GM

Submersible Pumps

calpeda®

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 m³/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.

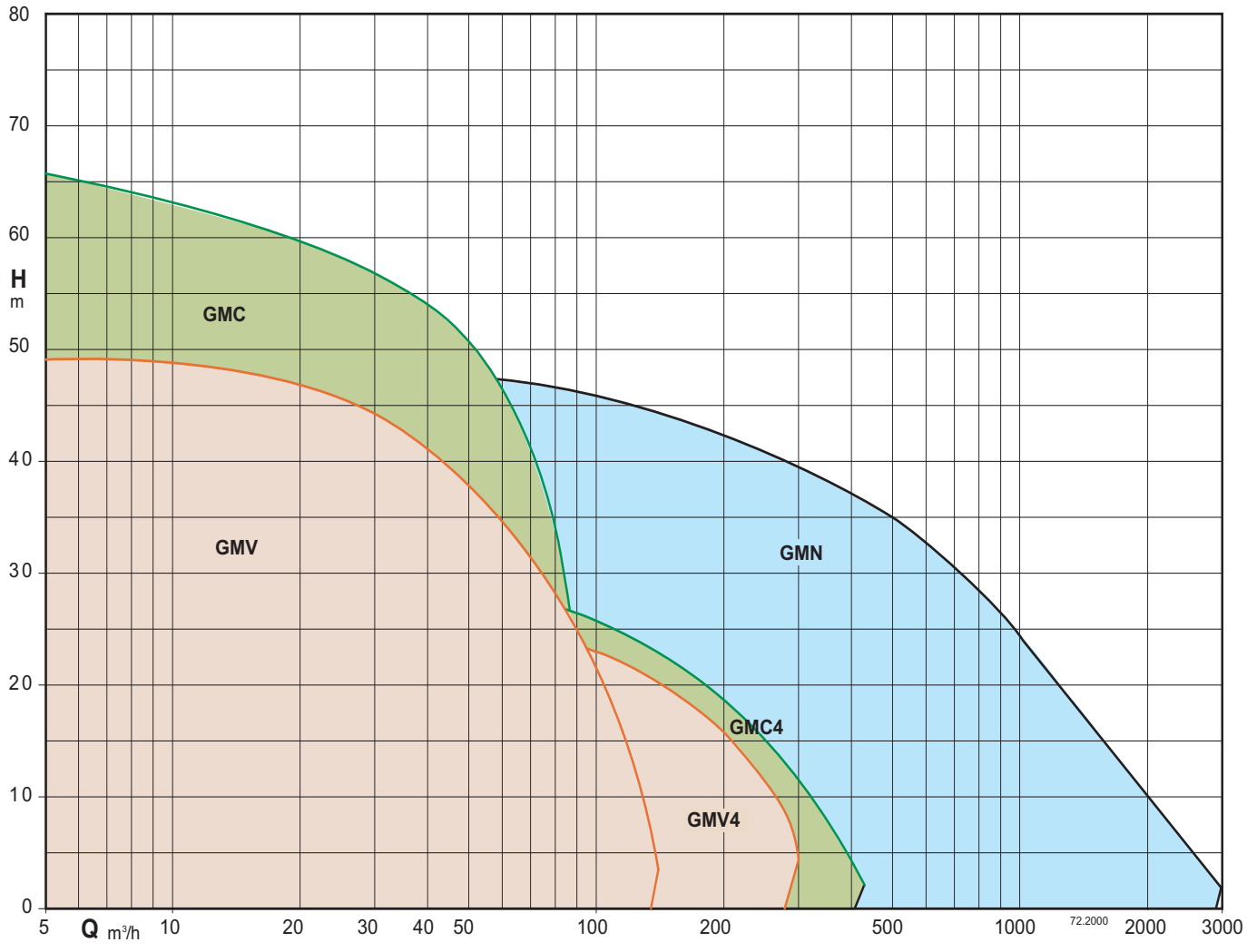
Explosion proof version on request.

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.

