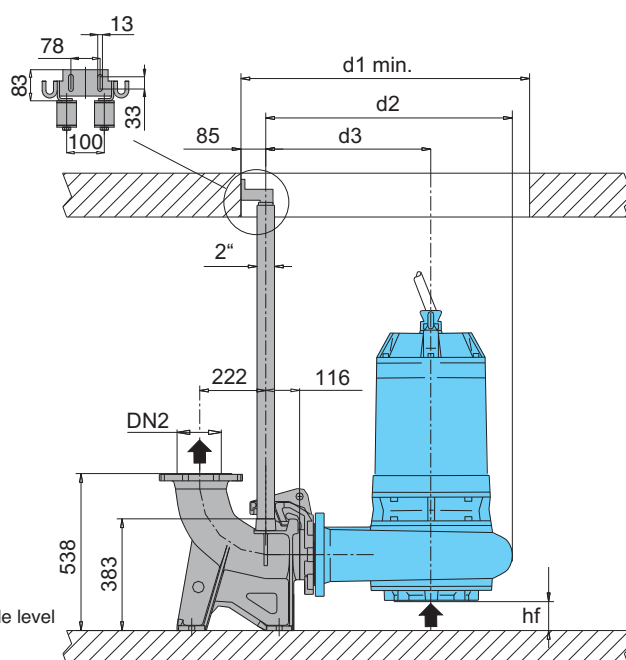
| TYPE         | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |     |     |     |     | Weight<br>kg |     |  |
|--------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|--|
|              | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  |              | L4  |  |
| GMN 40-100D  | 125                | 100 | 794              | 480 | 127 | 73  | 944  | 168 | 184 | 750 | 628 | 441 | 928 | 462 | 275 | 365 | 602          | 200 |  |
| GMN 40-100C  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |  |
| GMN 40-100B  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |              |     |  |
| GMN 40-100S  | 125                | 100 | 1269             | 570 | 127 | 73  | 1419 | 193 | 193 | 800 | 628 | 441 | 928 | 462 | 280 | 365 | 602          | 340 |  |
| GMN4 80-100D | 125                | 100 | 597              | 424 | 62  | 138 | 747  | 180 | 231 | 850 | 673 | 466 | 973 | 507 | 300 | 390 | 647          | 110 |  |
| GMN4 80-100C | 125                | 100 | 852              | 526 | 54  | 147 | 1002 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 369 | 614          | 160 |  |
| GMN4 80-100A | 125                | 100 | 920              | 570 | 54  | 147 | 1040 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 369 | 614          | 200 |  |
| GMN6 80-100B | 125                | 100 | 531              | 372 | 62  | 138 | 681  | 180 | 231 | 850 | 673 | 466 | 973 | 507 | 300 | 390 | 647          | 86  |  |
| GMN6 80-100A |                    |     | 597              | 424 |     |     | 747  |     |     |     |     |     |     |     |     |     |              | 111 |  |

### Dimensions and weights

GMN6 80-150  
GMN6 100-150  
GMN4 80-150  
GMN4 100-150



Version with foot and 90° elbow



Version with duck foot coupling

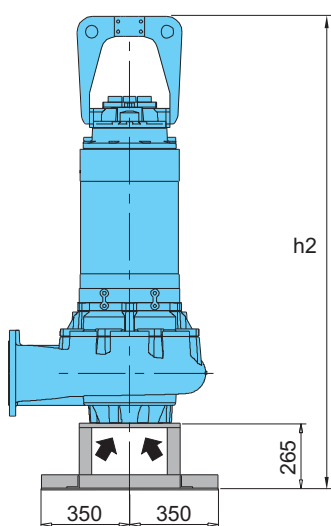
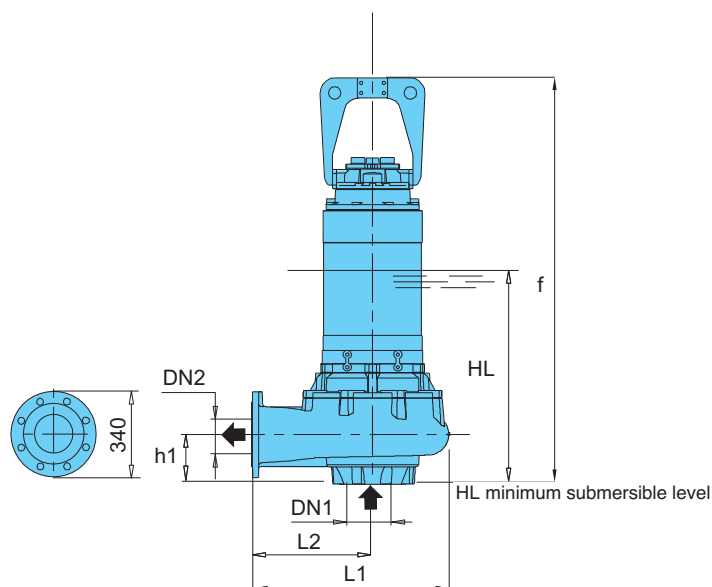
| TYPE            | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |      |     |     |     |     | Weight<br>kg |
|-----------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|--------------|
|                 | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4   | L1  | L2  | L3  | L4  |              |
| GMN6 80-150B    | 150                | 150 | 820              | 540 | 113 | 147 | 1042 | 191 | 223 | 850 | 673 | 467 | 1038 | 507 | 301 | 431 | 712 | 186          |
| GMN6 80-150A    |                    |     | 933              | 580 |     |     |      |     |     |     |     |     |      |     |     |     |     | 220          |
| GMN6 100-150B/A | 150                | 150 | 1409             | 737 | 80  | 180 | 1630 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 878 | 450          |
| GMN6 100-150A/A |                    |     | 1409             | 737 |     |     |      |     |     |     |     |     |      |     |     |     |     | 450          |
| GMN4 80-150C/A  | 150                | 150 | 1409             | 737 | 80  | 180 | 1630 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 878 | 450          |
| GMN4 80-150B/A  | 150                | 150 | 1439             | 742 | 80  | 180 | 1660 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 878 | 515          |
| GMN4 100-150G   | 150                | 150 | 1409             | 737 | 80  | 180 | 1630 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 878 | 450          |
| GMN4 100-150F   |                    |     |                  |     |     |     |      |     |     |     |     |     |      |     |     |     |     | 450          |
| GMN4 100-150E/A |                    |     |                  |     |     |     |      |     |     |     |     |     |      |     |     |     |     | 450          |
| GMN4 100-150D/A | 150                | 150 | 1439             | 742 | 80  | 180 | 1660 | 239 | 304 | 990 | 840 | 566 | 1208 | 673 | 400 | 530 | 878 | 515          |
| GMN4 100-150S/A |                    |     |                  |     |     |     |      |     |     |     |     |     |      |     |     |     |     | 515          |

### Dimensions and weights

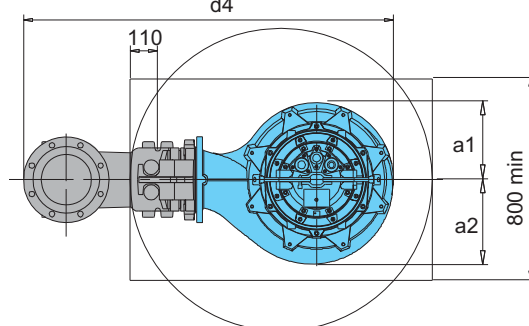
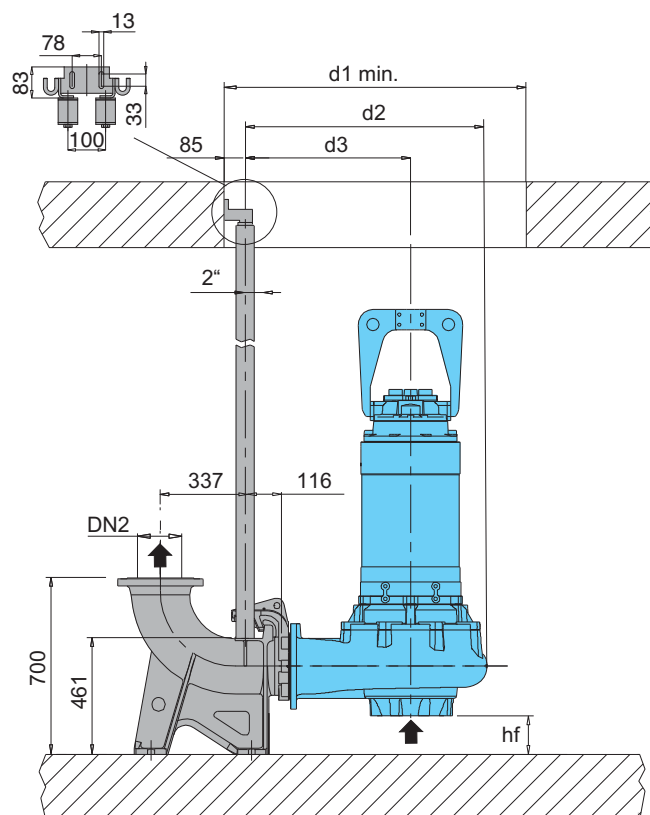
**GMN4 100-200**

**GMN6 100-200**

**GMN8 100-200**



Version with foot



Version with duck foot coupling

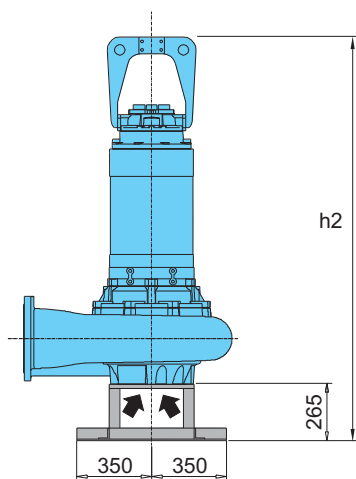
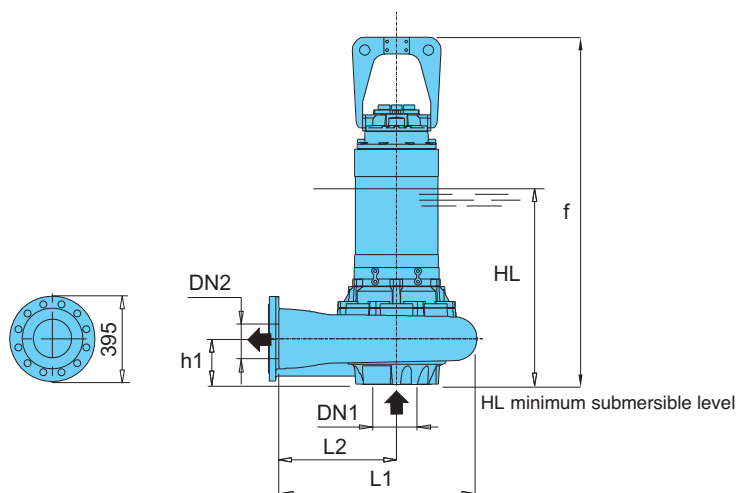
| TYPE            | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     | Weight<br>kg |
|-----------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|----|----|-----|--------------|
|                 | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1   | d2  | d3  | d4   | L1  | L2  | L3 | L4 |     |              |
| GMN4 100-200C   | 200                | 200 | 1613             | 780 | 153 | 198 | 1878 | 306 | 335 | 1200 | 962 | 656 | 1469 | 786 | 480 | -  | -  | 665 |              |
| GMN4 100-200B   |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     |              |
| GMN4 100-200A   |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     |              |
| GMN6 100-200F/A | 200                | 200 | 1392             | 665 | 153 | 180 | 1655 | 269 | 336 | 1200 | 958 | 656 | 1314 | 782 | 480 | -  | -  | 460 |              |
| GMN6 100-200E/A |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     |              |
| GMN6 100-200D/A |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     |              |
| GMN8 100-200B/B | 200                | 200 | 1392             | 665 | 153 | 180 | 1655 | 269 | 335 | 1200 | 958 | 656 | 1314 | 782 | 480 | -  | -  | 435 |              |
| GMN8 100-200A   |                    |     |                  |     |     |     |      |     |     |      |     |     |      |     |     |    |    |     |              |

### Dimensions and weights

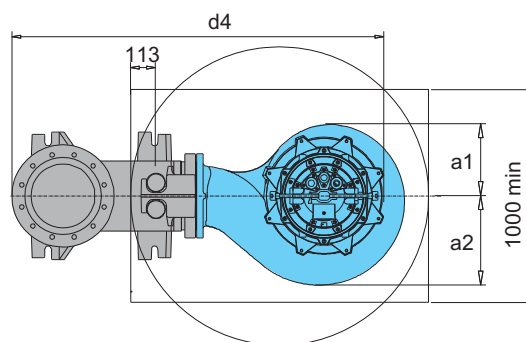
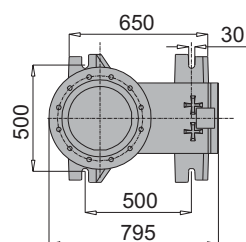
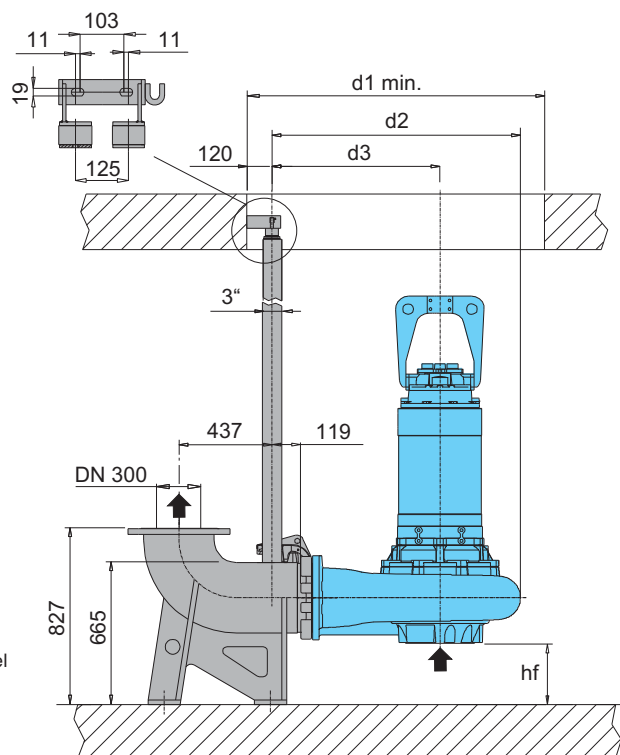
**GMN4 100-250**

**GMN6 100-250**

**GMN8 100-250**



Version with foot

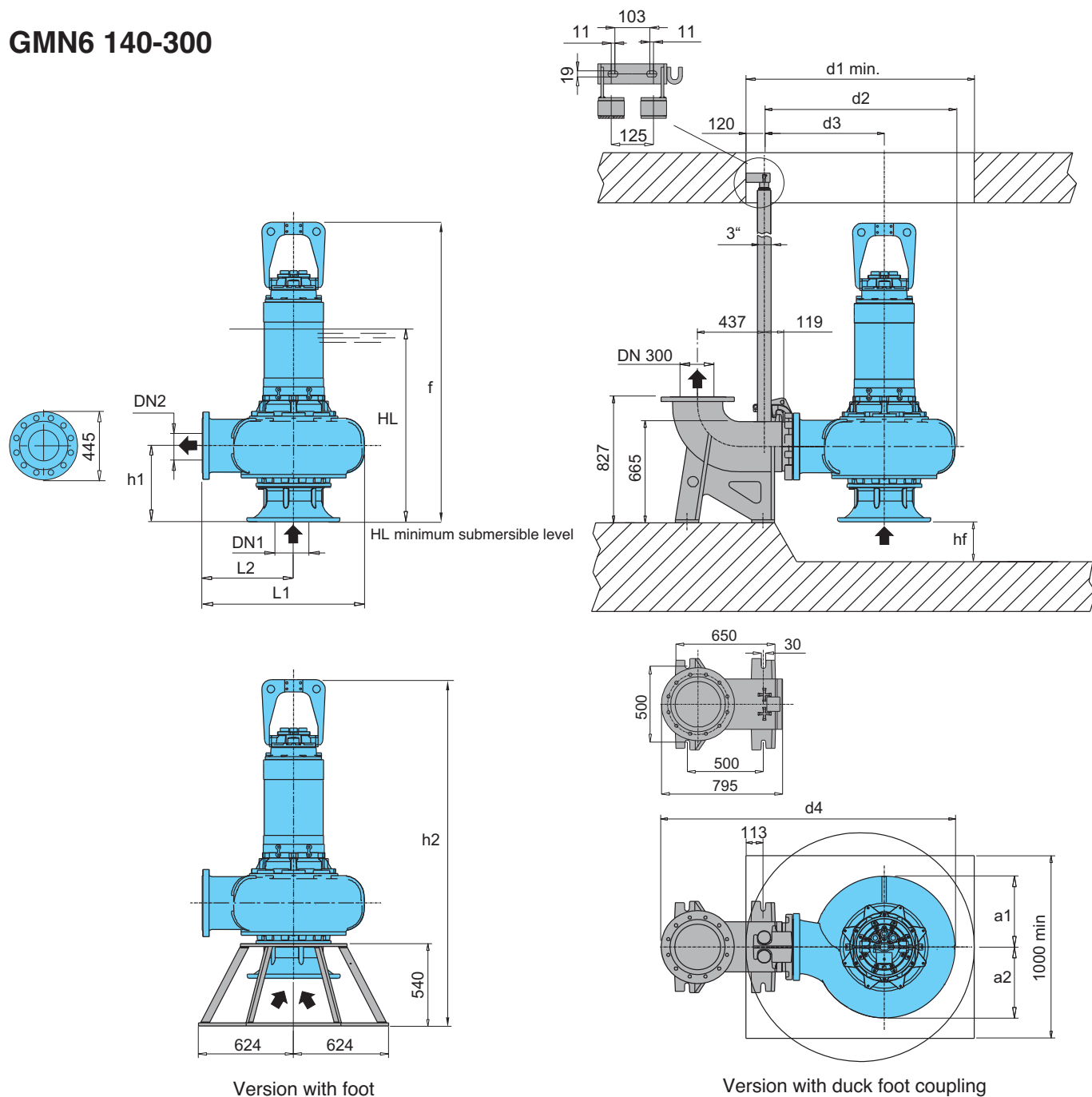


Version with duck foot coupling

| TYPE            | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |              |     |     |      |      |     |      |      |     |    |    |     | Weight<br>kg |
|-----------------|--------------------|-----|------------------|-----|-----|-----|--------------|-----|-----|------|------|-----|------|------|-----|----|----|-----|--------------|
|                 | DN1                | DN2 | f                | HL  | hf  | h1  | h2           | a1  | a2  | d1   | d2   | d3  | d4   | L1   | L2  | L3 | L4 |     |              |
| GMN4 100-250D   | 250                | 250 | 1710             | 835 | 286 | 214 | 1975         | 336 | 419 | 1400 | 1167 | 789 | 1843 | 978  | 600 | -  | -  | 914 |              |
| GMN4 100-250C   |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    |     |              |
| GMN4 100-250B   |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    |     |              |
| GMN4 100-250A   |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    |     |              |
| GMN6 100-250D   | 250                | 250 | 1408<br>1437     | 735 | 250 | 180 | 1670<br>1702 | 336 | 419 | 1400 | 1203 | 789 | 1843 | 1014 | 600 | -  | -  | 510 |              |
| GMN6 100-250C   |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    | 590 |              |
| GMN6 100-250B   | 250                | 250 | 1629             | 800 | 286 | 214 | 1894         | 336 | 419 | 1400 | 1167 | 789 | 1843 | 978  | 600 | -  | -  | 730 |              |
| GMN6 100-250A   |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    |     |              |
| GMN8 100-250B/A | 250                | 250 | 1408<br>1437     | 735 | 250 | 180 | 1670<br>1702 | 336 | 419 | 1400 | 1203 | 789 | 1843 | 1014 | 600 | -  | -  | 520 |              |
| GMN8 100-250A/B |                    |     |                  |     |     |     |              |     |     |      |      |     |      |      |     |    |    | 600 |              |

### Dimensions and weights

#### GMN6 140-300



| TYPE          | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |      |     |     |      |     |     |      |      |     |      |      |     |    |    | Weight<br>kg |
|---------------|--------------------|-----|------------------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|----|----|--------------|
|               | DN1                | DN2 | f                | HL   | hf  | h1  | h2   | a1  | a2  | d1   | d2   | d3  | d4   | L1   | L2  | L3 | L4 |              |
| GMN6 140-300D | 350                | 300 | 1959             | 1127 | 260 | 494 | 2271 | 465 | 465 | 1500 | 1254 | 789 | 1930 | 1065 | 600 | -  | -  | 1042         |
| GMN6 140-300C |                    |     |                  |      |     |     |      |     |     |      |      |     |      |      |     |    |    |              |
| GMN6 140-300B | 350                | 300 | 2040             | 1164 | 260 | 494 | 2352 | 465 | 465 | 1500 | 1254 | 789 | 1930 | 1065 | 600 | -  | -  | 1230         |
| GMN6 140-300A |                    |     |                  |      |     |     |      |     |     |      |      |     |      |      |     |    |    |              |
| GMN8 140-300A | 350                | 300 | 1959             | 1127 | 260 | 494 | 2271 | 465 | 465 | 1500 | 1254 | 789 | 1930 | 1065 | 600 | -  | -  | 1024         |



### Main materials

Pump casing: cast iron EN-GJL-250  
 Motor casing: cast iron EN-GJL-250  
 Motor cover: cast iron EN-GJL-250  
 Impeller: cast iron GS 400  
 Shaft : stainless steel AISI 420B  
 Lip seal made of nitrile up to 1,6 kW  
 Mechanical seal motor side: graphite/ceramic over 1,6 kW  
 Mechanical seal pump side: silicon carbide/silicon carbide

### Construction

Submersible pumps with high power grinder.  
 Twin mechanical seal with oil chamber (lip-seal motor side up to 1,6 kW).  
 Delivery connection DN 40.

### Applications

Suitable for pumping waste water containing long filamentous, Paper and textile materials and organics.  
 They are particularly suitable for use in domestic, residential and industrial installations  
 Solid passage from 6 and 7 mm

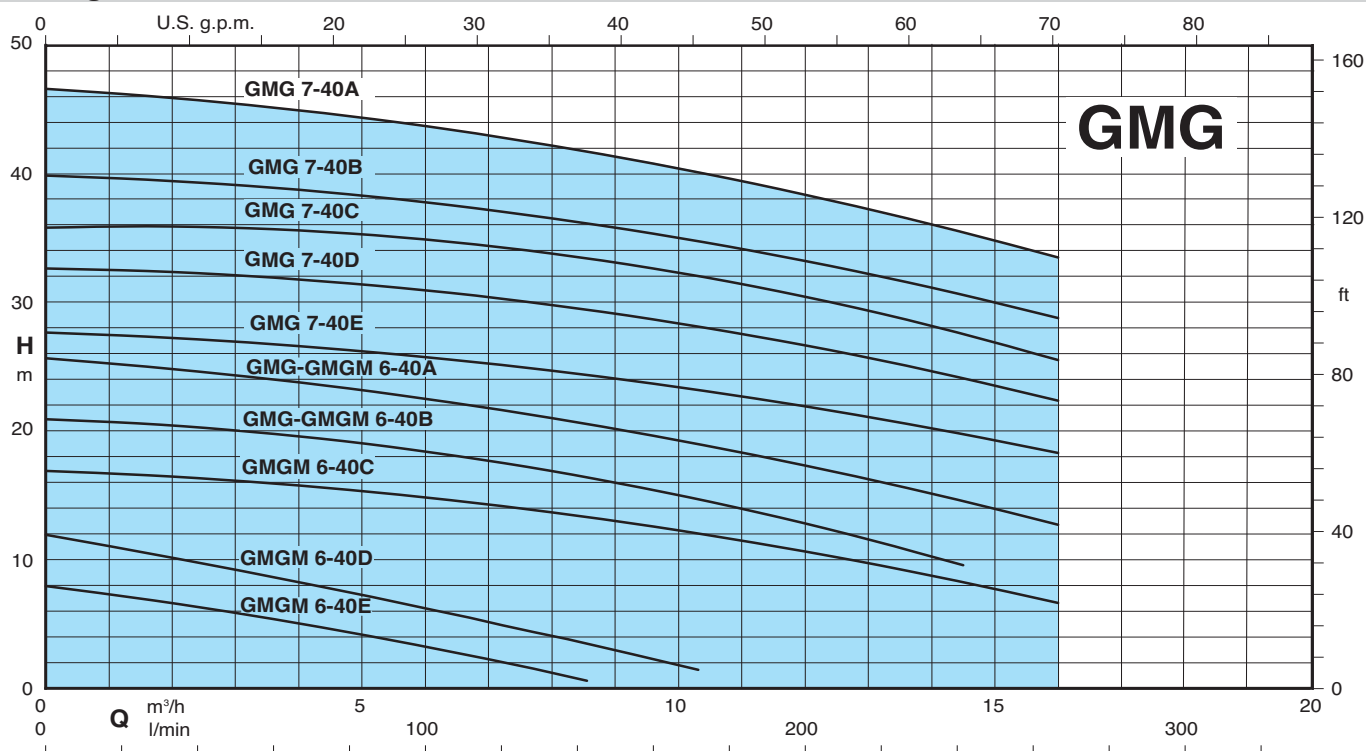
### Operating conditions

Liquid temperature up to 40 °C.  
 Maximum immersion depth: 20 m (with suitable cable length).  
 Continuous duty (with pump immersed at minimum level).

### Motor

2 poles induction, 50Hz  
 Single-phase version: 230V  $\pm$  10%, with float switch and control box with thermal protection and starting capacitors.  
 Three-phase version: 400V  $\pm$  10%, up to 3,2 kW  
 400/690V  $\pm$  10%, over 3,2 kW  
 Insulation class: H  
 Protection degree: IP 68  
 N° of starting x hour: max 15 with regular intervals  
 Cable: H07RN-F, length 10 m  
 Other models: contact our sale office

### Coverage chart



## Technical data

| TYPE         | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | ATEX<br>Eex |
|--------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|-------------|
| GMGM 6-40E/A | 1,1                  | 7,5                 | 1~ 230V      | 2850   | D.O.L.   | 40       | 6                       | ●                    | NO                |             |
| GMGM 6-40D/A | 1,1                  | 7,5                 | 1~ 230V      | 2850   | D.O.L.   | 40       | 6                       | ●                    | NO                |             |
| GMGM 6-40C   | 1,1                  | 7,5                 | 1~ 230V      | 2850   | D.O.L.   | 40       | 6                       | ●                    | NO                |             |
| GMGM 6-40B   | 1,1                  | 7,5                 | 1~ 230V      | 2850   | D.O.L.   | 40       | 6                       | ●                    | NO                |             |
| GMG 6-40B    | 1,4                  | 3,5                 | 3~ 400V      | 2850   | D.O.L.   | 40       | 6                       | NO                   | NO                | ✓           |
| GMGM 6-40A   | 1,8                  | 10                  | 1~ 230V      | 2850   | D.O.L.   | 40       | 6                       | ●                    | NO                |             |
| GMG 6-40A    | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 40       | 6                       | NO                   | NO                | ✓           |
| GMG 7-40E    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 40       | 7                       | NO                   | NO                | ✓           |
| GMG 7-40D    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 40       | 7                       | NO                   | NO                | ✓           |
| GMG 7-40C    | 4,1                  | 8,5                 | 3~ 400/690V  | 2850   | Y/Δ      | 40       | 7                       | ●                    | ●                 | ✓           |
| GMG 7-40B    | 5                    | 11                  | 3~ 400/690V  | 2850   | Y/Δ      | 40       | 7                       | ●                    | ●                 | ✓           |
| GMG 7-40A    | 5                    | 11                  | 3~ 400/690V  | 2850   | Y/Δ      | 40       | 7                       | ●                    | ●                 | ✓           |

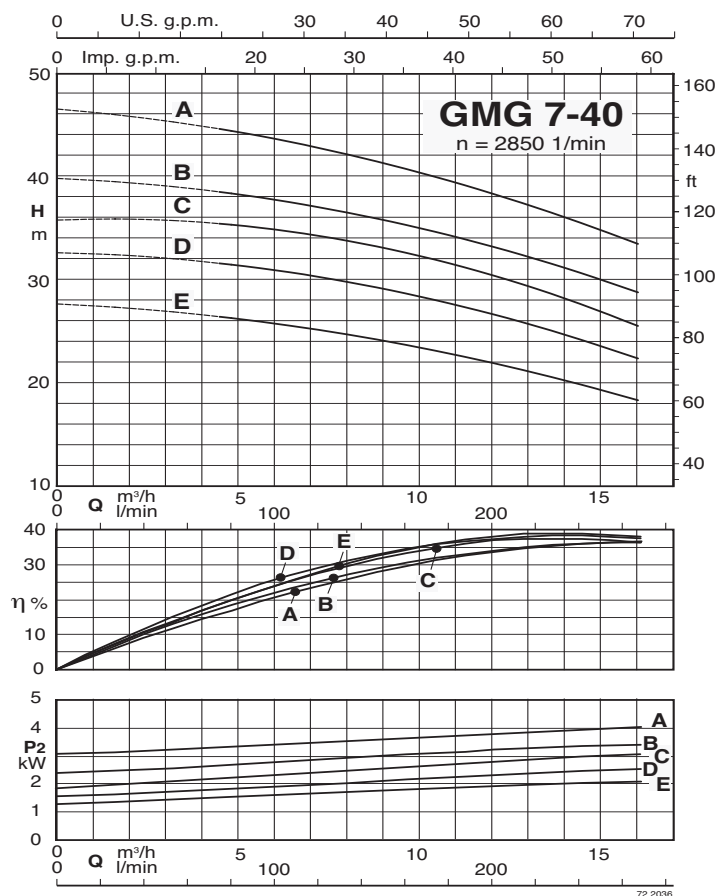
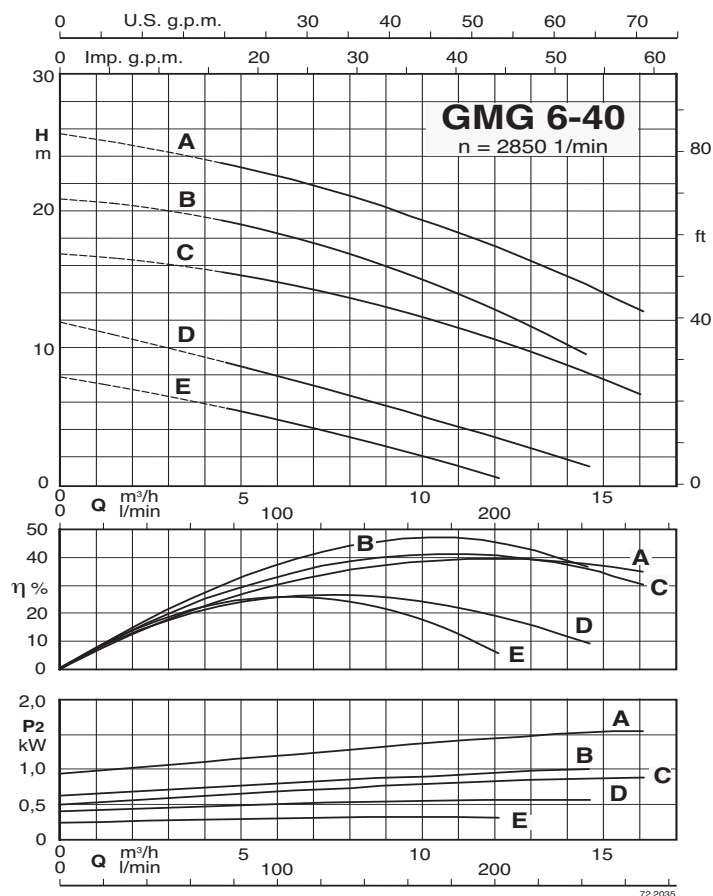
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

● Standard

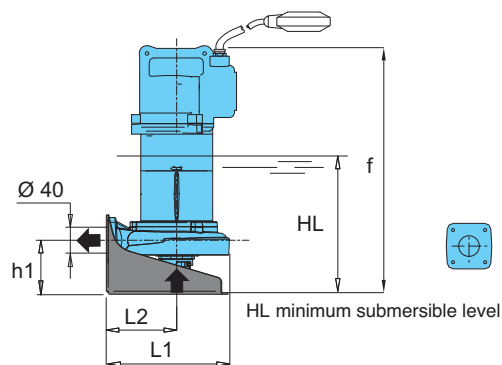
✓ ATEX Eex Version on demand

### Characteristic curves

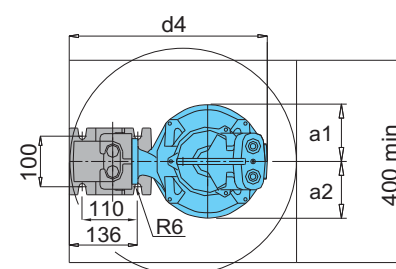
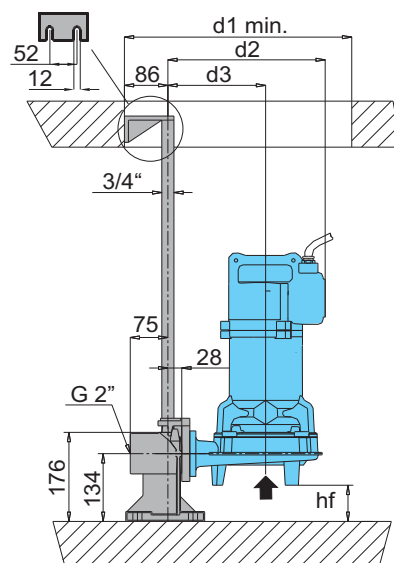
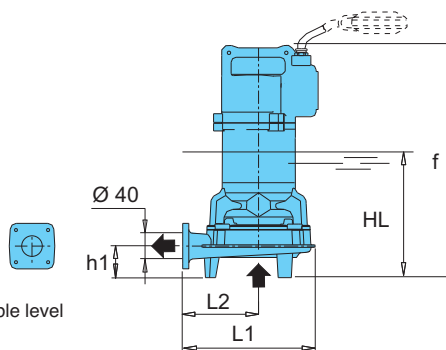


### Dimensions and weights

#### GMGM 6-40D/A, E/A



#### GMGM 6-40 GMG 6-40 GMG 7-40



Version with threaded flange and 90° elbow

Version with duck foot coupling

| TYPE         | Dimensions<br>mm |     |     |    |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|--------------|------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|              | Ø1               | f   | HL  | hf | h1  | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| GMGM 6-40E/A | 40               | 441 | 283 | 77 | 106 | 104 | 104 | 450 | 297 | 178 | 392 | 256 | 138 | 154 | 272 | 30           |
| GMGM 6-40D/A |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMGM 6-40C   |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMGM 6-40B   |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 6-40B    | 40               | 460 | 240 | 71 | 63  | 112 | 112 | 450 | 312 | 194 | 392 | 268 | 150 | 212 | 262 | 40           |
| GMGM 6-40A   |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 6-40A    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40E    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40D    | 40               | 458 | 315 | 10 | 124 | 121 | 121 | 450 | 327 | 189 | 413 | 288 | 150 | 230 | 405 | 45           |
| GMG 7-40C    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40B    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40A    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40A    | 40               | 517 | 336 | 10 | 124 | 121 | 121 | 450 | 334 | 189 | 420 | 295 | 150 | 230 | 412 | 60           |
| GMG 7-40B    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40C    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |
| GMG 7-40D    |                  |     |     |    |     |     |     |     |     |     |     |     |     |     |     |              |



### Construction

Submersible pumps in **AISI 316** stainless steel.

**I-GMV** with free-flow (vortex) impeller

**I-GMC** with single-channel impeller

**I-GMN** with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to 2,4 kW 2 poles).

Delivery connection DN 50-65-80-100-150

### Applications

Suitable to pump aggressive and corrosive liquids, particularly to drain waste water in industrial and chemical process plants. Solid passage from 30 to 100 mm

### Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length).

Continuous duty (with pump immersed at minimum level).