GM

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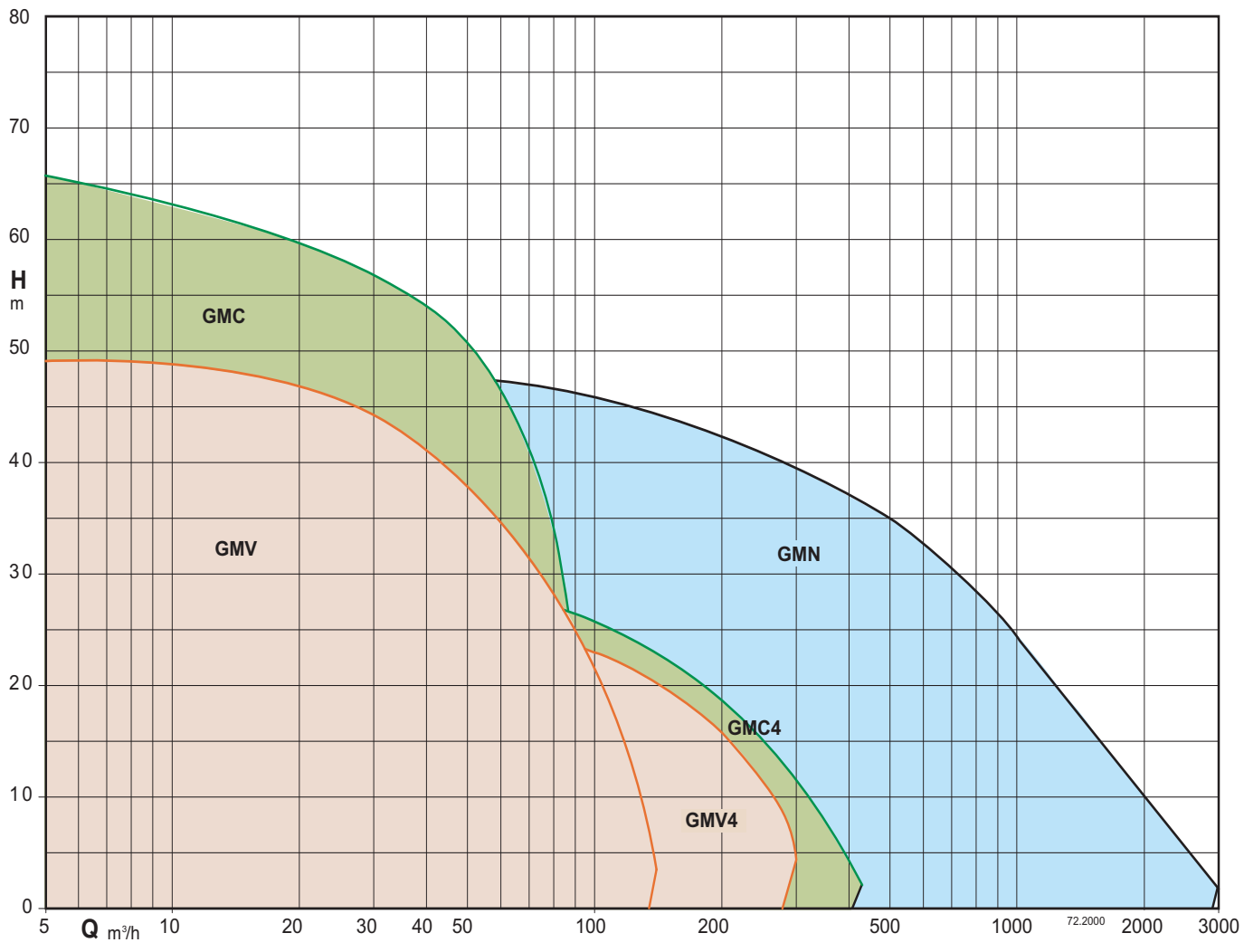


Tolerances according to ISO 9906, annex A.

GMV

Submersible pumps
with vortex impeller

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 sceptic 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 immerged at minimum level).

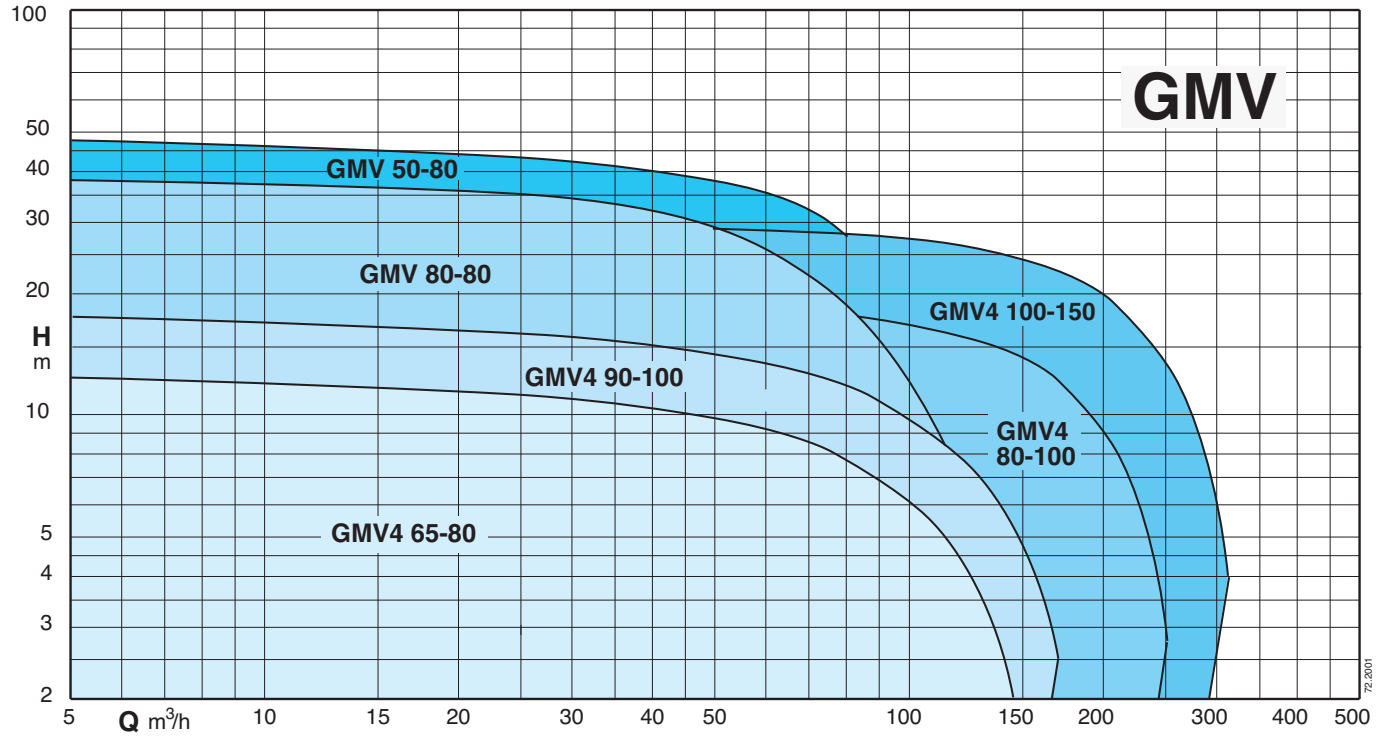
Main materials

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 carbite/silicon carbite

Motor

2 or 4 poles induction, 50Hz
Three-phase version: 400V ± 10%, up to 3,2 kW
400/690V ± 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