### Main materials

Pump casing: stainless steel AISI 316

Motor casing: stainless steel AISI 316

Motor cover: stainless steel AISI 316

Impeller: stainless steel AISI 316

Shaft: stainless steel AISI 316L

Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to 2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

### Motor

2 or 4 poles induction, 50Hz

Three-phase version: 400V  $\pm$  10%, up to 3,2 kW

400/690V  $\pm$  10%, over 3,2 kW

Insulation class: H

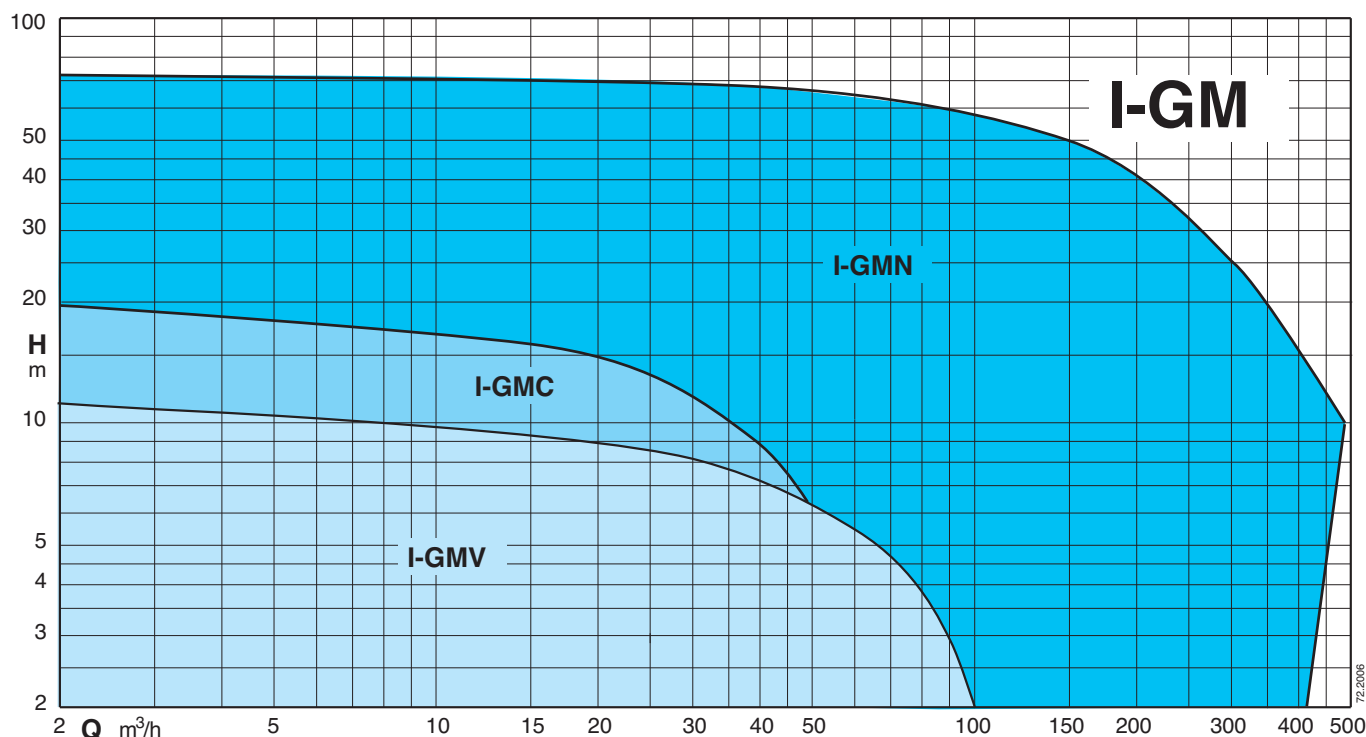
Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m

Other models: contact our sale office

### Coverage chart



### Technical data

| TYPE            | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | <br>ATEX<br>Eex |
|-----------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|----------------------------------------------------------------------------------------------------|
| I-GMV 50-50C    | 1,4                  | 3,5                 | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV 50-50B/A  | 1,4                  | 3,5                 | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV 50-50A/A  | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV4 50-65C   | 1                    | 3                   | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV4 50-65B   | 1                    | 3                   | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV4 50-65A   | 1,3                  | 3,5                 | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV4 50-80B   | 2,3                  | 5                   | 3~ 400V      | 1450   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMV4 50-80A   | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓                                                                                                  |
| I-GMC 40-65B    | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓                                                                                                  |
| I-GMC 40-65A    | 2,9                  | 6                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓                                                                                                  |
| I-GMN 30-65B    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| I-GMN 30-65A    | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| I-GMN 30-80B    | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 30-80A    | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 30-80S    | 8,2                  | 15,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 40-100D   | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 40-100C   | 13,8                 | 29,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 40-100B   | 18,2                 | 34                  | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 40-100S   | 22,4                 | 40,1                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 40                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 50-100C   | 48,2                 | 86,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 50                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 50-100B   | 48,2                 | 86,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 50                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN 50-100A   | 48,2                 | 86,5                | 3~ 400/690V  | 2850   | Y/Δ      | 100      | 50                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 60-100B  | 7,1                  | 13,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 60                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 60-100A  | 7,1                  | 13,5                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 60                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 80-100B  | 11,6                 | 23,2                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 80-100A  | 11,6                 | 23,2                | 3~ 400/690V  | 1450   | Y/Δ      | 100      | 80                      | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 100-150B | 25                   | 48                  | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓                                                                                                  |
| I-GMN4 100-150A | 35,7                 | 65,5                | 3~ 400/690V  | 1450   | Y/Δ      | 150      | 100                     | ●                    | ●                 | ✓                                                                                                  |

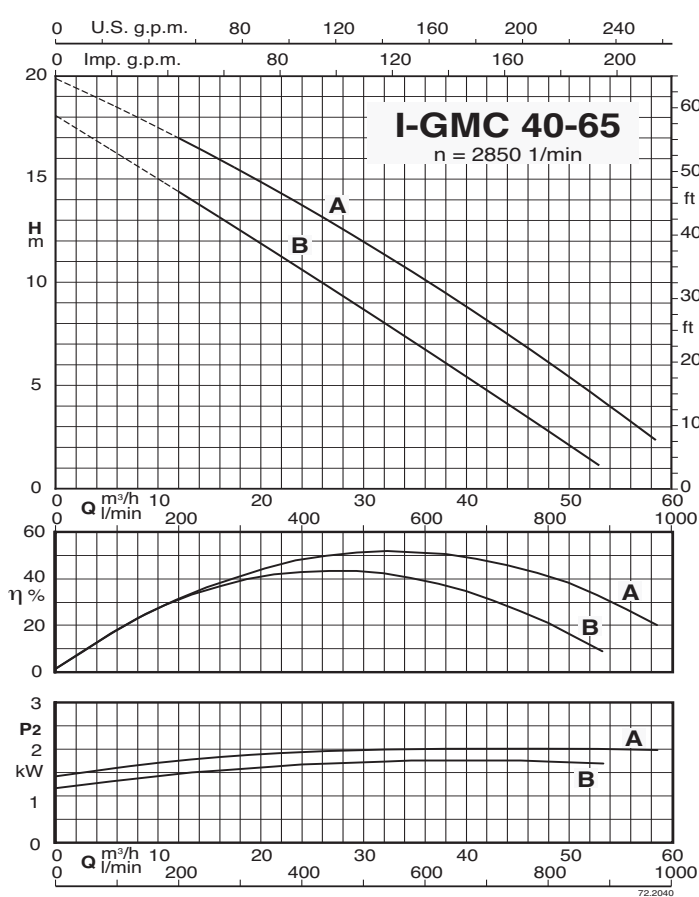
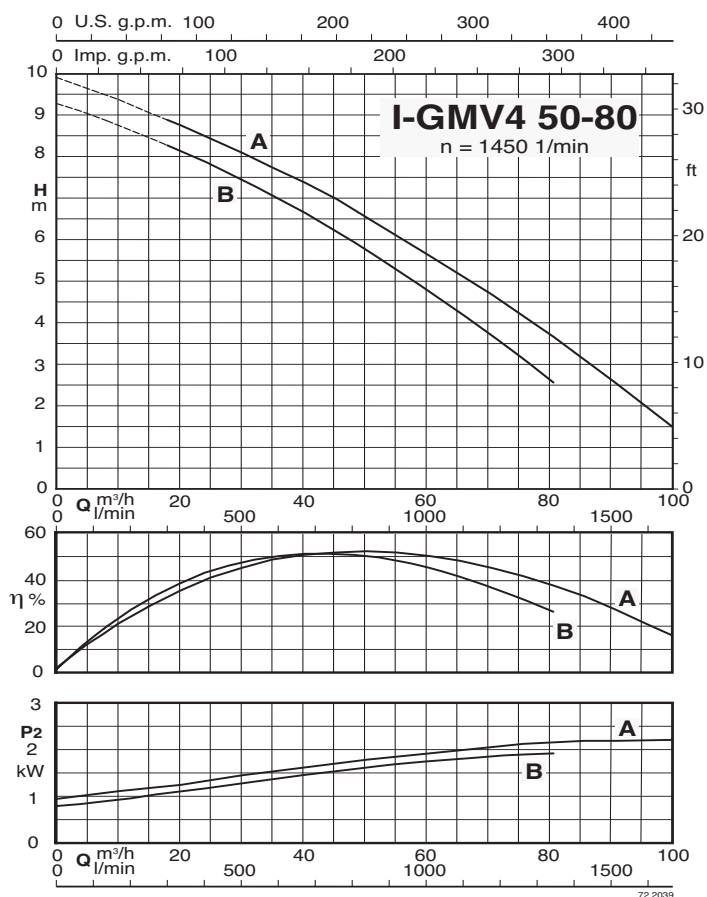
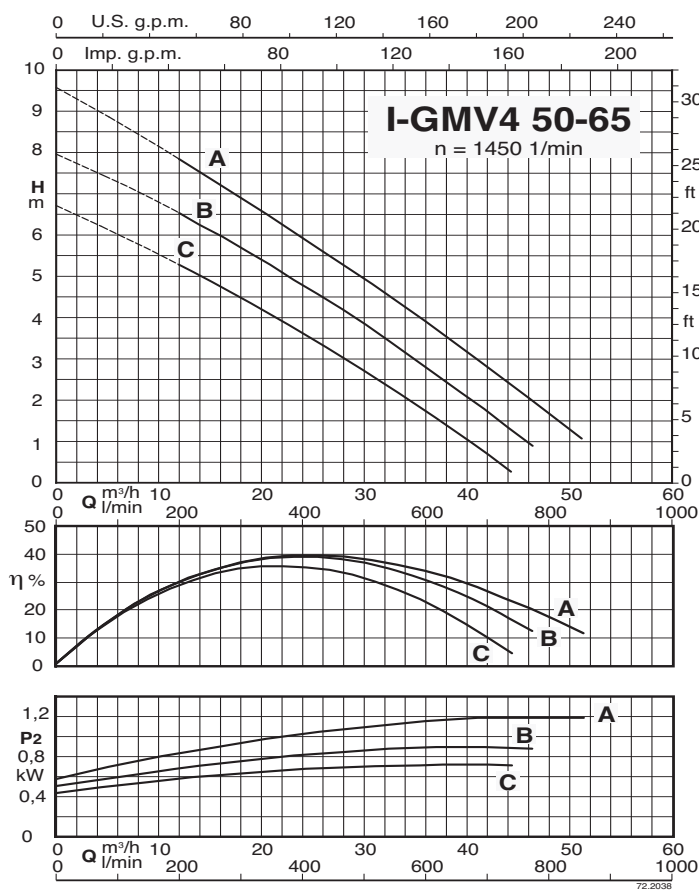
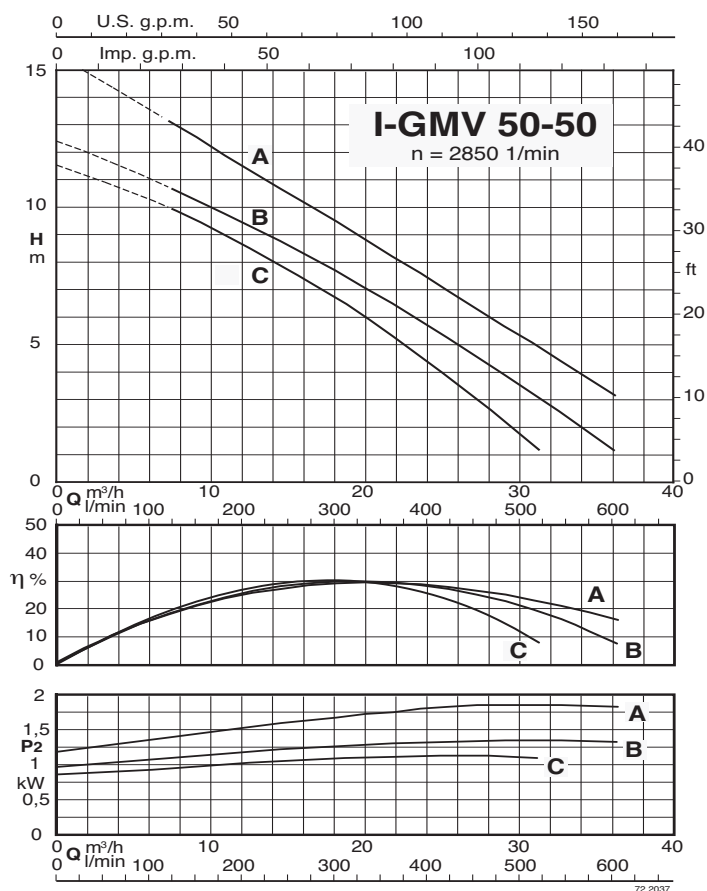
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

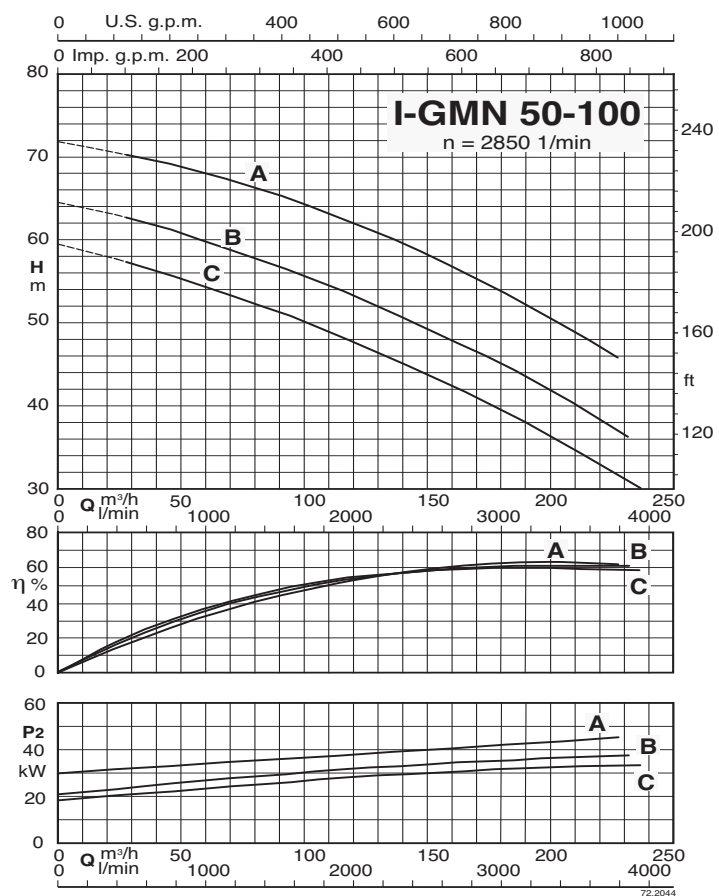
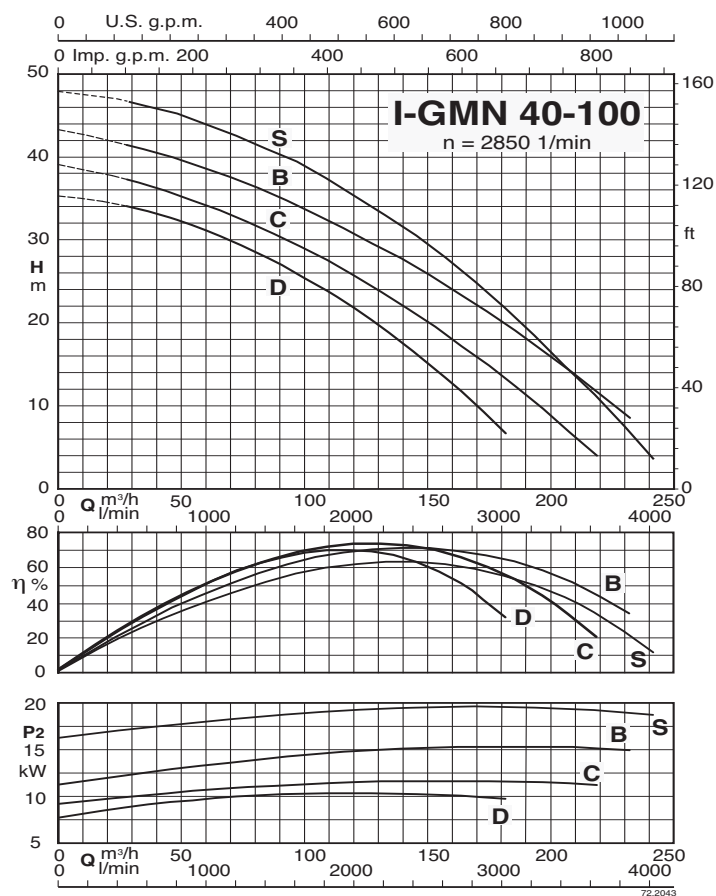
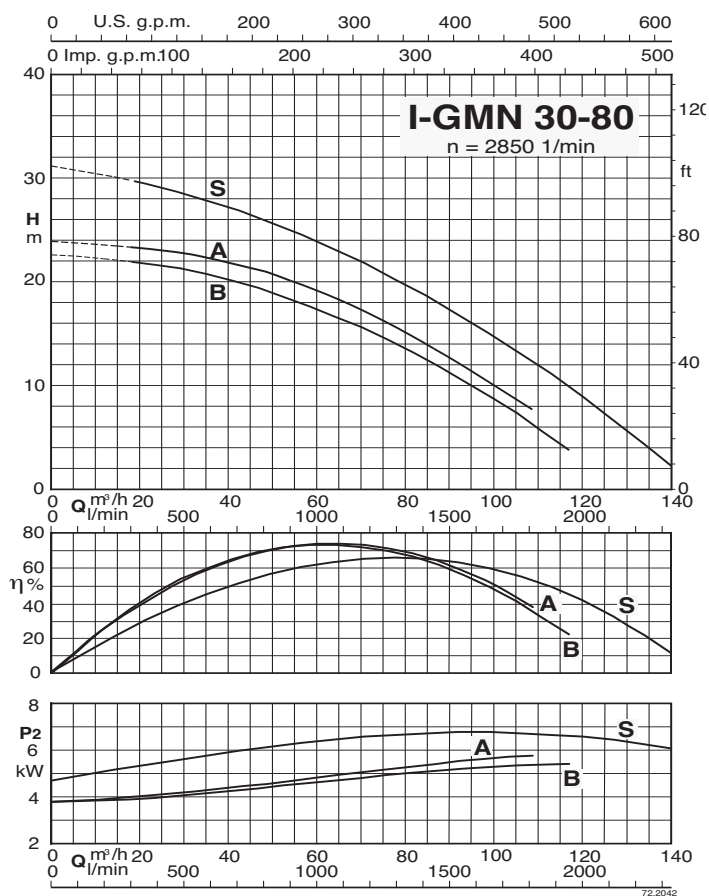
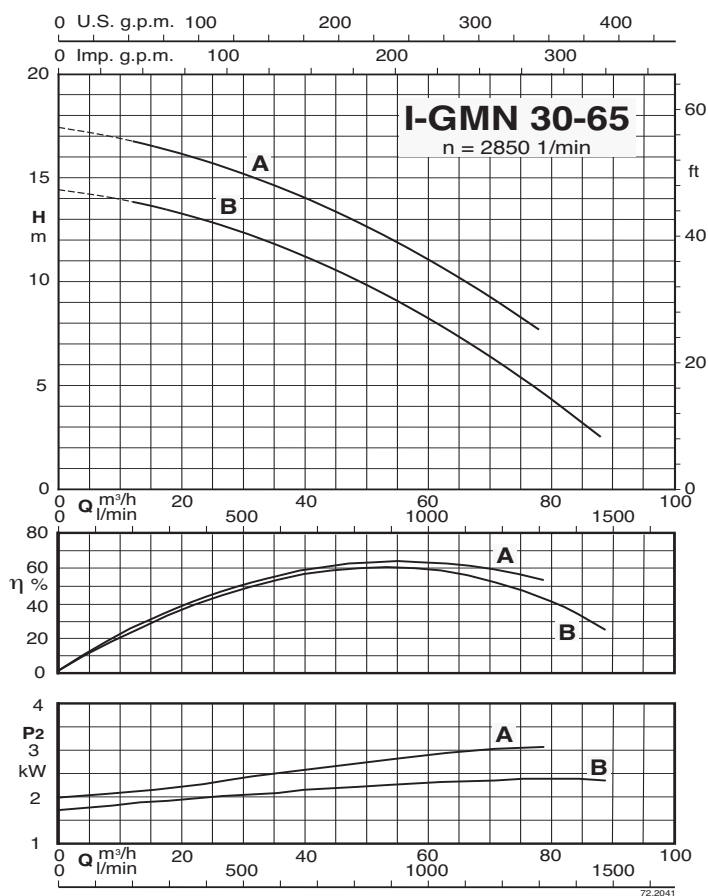
● Standard

✓ ATEX Eex Version on demand

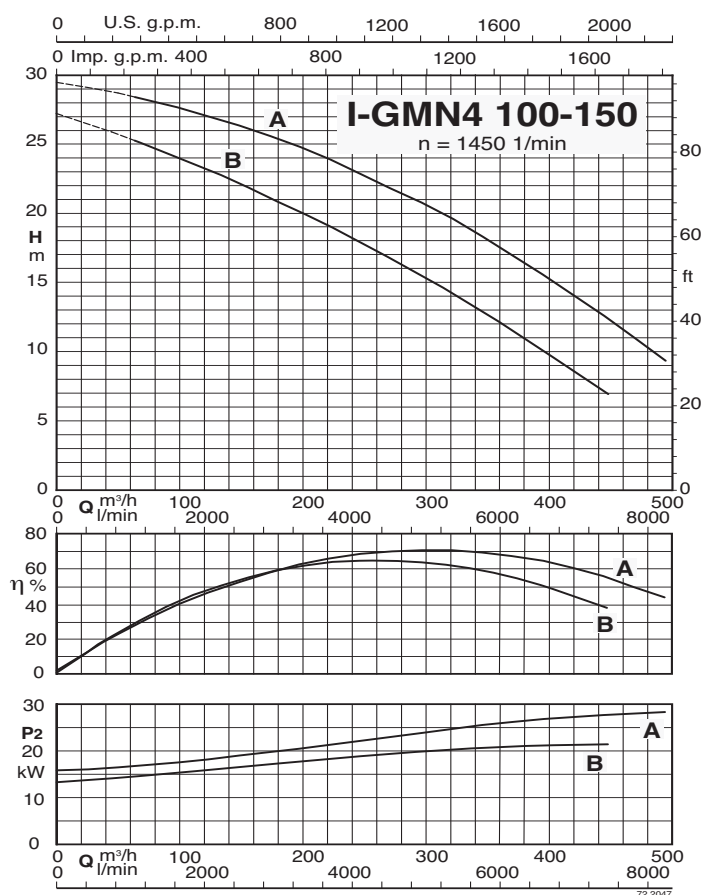
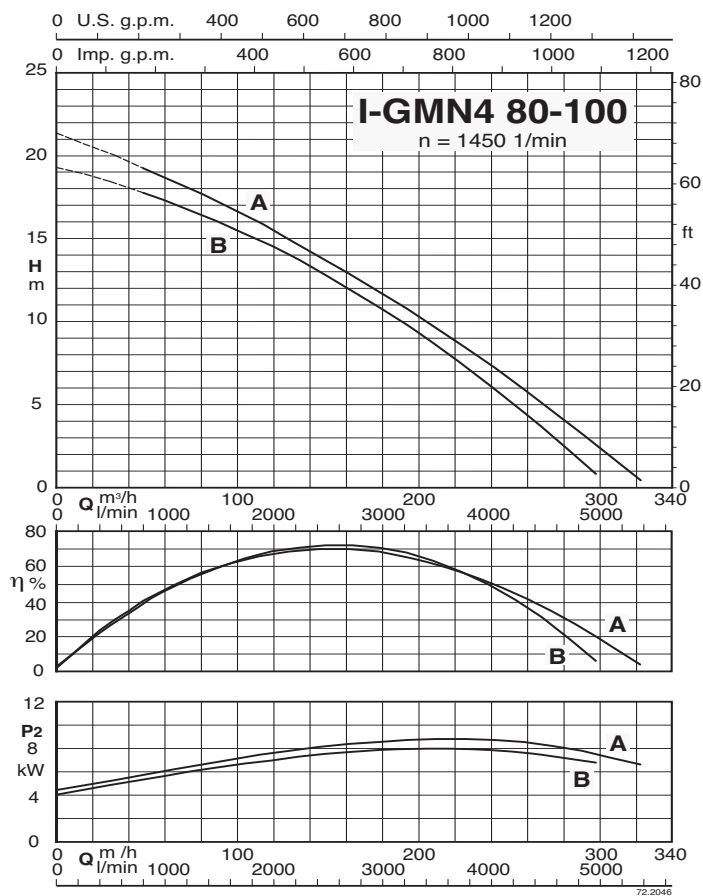
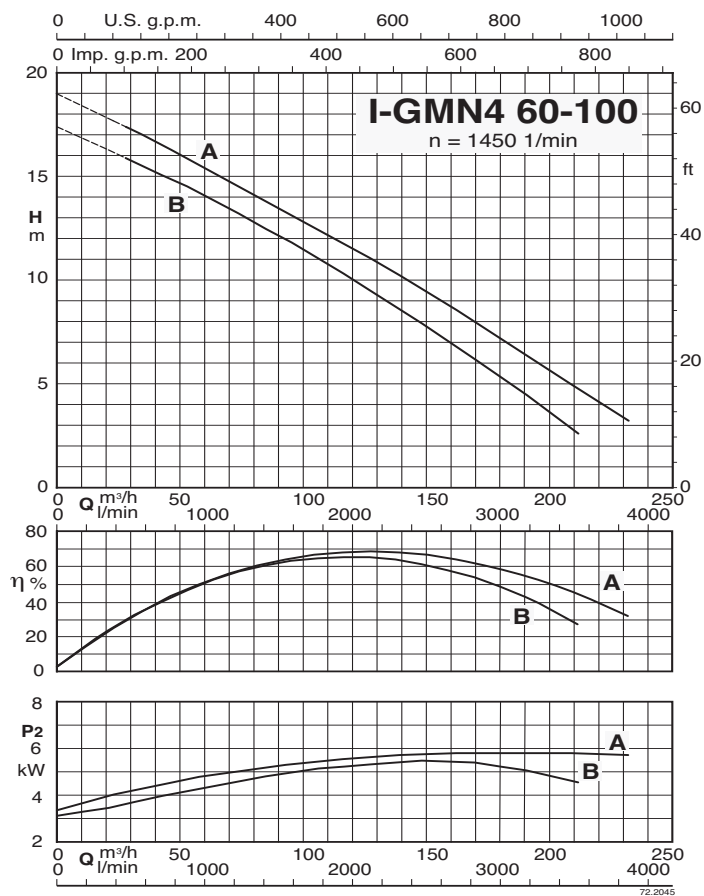
## Characteristic curves



**Characteristic curves**

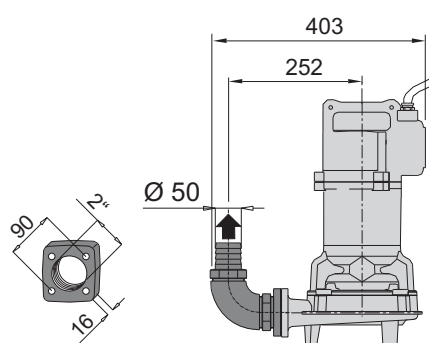
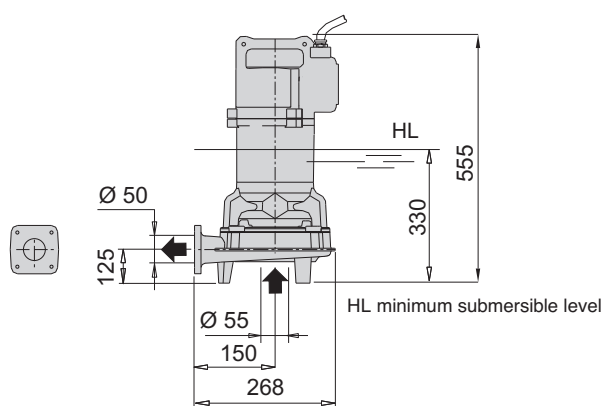


### Characteristic curves

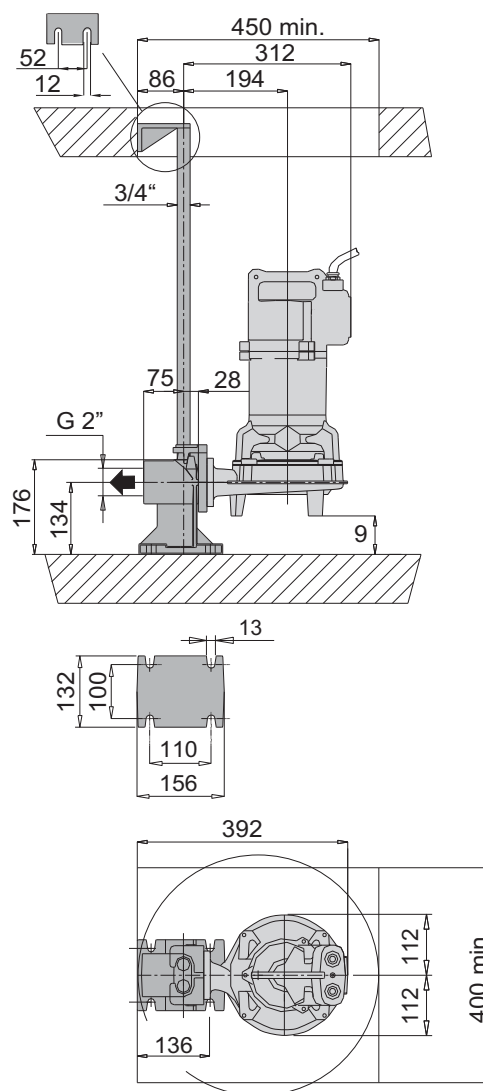


### Dimensions and weights

#### I-GMV 50-50



Version with threaded flange and 90° elbow



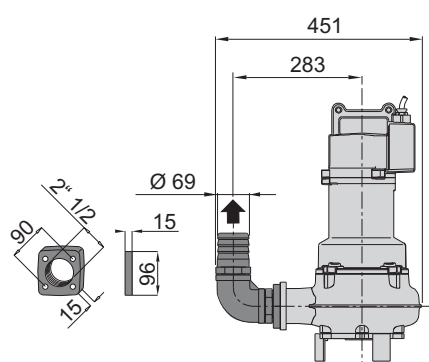
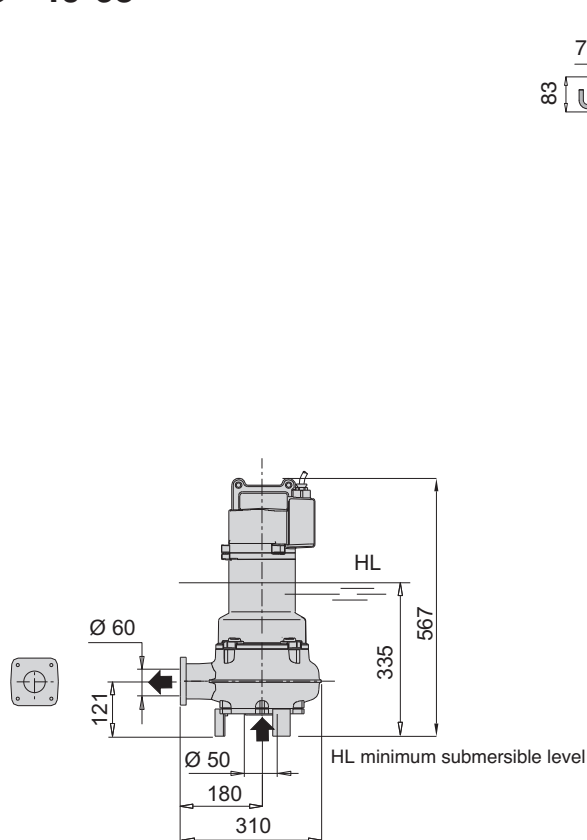
Version with duck foot coupling

| TYPE           | Weight<br>kg |
|----------------|--------------|
| I-GMV 50-50C   | 46           |
| I-GMV 50-50B/A |              |
| I-GMV 50-50A/A |              |

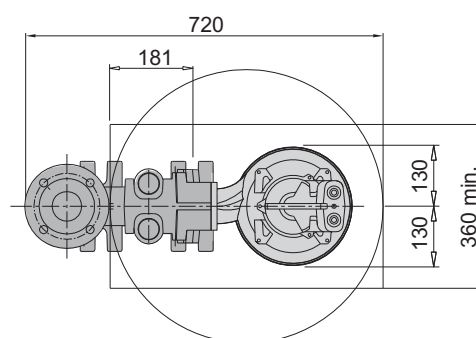
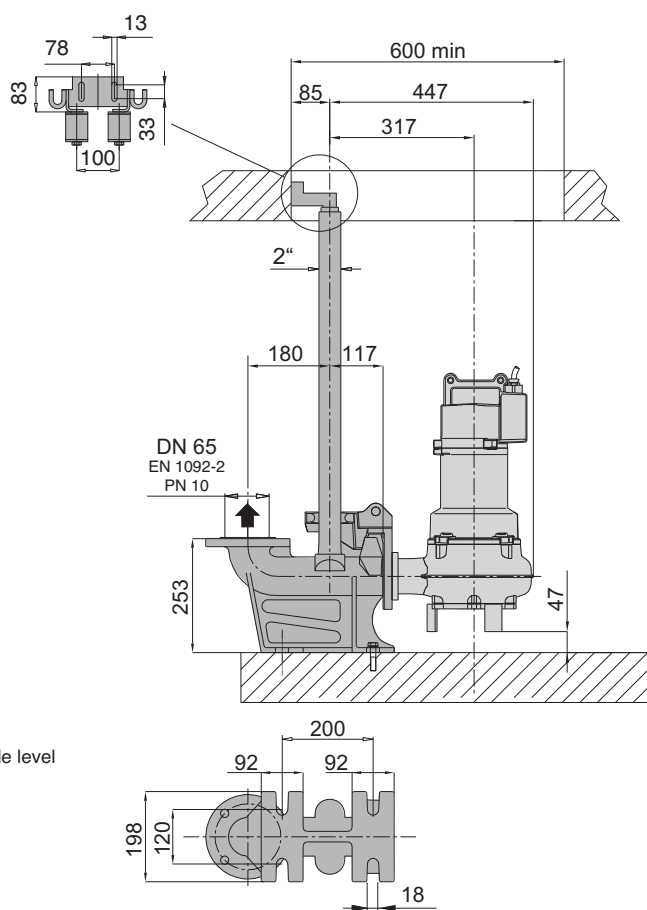
### Dimensions and weights