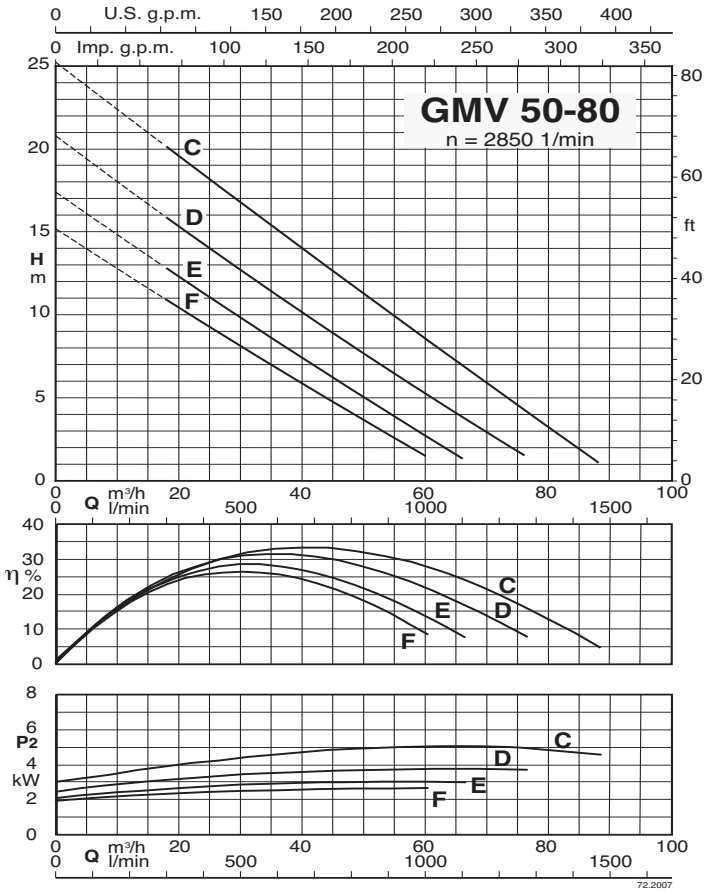


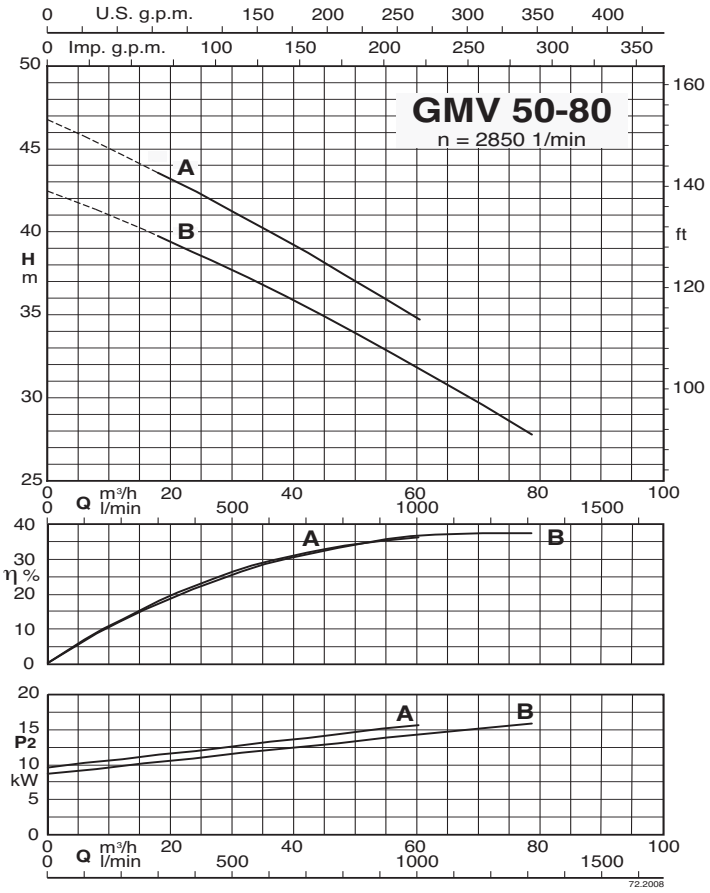
Technical data

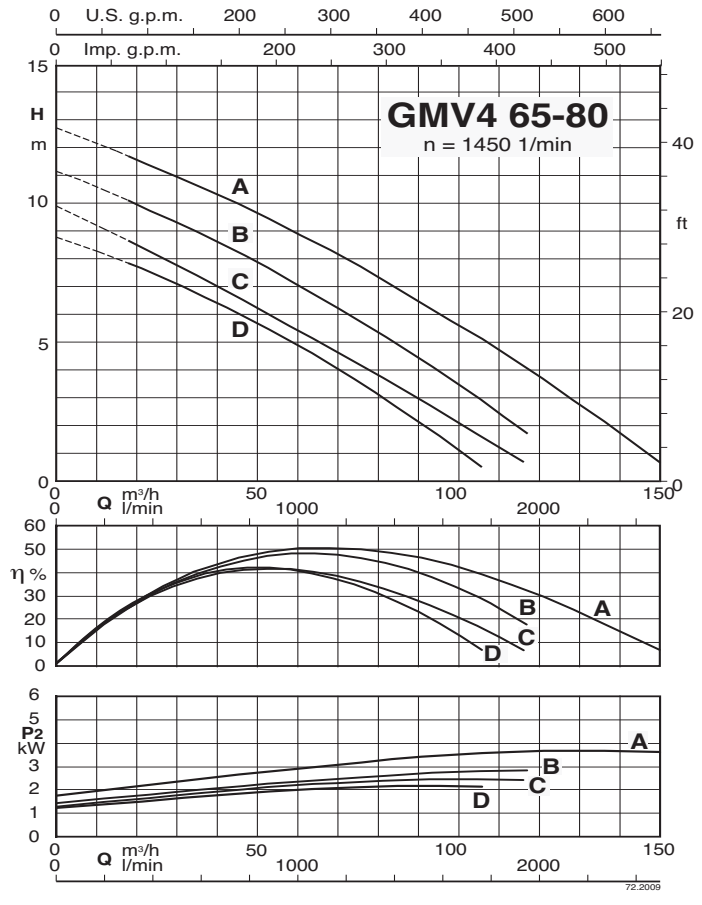
TYPE	P_2 kW	I_N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
GMV 50-80F	3,2	6,5	3~ 400V	2850	D.O.L.	80	50	NO	NO	✔
GMV 50-80E	3,2	6,5	3~ 400V	2850	D.O.L.	80	50	NO	NO	✔