**I-GMV4 50-65**

**I-GMC 40-65**



Version with threaded flange and 90° elbow

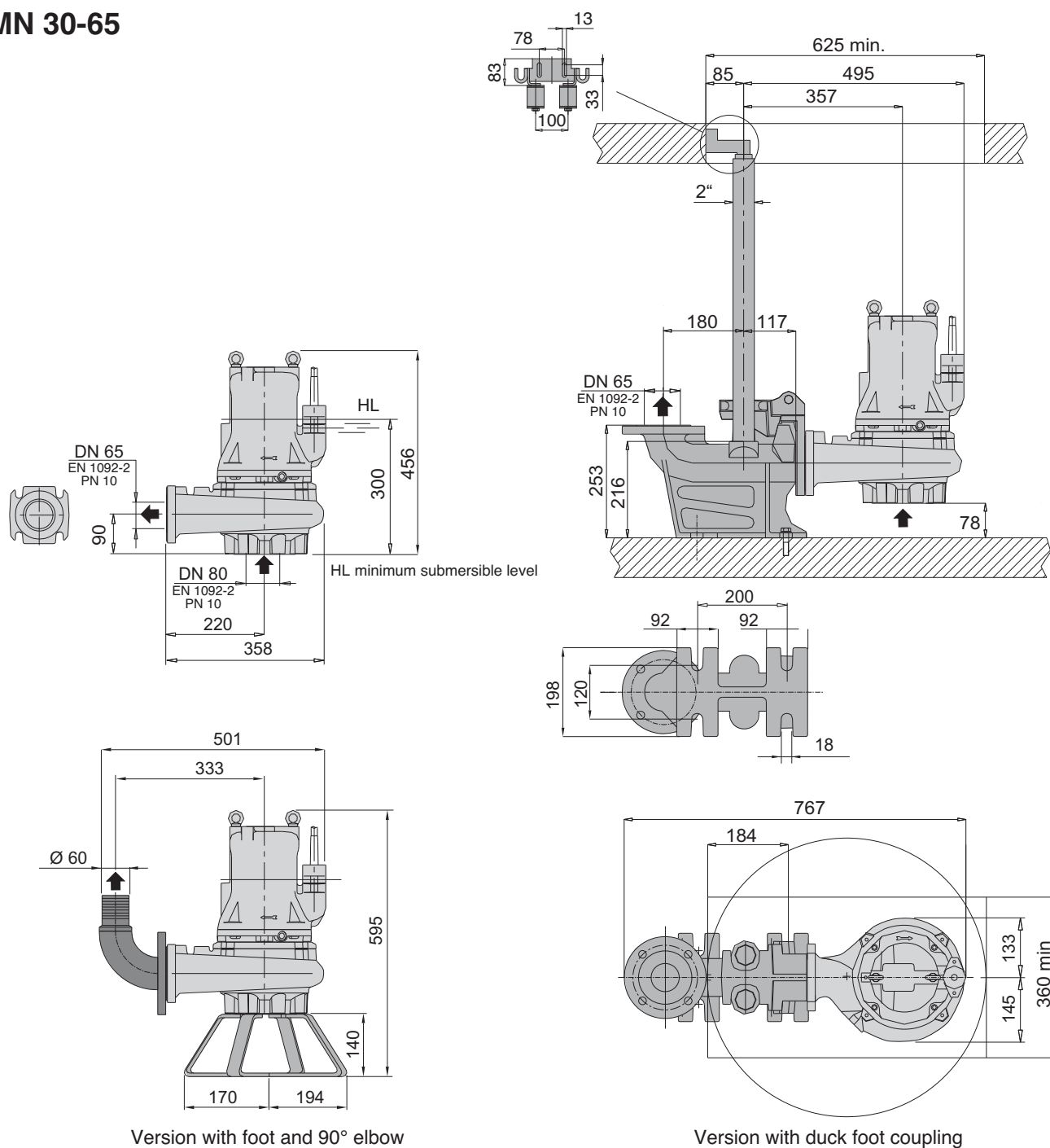


Version with duck foot coupling

| TYPE          | Weight<br>kg |
|---------------|--------------|
| I-GMV4 50-65C | 47           |
| I-GMV4 50-65B |              |
| I-GMV4 50-65A |              |
| I-GMC 40-65B  | 49           |
| I-GMC 40-65A  |              |

### Dimensions and weights

#### I-GMN 30-65



Version with foot and 90° elbow

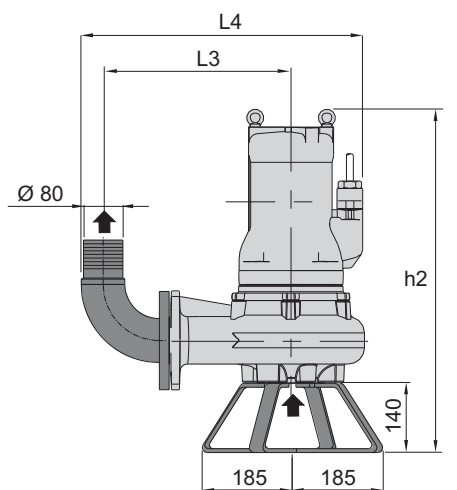
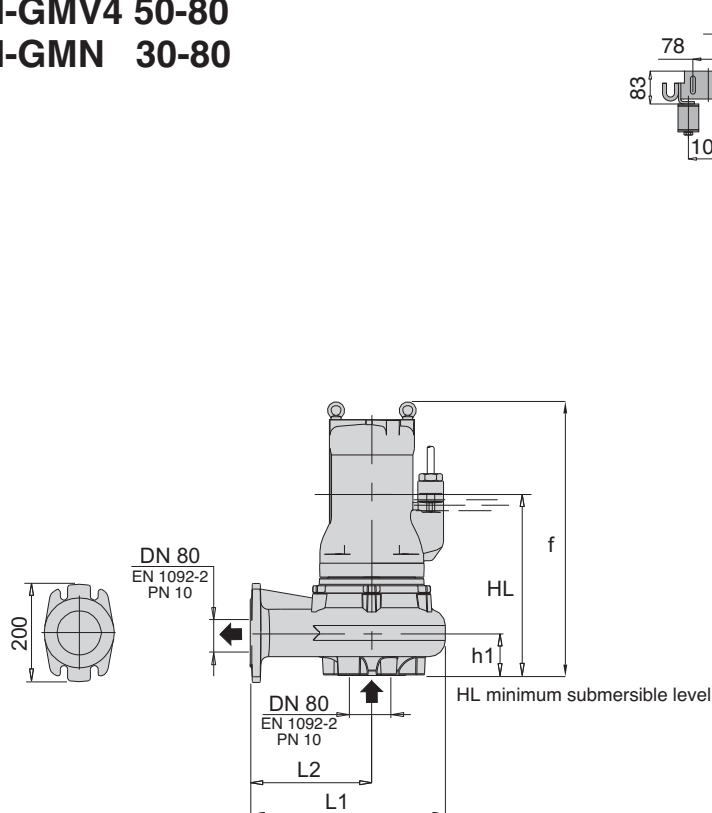
Version with duck foot coupling

| TYPE         | Weight<br>kg |
|--------------|--------------|
| I-GMN 30-65B | 60           |
| I-GMN 30-65A | 60           |

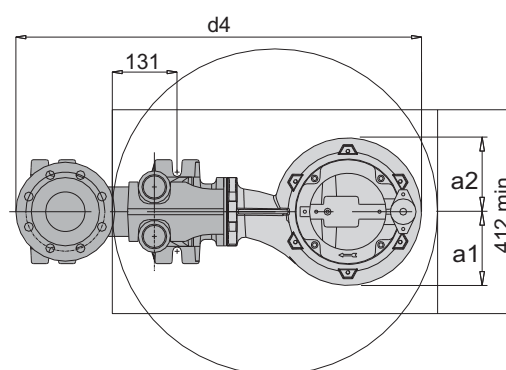
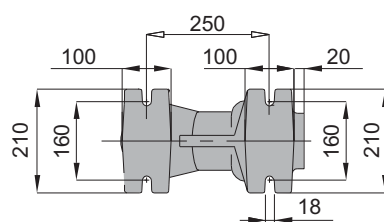
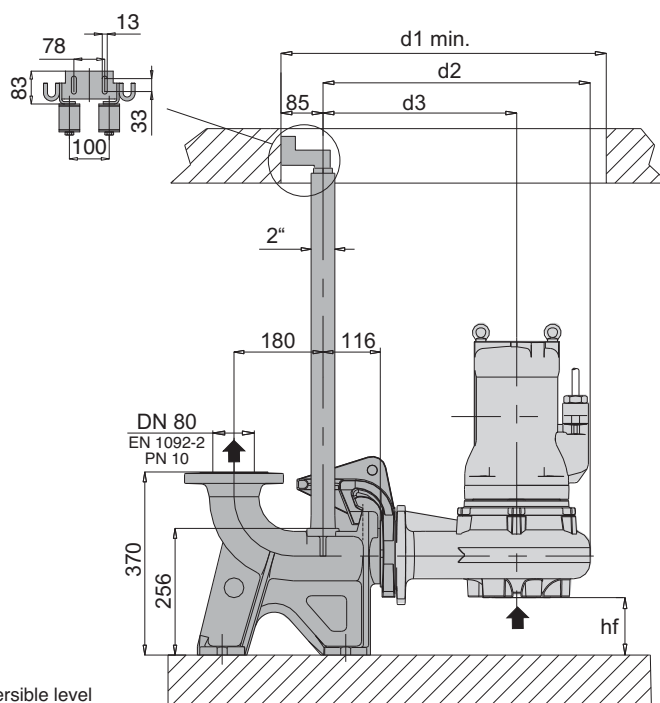
### Dimensions and weights

I-GMV4 50-80

I-GMN 30-80



Version with foot and 90° elbow



Version with duck foot coupling

| TYPE          | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |     |
|---------------|--------------------|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|
|               | DN1                | DN2 | f                | HL  | hf  | h1  | h2  | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  |              | L4  |
| I-GMV4 50-80B | 80                 | 80  | 519              | 363 | 84  | 116 | 659 | 136 | 157 | 658 | 511 | 366 | 791 | 365 | 220 | 355 | 544          | 67  |
| I-GMV4 50-80A |                    |     |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |
| I-GMN 30-80B  | 80                 | 80  | 515              | 330 | 110 | 90  | 655 | 133 | 145 | 700 | 511 | 366 | 791 | 365 | 220 | 355 | 544          | 83  |
| I-GMN 30-80A  |                    |     |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |              |     |
| I-GMN 30-80S  | 80                 | 80  | 767              | 438 | 132 | 68  | 917 | 165 | 165 | 700 | 571 | 386 | 851 | 405 | 220 | 362 | 590          | 170 |

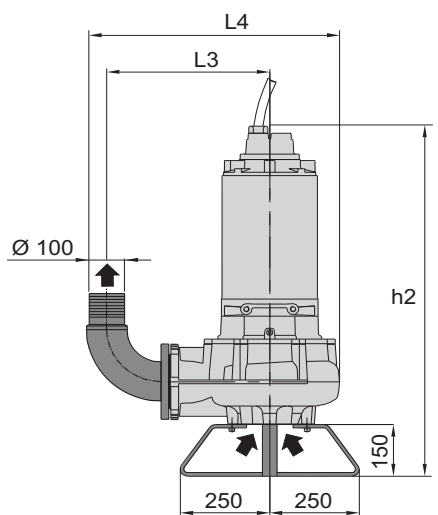
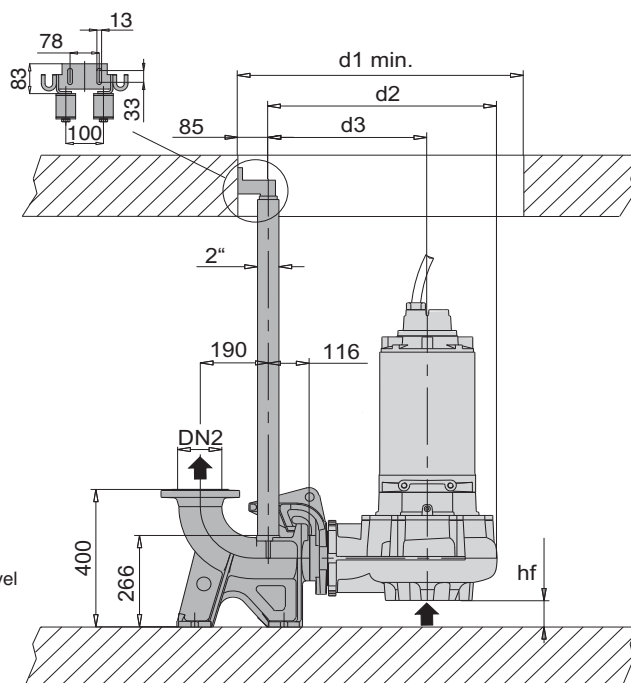
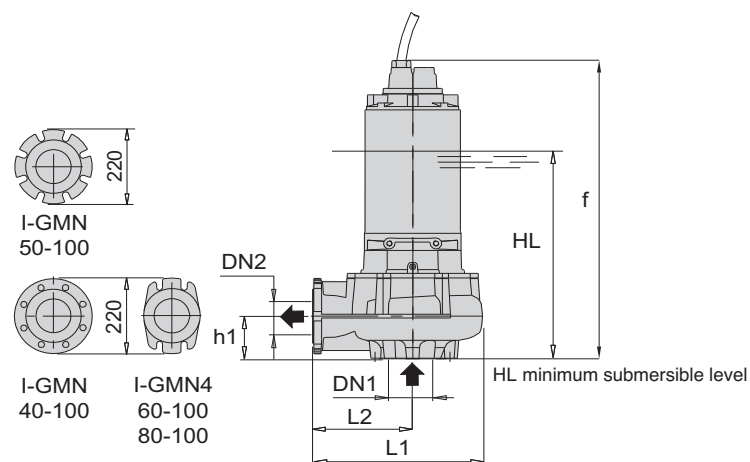
### Dimensions and weights

**I-GMN 40-100**

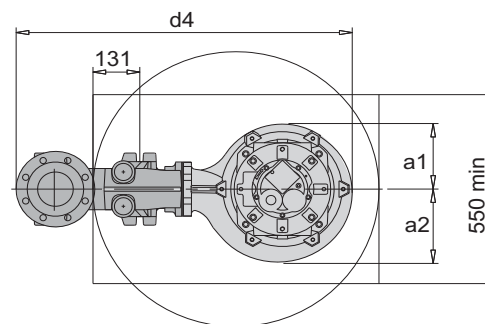
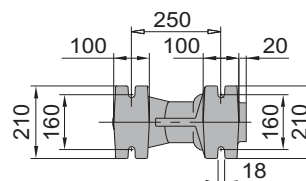
**I-GMN 50-100**

**I-GMN4 60-100**

**I-GMN4 80-100**



Version with foot and 90° elbow

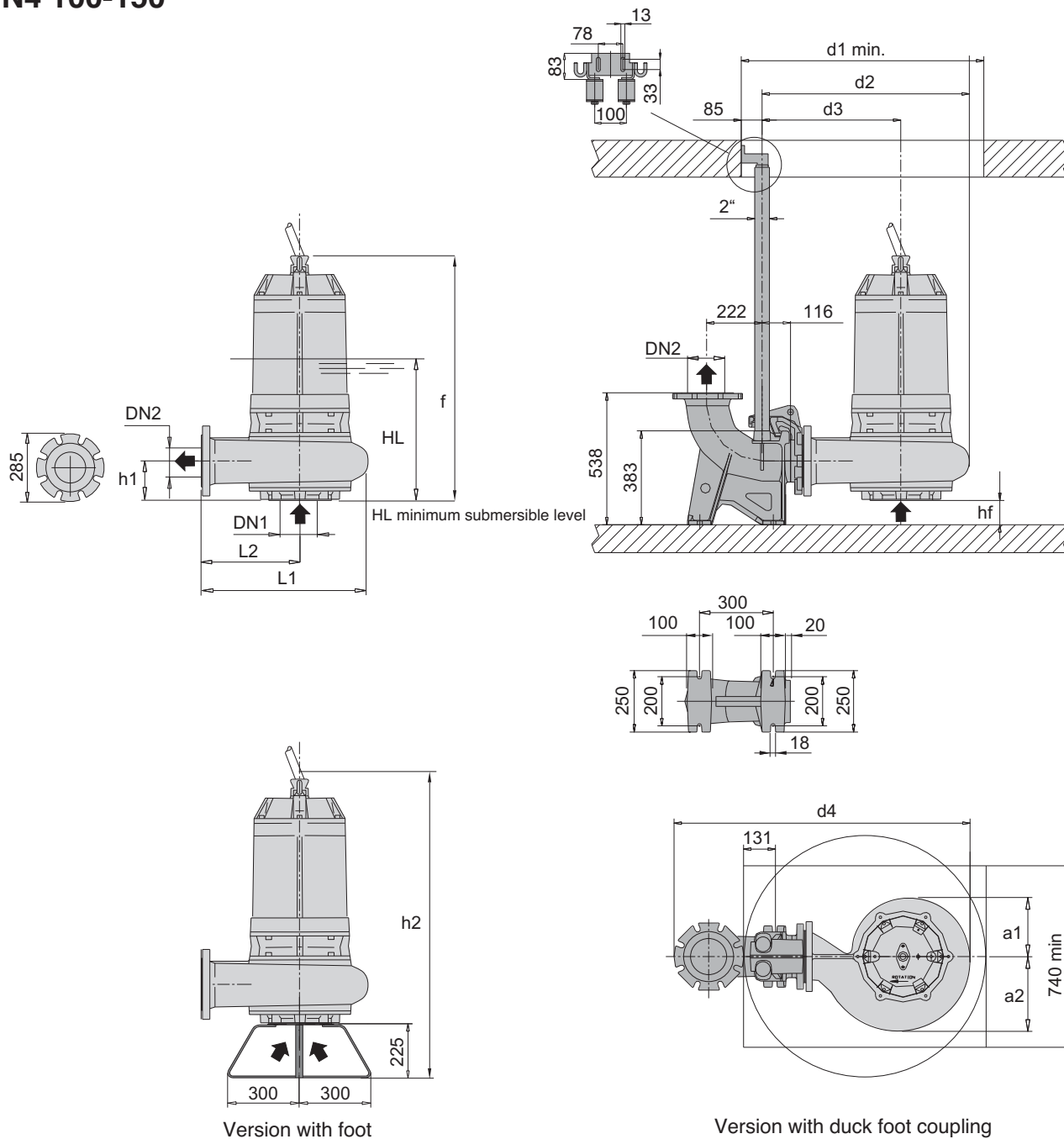


Version with duck foot coupling

| TYPE           | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |     |     |     |     |     | Weight<br>kg |
|----------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
|                | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |              |
| I-GMN 40-100D  | 125                | 100 | 845              | 478 | 127 | 73  | 995  | 168 | 184 | 750 | 628 | 441 | 928 | 467 | 280 | 449 | 694 | 210          |
| I-GMN 40-100C  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN 40-100B  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN 40-100S  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN 50-100C  | 125                | 100 | 1033             | 628 | 62  | 139 | 1183 | 180 | 231 | 850 | 673 | 466 | 973 | 507 | 300 | 474 | 738 | 364          |
| I-GMN 50-100B  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN 50-100A  |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN4 60-100B | 125                | 100 | 852              | 526 | 54  | 147 | 1002 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 456 | 706 | 167          |
| I-GMN4 60-100A |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |
| I-GMN4 80-100B | 125                | 100 | 921              | 570 | 53  | 147 | 1071 | 189 | 212 | 800 | 640 | 445 | 940 | 474 | 279 | 453 | 706 | 220          |
| I-GMN4 80-100A |                    |     |                  |     |     |     |      |     |     |     |     |     |     |     |     |     |     |              |

### Dimensions and weights

#### I-GMN4 100-150



| TYPE          | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |      |     |     |     |     |     |      |     |     |    |    |     | Weight<br>kg |
|---------------|--------------------|-----|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|----|----|-----|--------------|
|               | DN1                | DN2 | f                | HL  | hf  | h1  | h2   | a1  | a2  | d1  | d2  | d3  | d4   | L1  | L2  | L3 | L4 |     |              |
| GMN4 100-150B | 150                | 150 | 991              | 576 | 100 | 160 | 1216 | 235 | 305 | 990 | 931 | 566 | 1208 | 680 | 400 | -  | -  | 370 |              |
| GMN4 100-150A |                    |     | 1055             | 600 |     |     | 1293 |     |     |     |     |     |      |     |     |    |    | 405 |              |



### Construction

Submersible pumps, **B 10 bronze marine** version.