GMV 50-80D	5	11	3~ 400/690V	2850	Y/Δ	80	50	●	●	✔
GMV 50-80C	5,7	12,5	3~ 400/690V	2850	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	●	●	✔

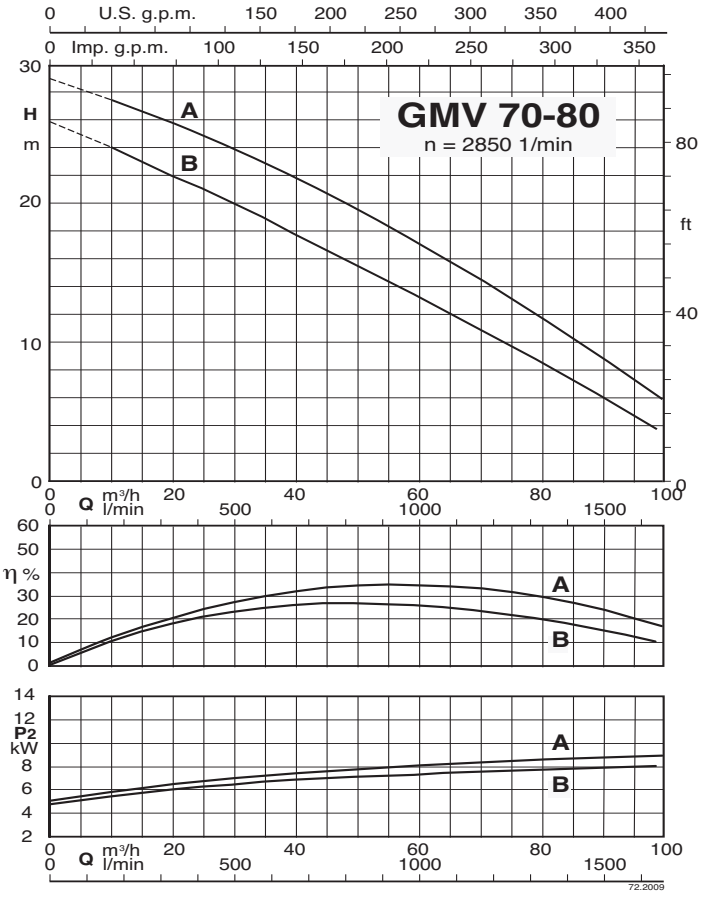
P_2 Rated power output I_N Rated current ● Standard ✔ ATEX Eex Version on demand