**B-GMV** with free-flow (vortex) impeller

**B-GMC** with single-channel impeller

**B-GMN** with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to 2,4 kW 2 poles).

Delivery connection DN 50-65-80

### Applications

Suitable to pump industrial waste water in chemical, and process industries, agricultural and marine areas.

Solid passage from 30 to 50 mm

### Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length).

Continuous duty (with pump immersed at minimum level).

### Main materials

Pump casing, Motor casing, Motor cover: B 10 bronze marine

Impeller: stainless steel AISI 316

Motor shaft: stainless steel AISI 316L

Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to 2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

### Motor

2 or 4 poles induction, 50Hz

Three-phase version: 400V  $\pm$  10%, up to 3,2 kW

400/690V  $\pm$  10%, over 3,2 kW

Insulation class: H

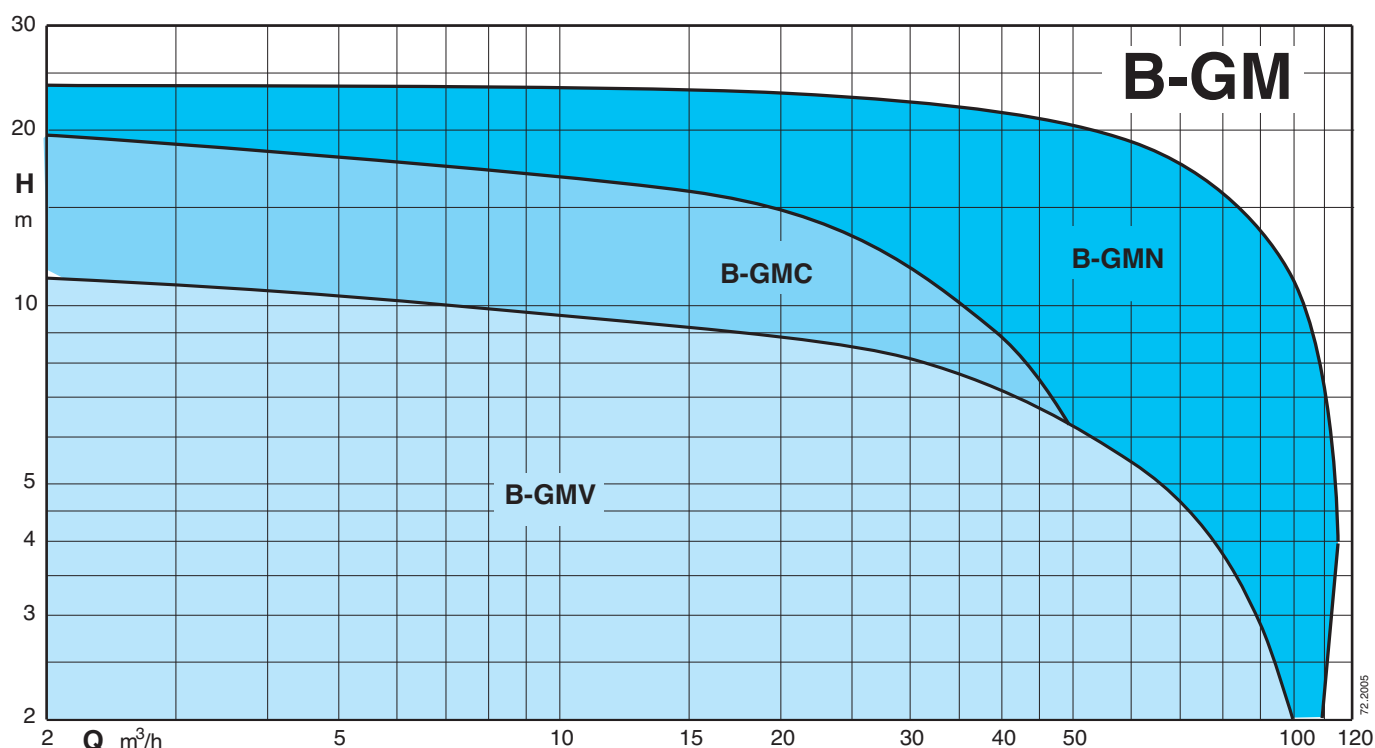
Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m

Other models: contact our sale office

### Coverage chart



### Technical data

| TYPE           | P <sub>2</sub><br>kW | I <sub>N</sub><br>A | Power Supply | r.p.m. | Starting | DN<br>mm | Free<br>passage<br>Ø mm | Thermal<br>protector | Humidity<br>probe | <br>ATEX<br>Eex |
|----------------|----------------------|---------------------|--------------|--------|----------|----------|-------------------------|----------------------|-------------------|----------------------------------------------------------------------------------------------------|
| B-GMV 50-50C   | 1,4                  | 3,5                 | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV 50-50B/A | 1,4                  | 3,5                 | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV 50-50A/A | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 50       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV4 50-65C  | 1                    | 3                   | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV4 50-65B  | 1                    | 3                   | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV4 50-65A  | 1,3                  | 3,5                 | 3~ 400V      | 1450   | D.O.L.   | 65       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV4 50-80B  | 2,3                  | 5                   | 3~ 400V      | 1450   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMV4 50-80A  | 2,8                  | 6,5                 | 3~ 400V      | 1450   | D.O.L.   | 80       | 50                      | NO                   | NO                | ✓                                                                                                  |
| B-GMC 40-65B   | 2,4                  | 5                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓                                                                                                  |
| B-GMC 40-65A   | 2,9                  | 6                   | 3~ 400V      | 2850   | D.O.L.   | 65       | 40                      | NO                   | NO                | ✓                                                                                                  |
| B-GMN 30-65B   | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| B-GMN 30-65A   | 3,2                  | 6,5                 | 3~ 400V      | 2850   | D.O.L.   | 65       | 30                      | NO                   | NO                | ✓                                                                                                  |
| B-GMN 30-80B   | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |
| B-GMN 30-80A   | 5,7                  | 12,5                | 3~ 400/690V  | 2850   | Y/Δ      | 80       | 30                      | ●                    | ●                 | ✓                                                                                                  |

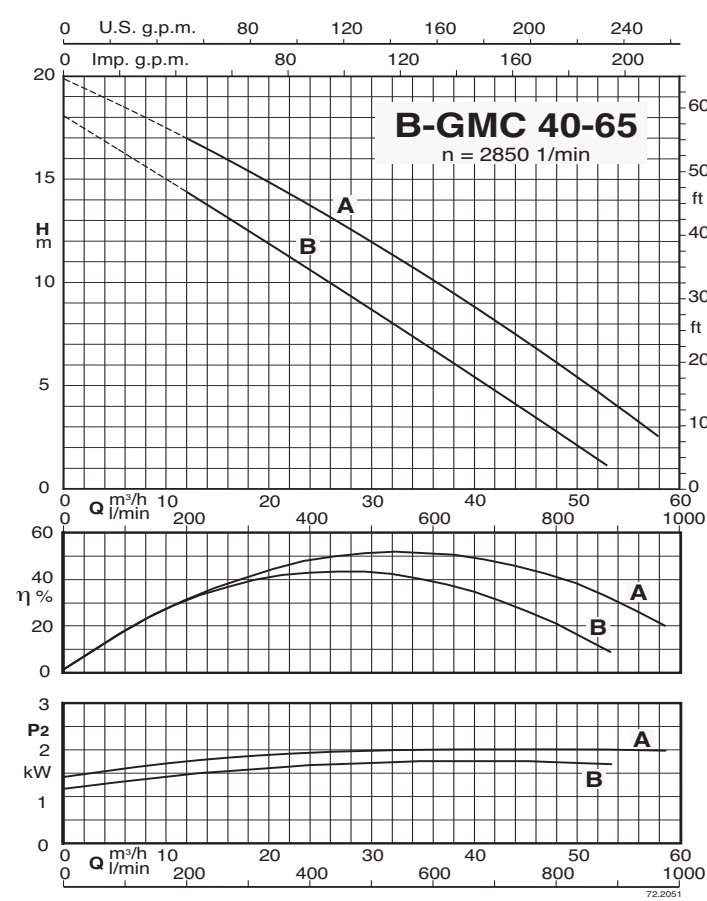
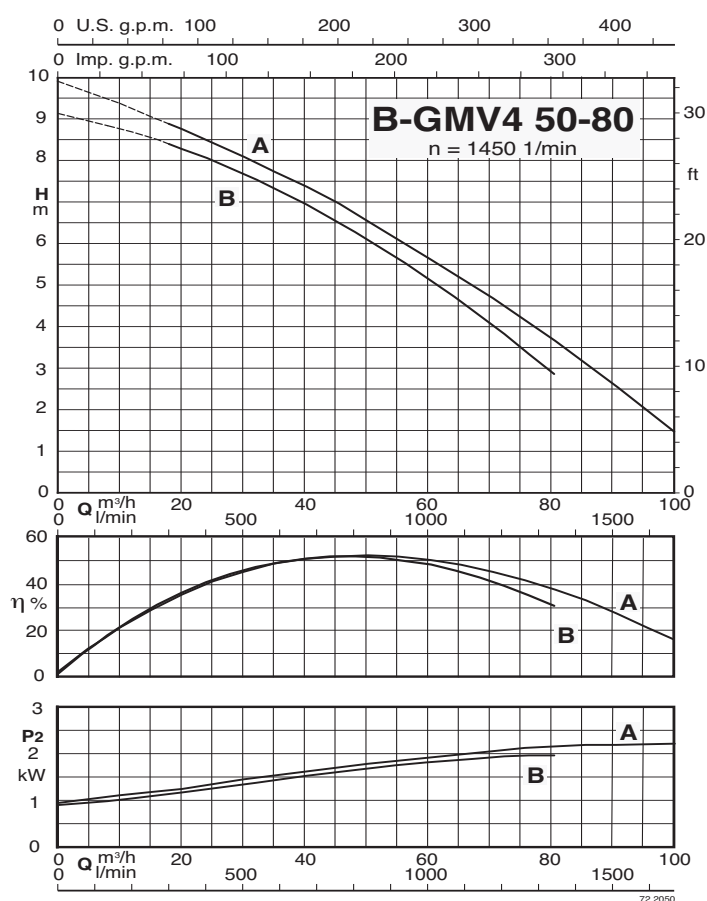
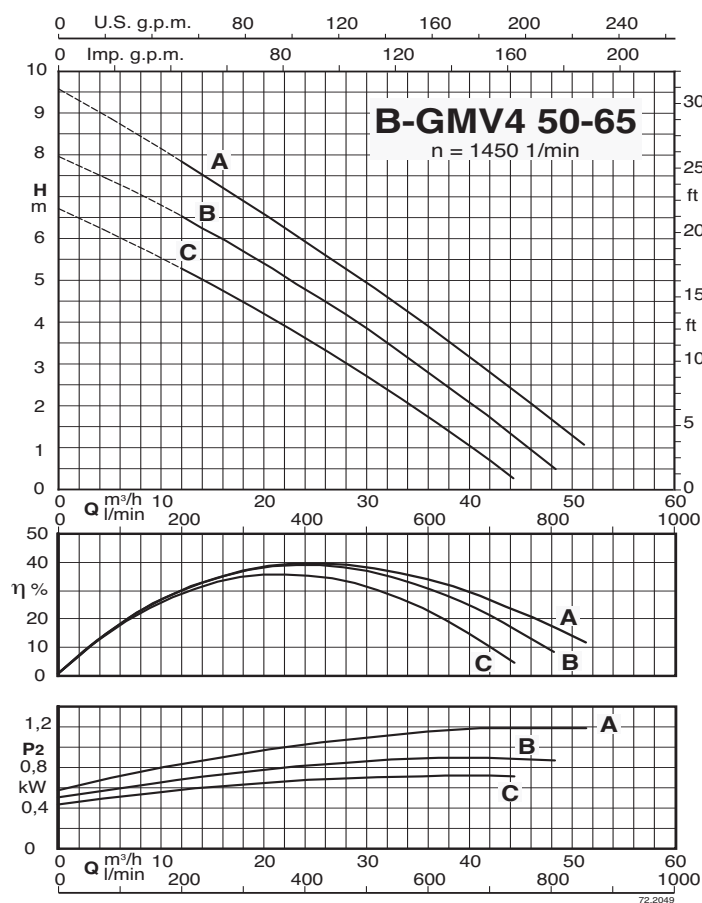
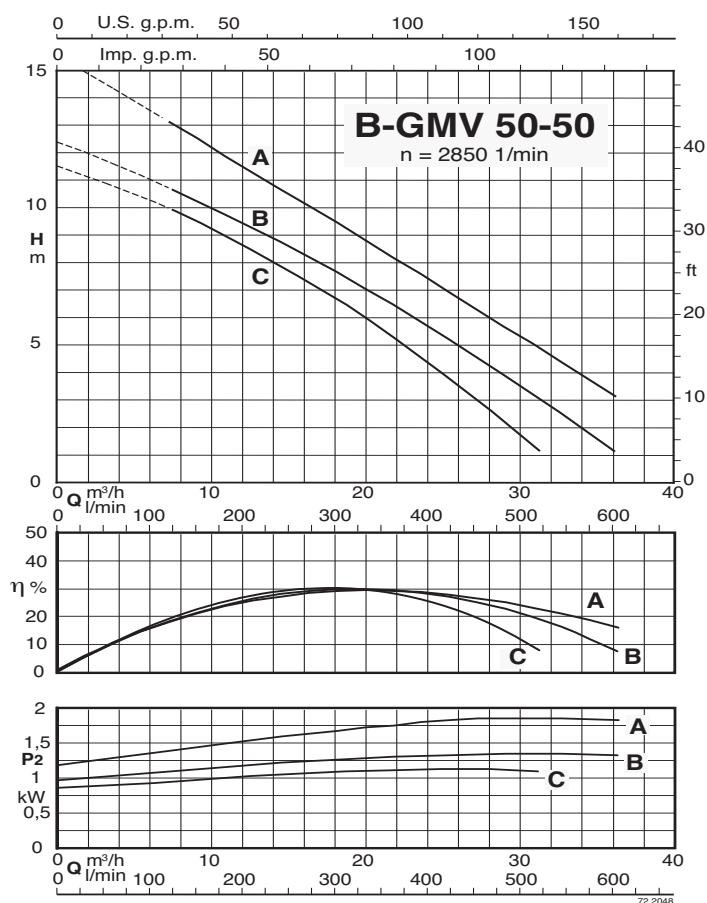
P<sub>2</sub> Rated power output

I<sub>N</sub> Rated current

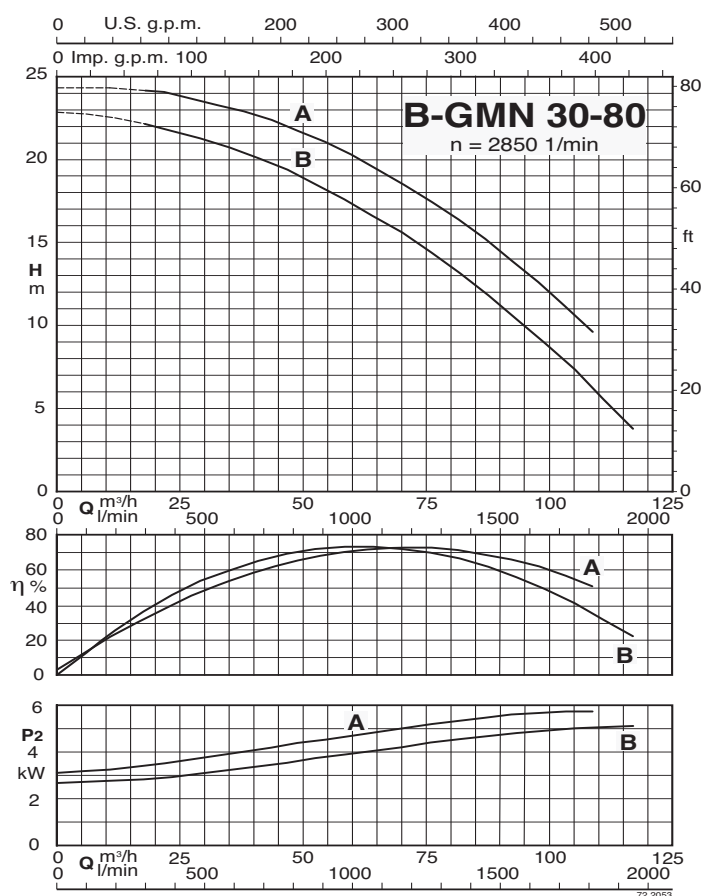
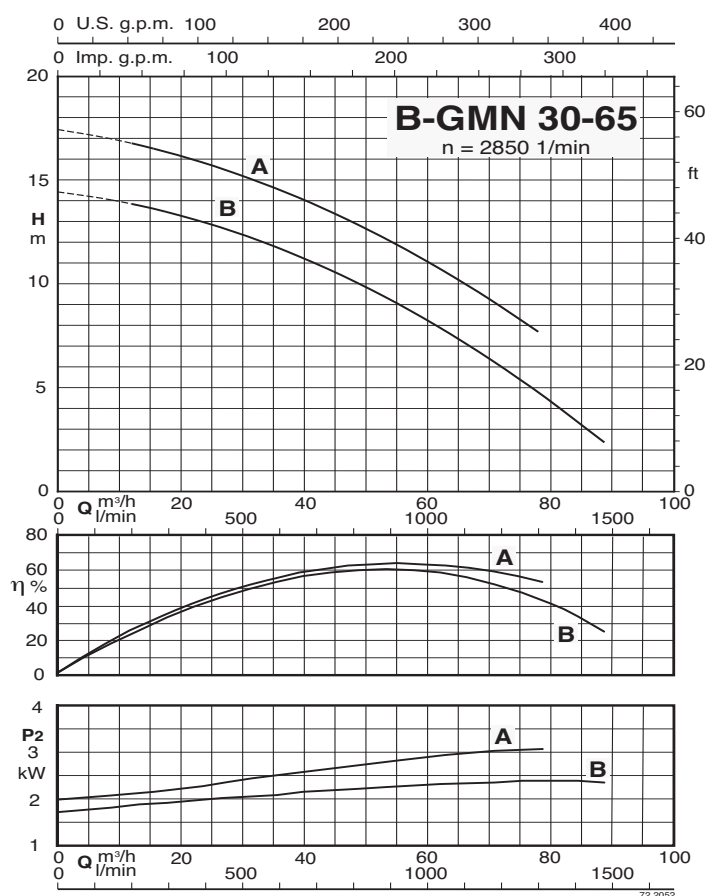
● Standard

✓ ATEX Eex Version on demand

### Characteristic curves

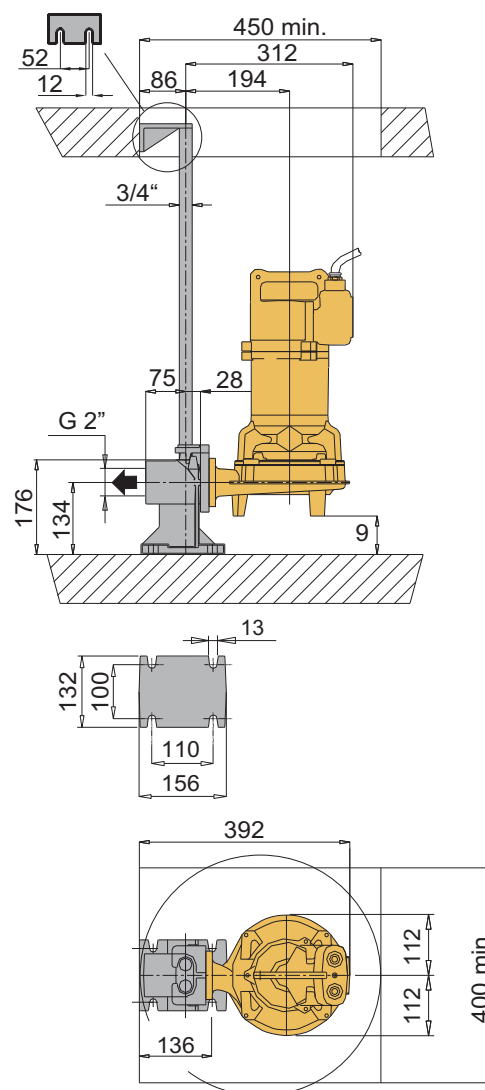
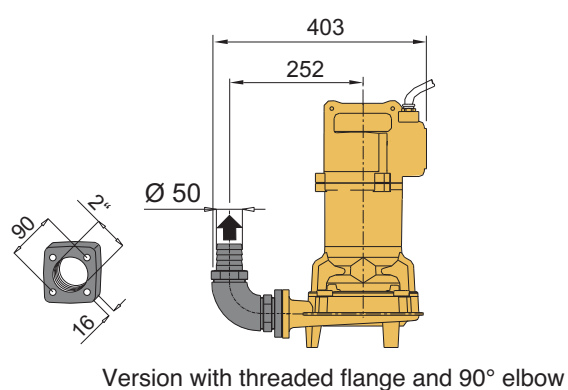
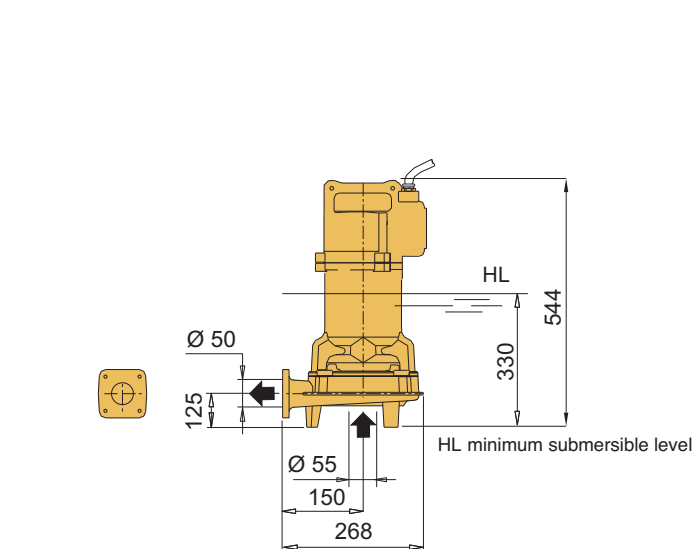


### Characteristic curves



### Dimensions and weights

#### B-GMV 50-50

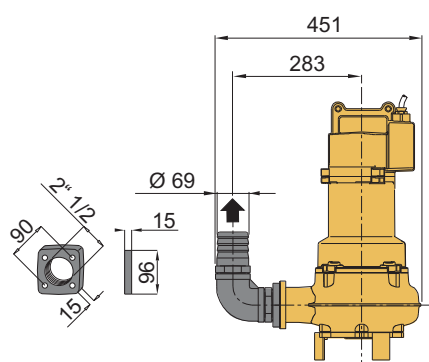
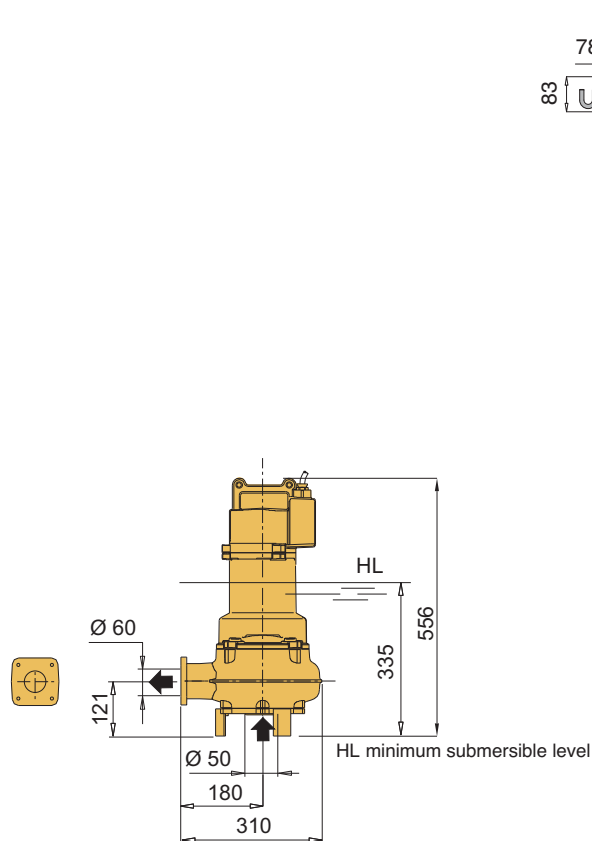


| TYPE           | Weight<br>kg |
|----------------|--------------|
| B-GMV 50-50C   | 48           |
| B-GMV 50-50B/A |              |
| B-GMV 50-50A/A |              |

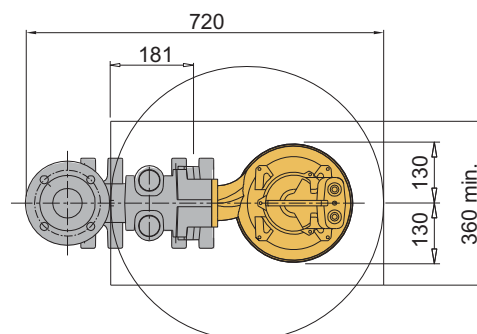
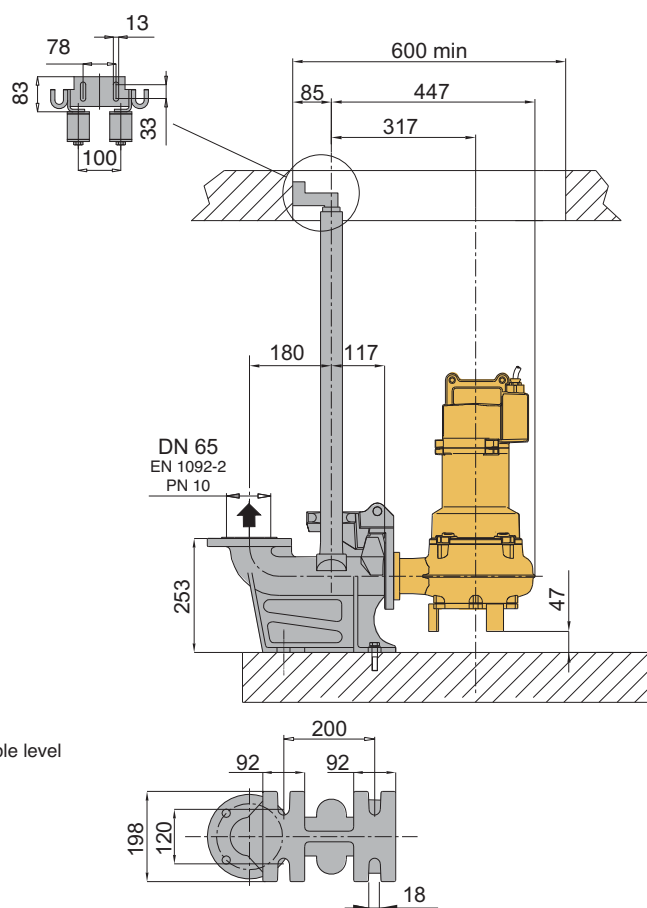
### Dimensions and weights

**B-GMV4 50-65**

**B-GMC 40-65**



Version with threaded flange and 90° elbow

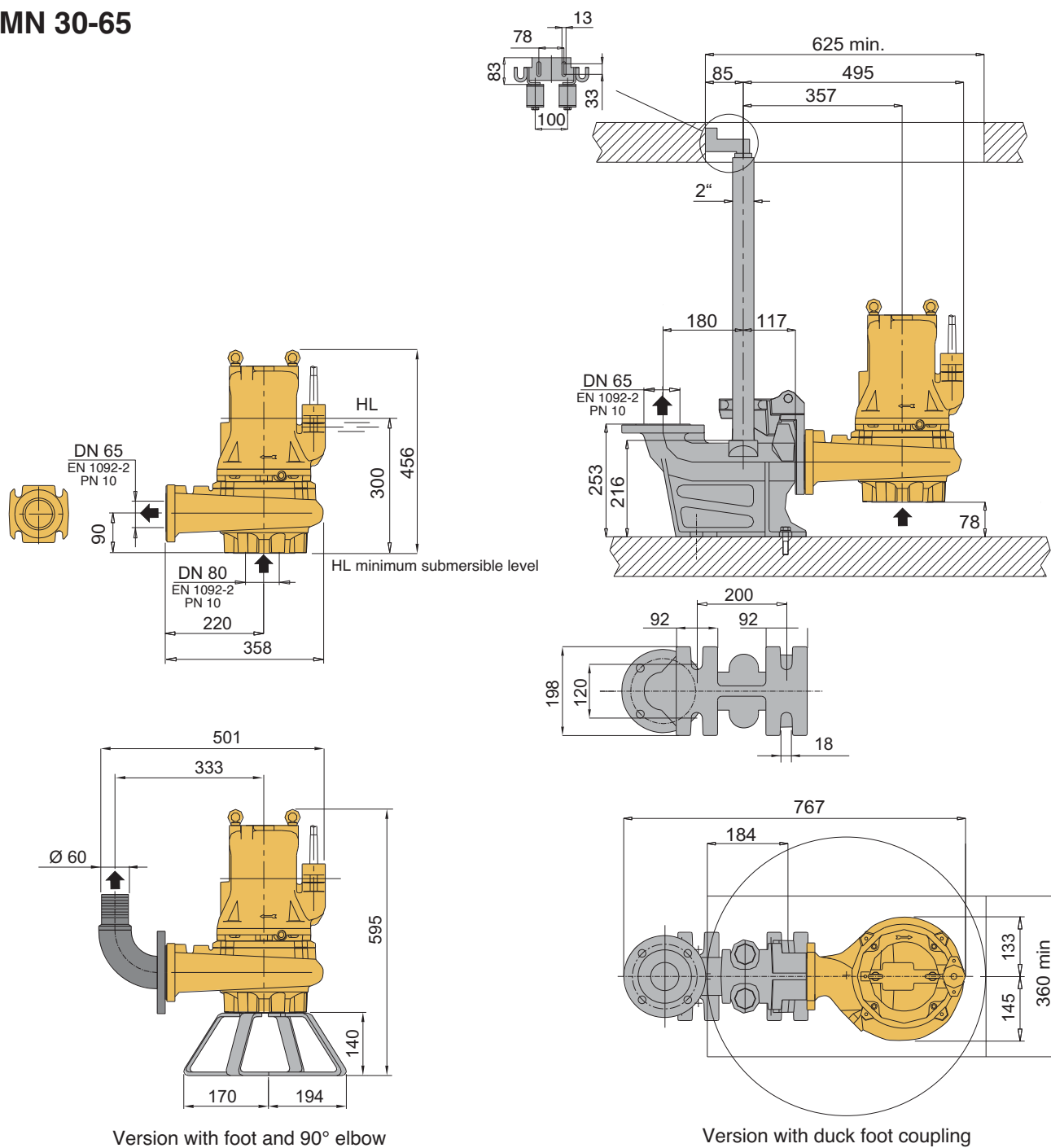


Version with duck foot coupling

| TYPE          | Weight<br>kg |
|---------------|--------------|
| B-GMV4 50-65C | 48           |
| B-GMV4 50-65B |              |
| B-GMV4 50-65A |              |
| B-GMC 40-65B  | 50           |
| B-GMC 40-65A  |              |

### Dimensions and weights

#### B-GMN 30-65

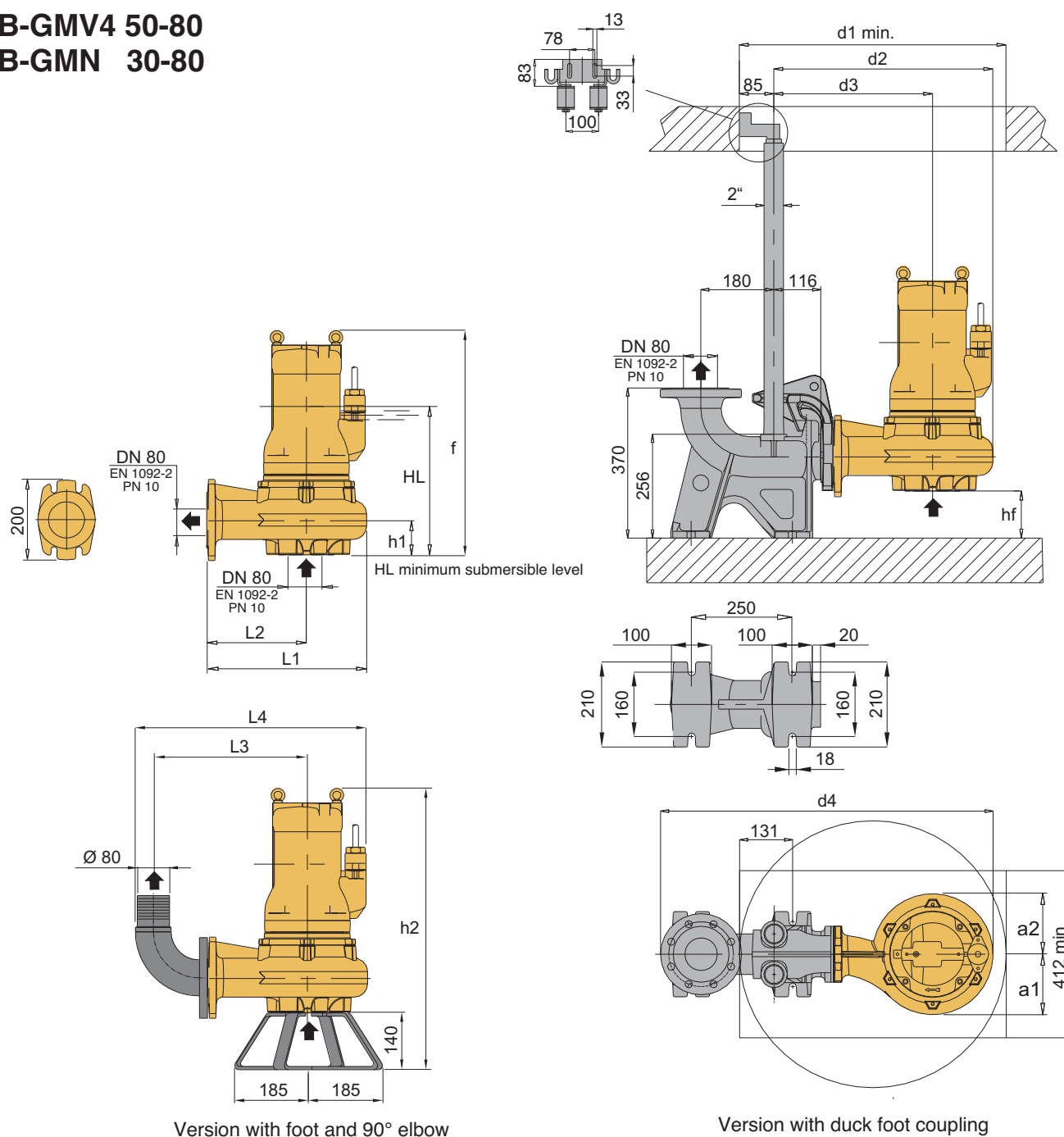


| TYPE         | Weight<br>kg |
|--------------|--------------|
| B-GMN 30-65B | 65           |
| B-GMN 30-65A |              |