Characteristic curves

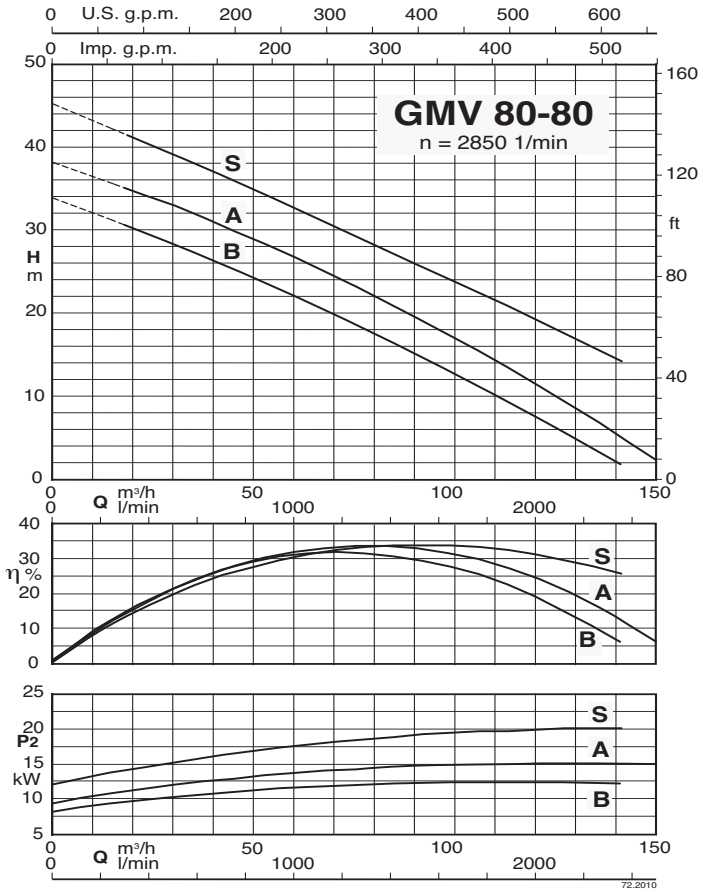


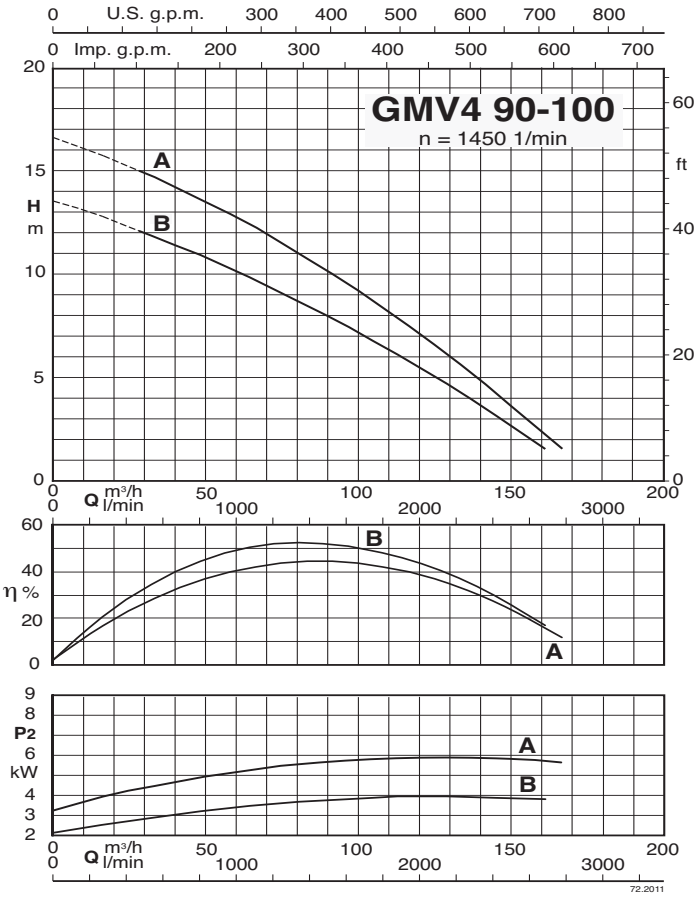


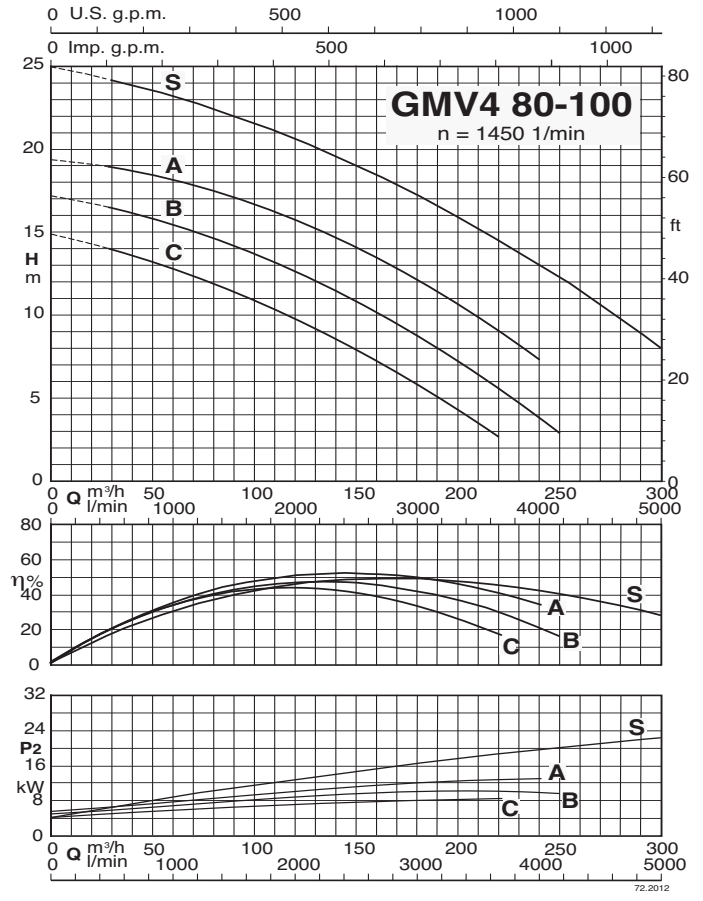


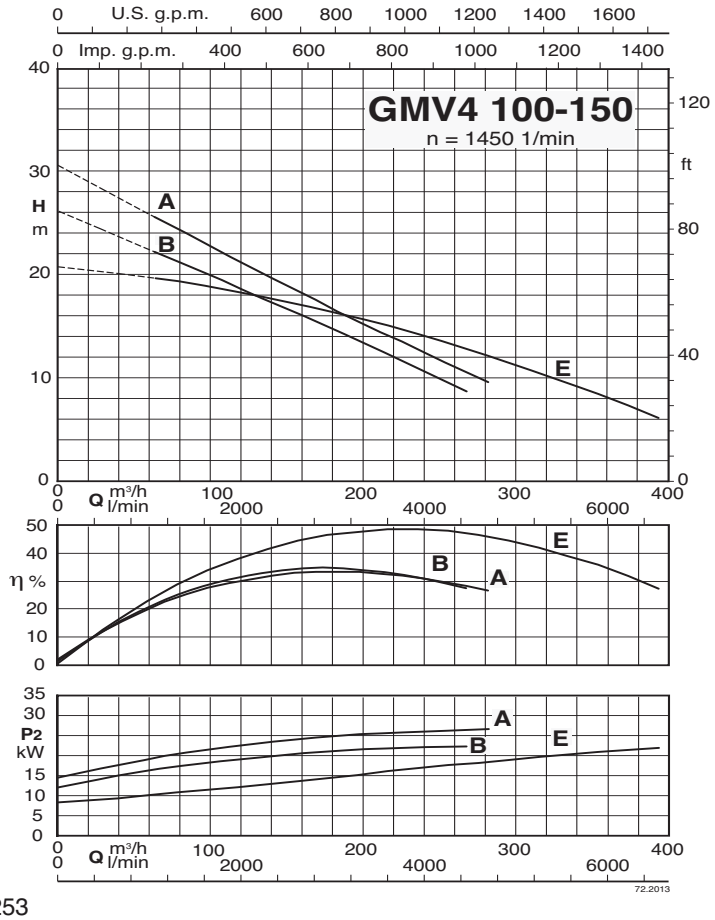


Characteristic curves



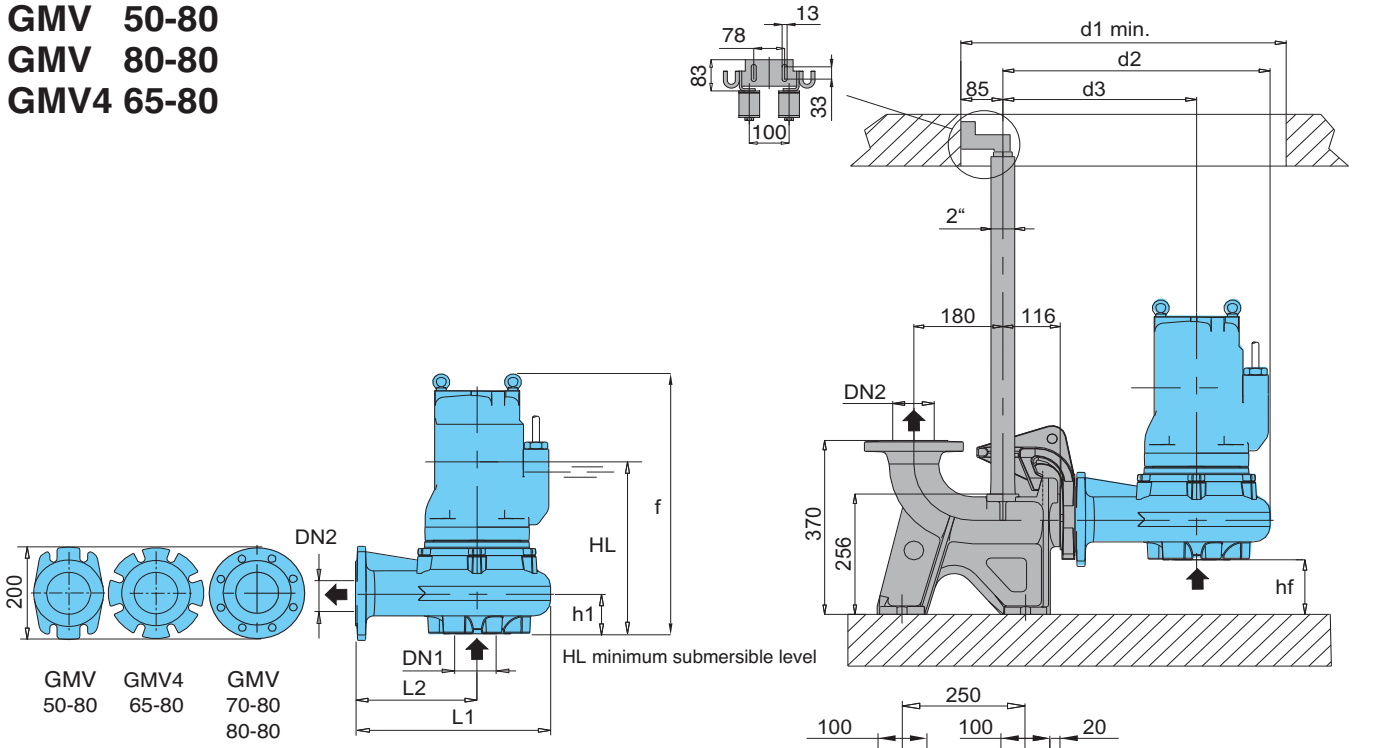


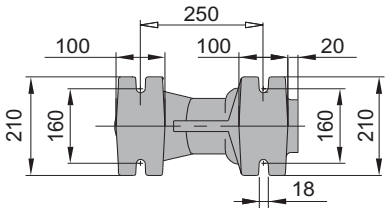


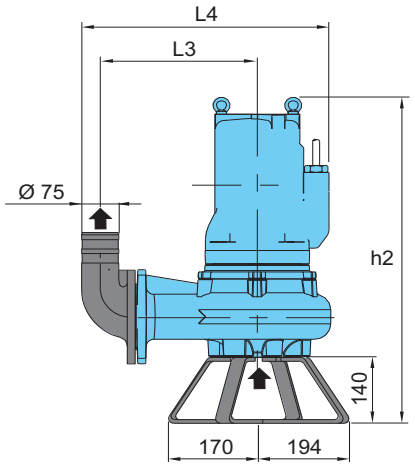


Dimensions and weights

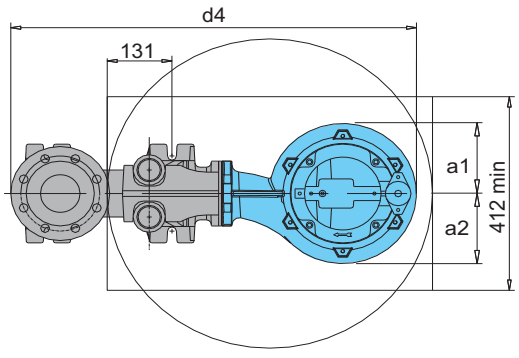
GMV 50-80
GMV 80-80
GMV4 65-80







Version with foot and 90° elbow

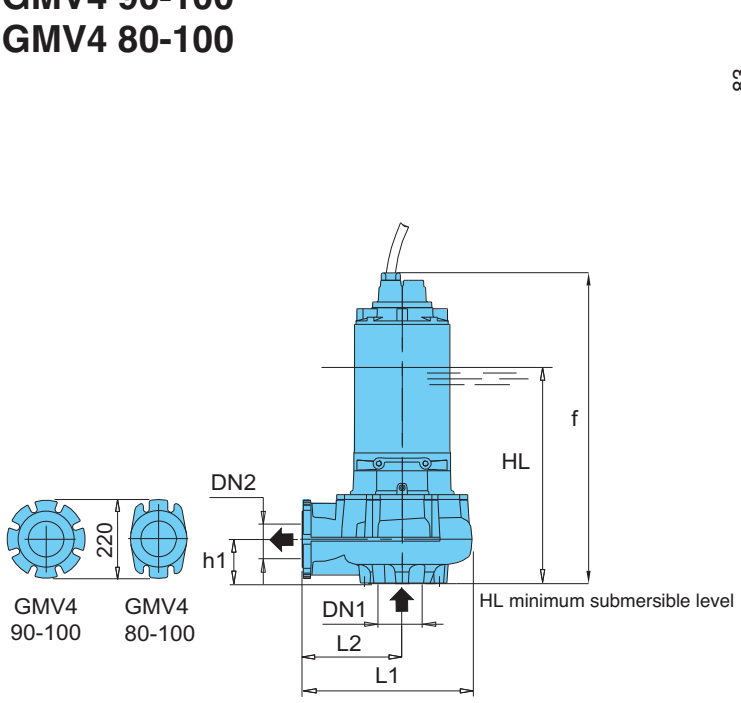


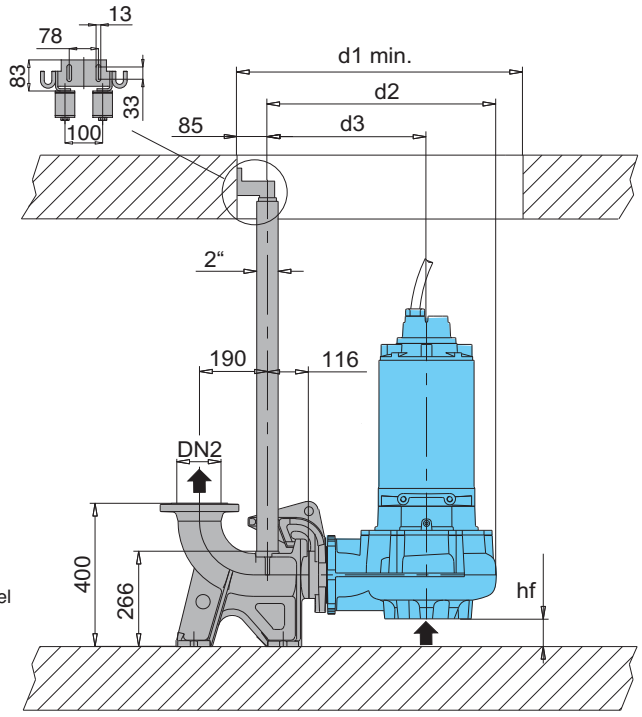
Version with duck foot coupling

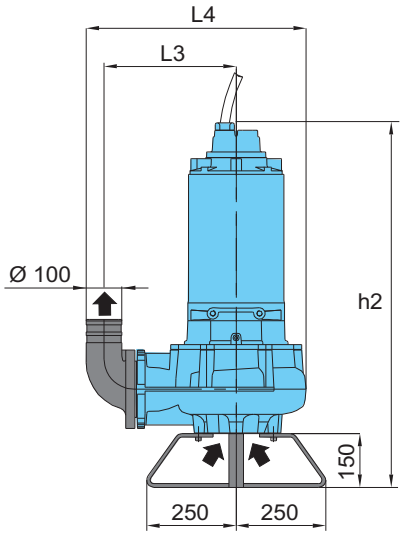
TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMV 50-80F	80	80	487	330	116	84	627	149	149	660	541	392	821	395	246	380	570	52
GMV 50-80E																		
GMV 50-80D	80	80	553	365	116	84	693	149	149	660	541	392	821	395	246	380	570	84
GMV 50-80C																		
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 GMV 70-80A/A	80	80	829	500	65	135	969	167	167	800	633	446	913	467	262	353	576	160
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	80	80	582	400	80	121	722	143	169	700	548	396	828	402	250	323	512	79
GMV4 65-80A																		