### Dimensions and weights

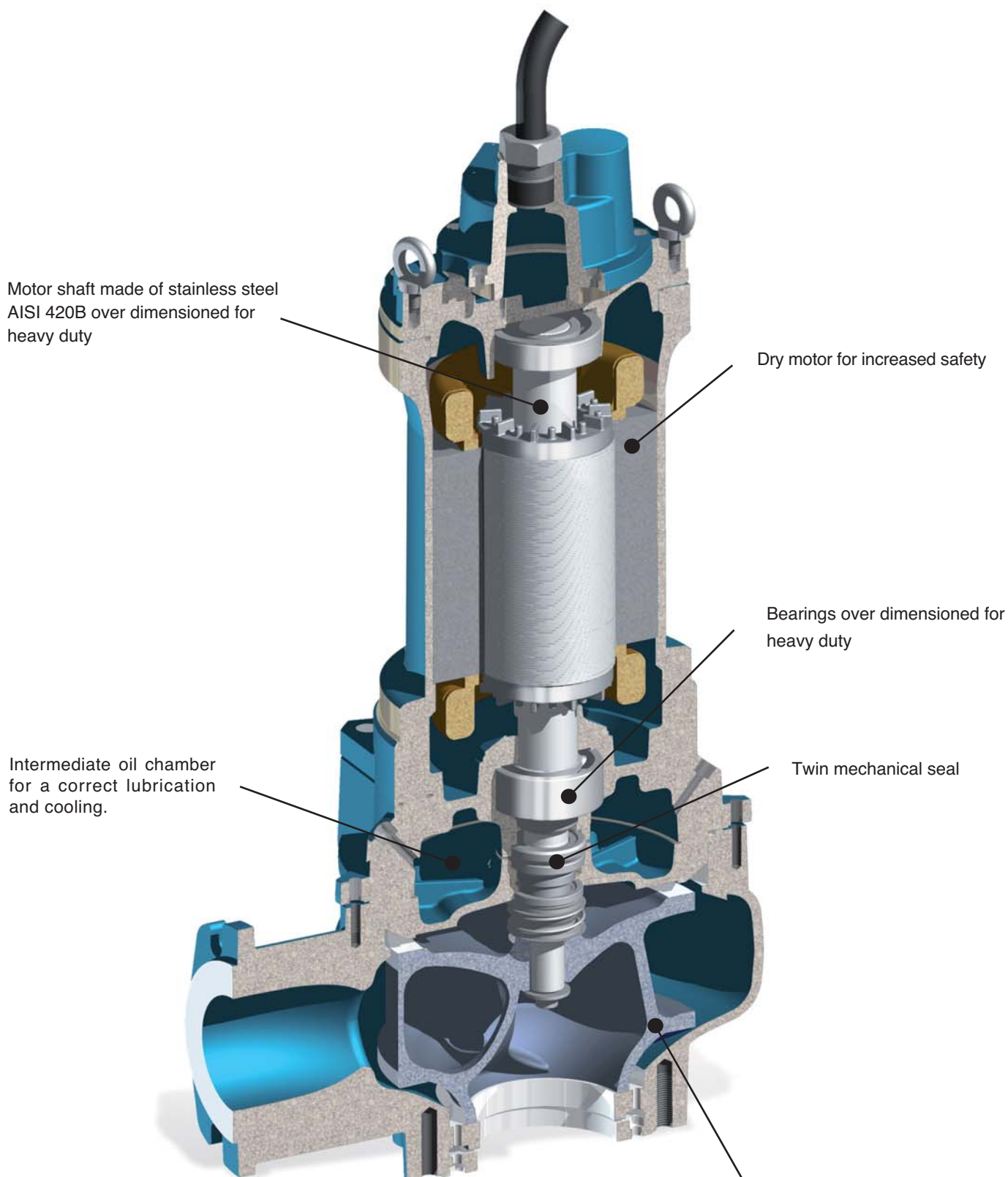
**B-GMV4 50-80**

**B-GMN 30-80**

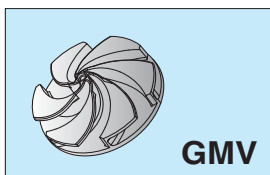


| TYPE          | EN 1092-2<br>PN 10 |     | Dimensions<br>mm |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    | Weight<br>kg |
|---------------|--------------------|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--------------|
|               | DN1                | DN2 | f                | HL  | hf  | h1  | h2  | a1  | a2  | d1  | d2  | d3  | d4  | L1  | L2  | L3  | L4  |    |              |
| B-GMV4 50-80B | 80                 | 80  | 519              | 363 | 84  | 116 | 659 | 136 | 157 | 658 | 511 | 366 | 791 | 365 | 220 | 355 | 544 | 73 |              |
| B-GMV4 50-80A |                    |     |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |              |
| B-GMN 30-80B  | 80                 | 80  | 515              | 330 | 110 | 90  | 655 | 133 | 145 | 700 | 511 | 366 | 791 | 365 | 220 | 355 | 544 | 90 |              |
| B-GMN 30-80A  |                    |     |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |              |

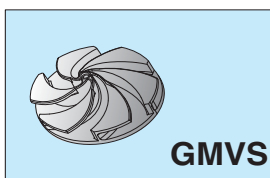
### Features



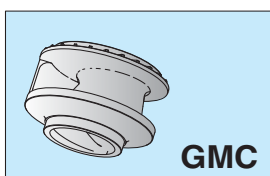
### THE IMPELLERS



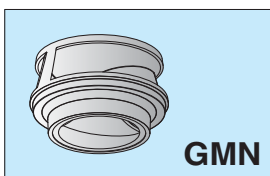
**Vortex impeller** suitable for pumping liquids containing large solids and/or fibrous materials.  
**Applications:** urban sewerage systems, animal breeding plants.



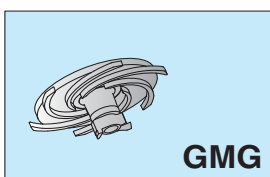
**Sand Vortex Water Impeller** in Polyurethane with a stainless steel core.  
**Applications:** in plants with an high sand presence, in marble work companies, in the ceramic industry, crystals machining or industrial processes where there's presence of abrasives liquids.



**Single channel impeller**, for liquids containing fibrous materials and/or suspended solids.  
**Applications:** purification plants, tanneries, animal breeding plants.

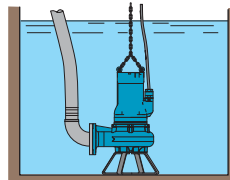


**Closed multi-channel impeller**, for clean liquids or light solids without filamentous materials.  
**Applications:** large drainage systems, purification plants.

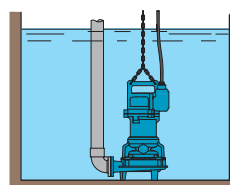


**Multi-blade suction impeller with grinder** constructed in stainless steel AISI 440, particularly suitable as a grinder for paper or textile materials.  
**Applications:** clearance of waste waters originating from service stations, residential communities, camping sites, etc..

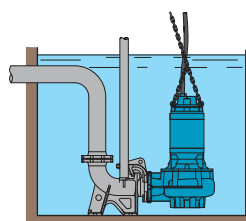
### THE STANDARD INSTALLATIONS



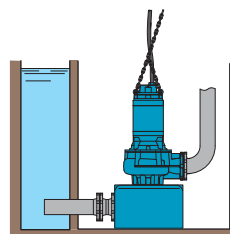
**A** Mobile and emergency installation with x-foot support



**B** Free installation and threaded elbow

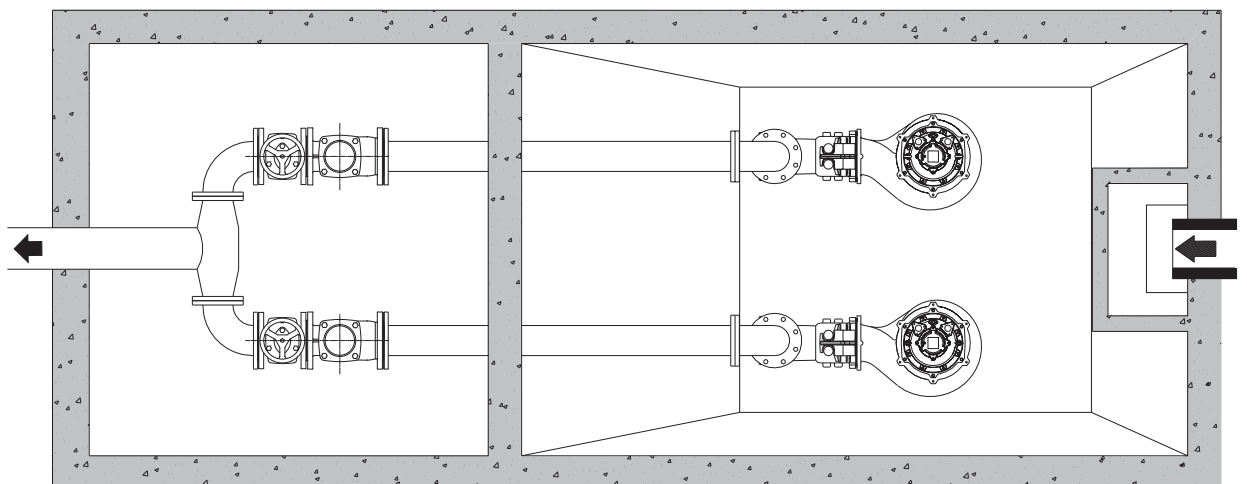
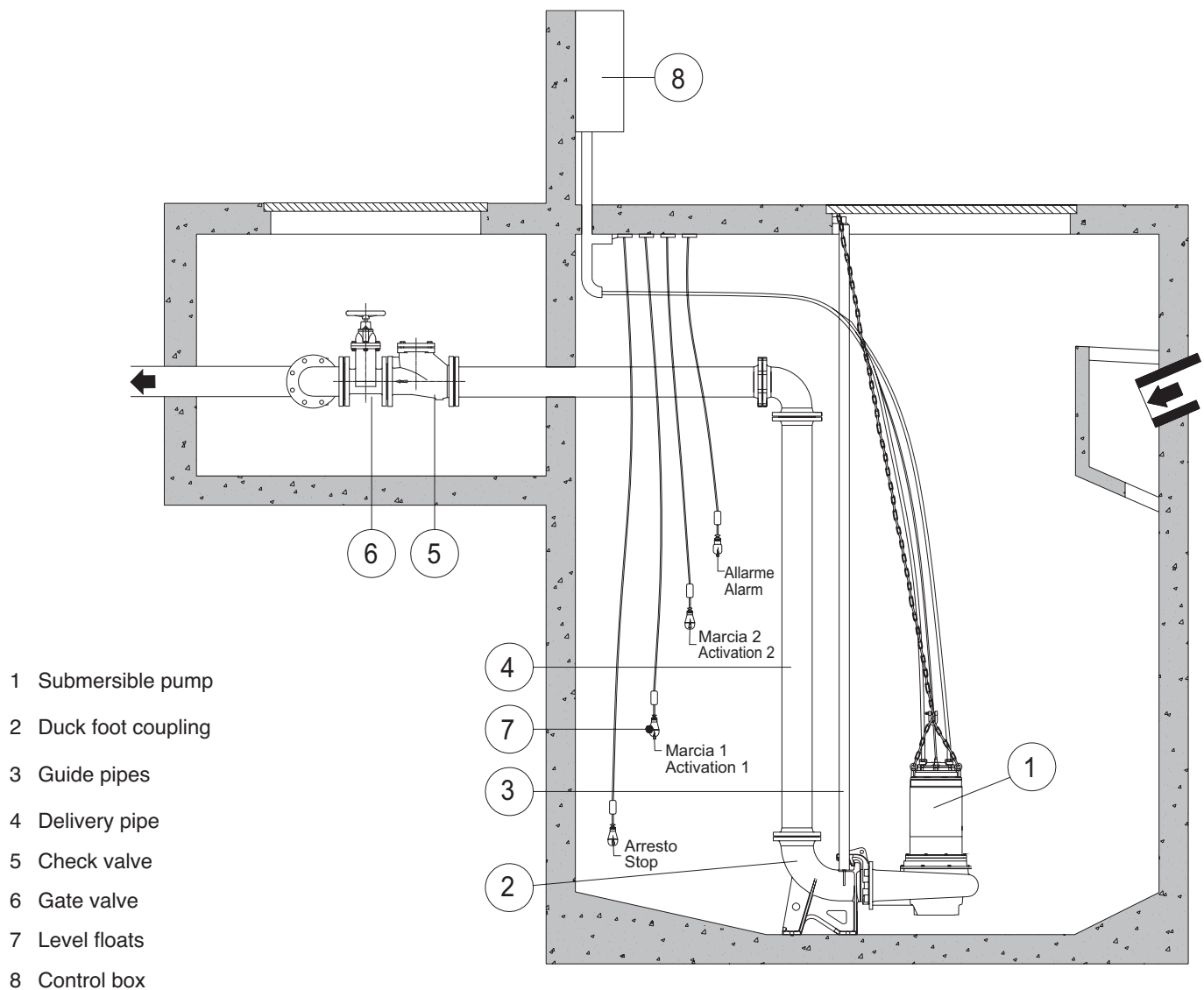


**C** Fixed installation with automatic coupling feet and guide rails.



**D** Dry pit installation, with x-foot rest and suction bend.  
Pump equipped with cooling jacket.

### Installation with duck foot coupling



### Accessories

#### Non-return ball valves

#### Construction

Non-return self-cleaning ball valves, suitable for dirty and viscous liquids, sewage water.

#### Operating conditions

Working temperature from -10°C up to +80°C

Rated pressure: 10 bar

Vertical or horizontal installation

#### Materials

Valve body: Cast iron EN-GJL-250

Cover: Cast iron EN-GJL-250

Ball: Resin for threaded VNRP

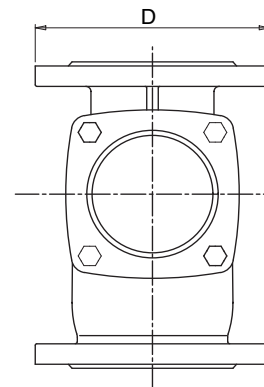
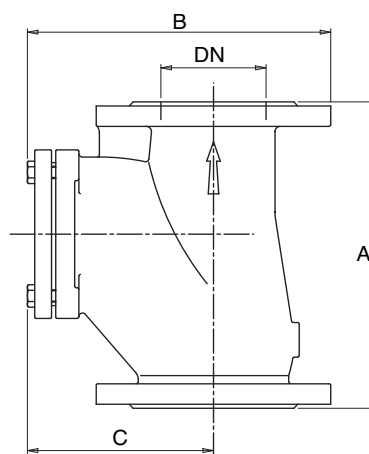
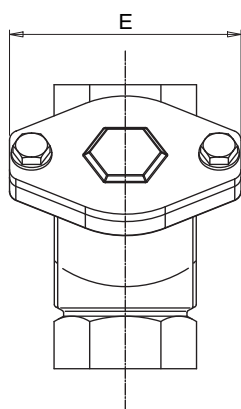
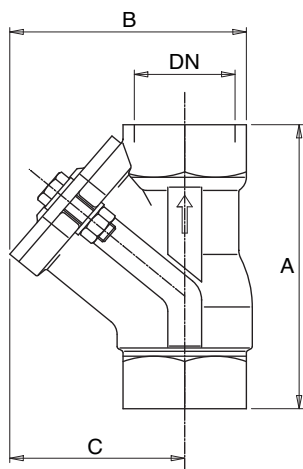
Resin + nitril for VNRP DN 50-100

Cast iron + nitril for VNRP DN 125-250

Screws: SS AISI 304

Joint: nitril

#### Dimensions



| TYPE              | DN<br>mm | mm  |     |     |     | Weight<br>kg |
|-------------------|----------|-----|-----|-----|-----|--------------|
|                   |          | A   | B   | C   | E   |              |
| <b>VNRP 1 1/4</b> | 1" 1/4   | 132 | 111 | 83  | 108 | 1,9          |
| <b>VNRP 1 1/2</b> | 1" 1/2   | 145 | 122 | 90  | 120 | 2,4          |
| <b>VNRP 2</b>     | 2"       | 173 | 145 | 110 | 135 | 3,6          |
| <b>VNRP 2 1/2</b> | 2" 1/2   | 200 | 175 | 130 | 155 | 6,5          |

| TYPE            | DN<br>mm | mm  |     |     |     | Weight<br>kg |
|-----------------|----------|-----|-----|-----|-----|--------------|
|                 |          | A   | B   | C   | D   |              |
| <b>VNRP 50</b>  | 50       | 182 | 192 | 120 | 165 | 9,5          |
| <b>VNRP 65</b>  | 65       | 204 | 215 | 124 | 185 | 14           |
| <b>VNRP 80</b>  | 80       | 260 | 250 | 150 | 200 | 19,5         |
| <b>VNRP 100</b> | 100      | 300 | 290 | 180 | 220 | 23,5         |
| <b>VNRP 125</b> | 125      | 350 | 340 | 215 | 250 | 36           |
| <b>VNRP 150</b> | 150      | 400 | 388 | 245 | 285 | 38,5         |
| <b>VNRP 200</b> | 200      | 500 | 480 | 310 | 340 | 69           |