Dimensions and weights

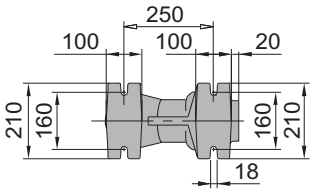
GMV4 90-100
GMV4 80-100

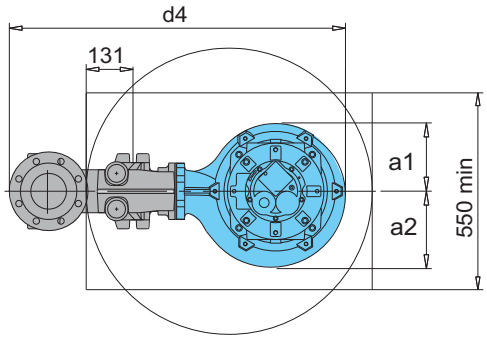






Version with foot and 90° elbow



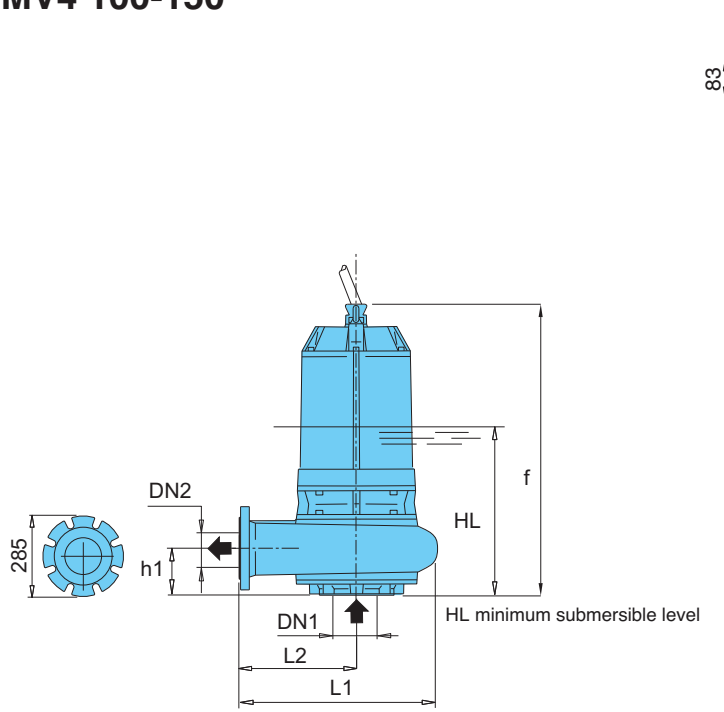


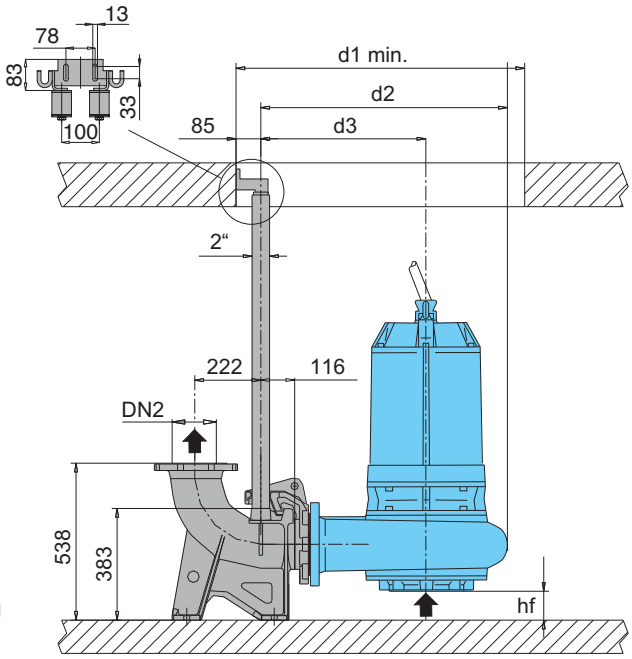
Version with duck foot coupling

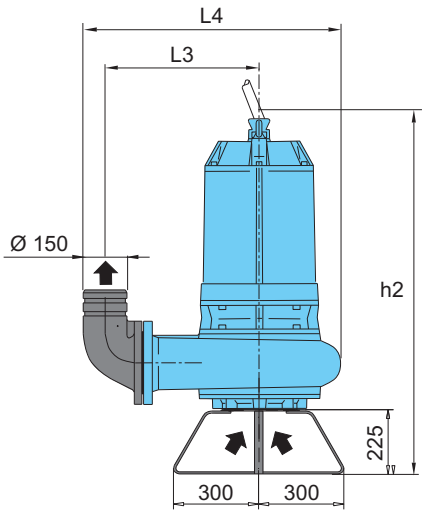
TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMV4 90-100B	125	100	829	490	89	111	979	180	180	800	633	443	933	468	277	367	607	170
GMV4 90-100A																		
GMV4 80-100C	125	100	921	570	54	147	1091	189	212	800	640	445	940	474	279	369	614	200
GMV4 80-100B																		
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

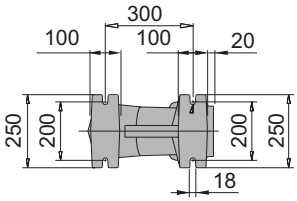
GMV4 100-150

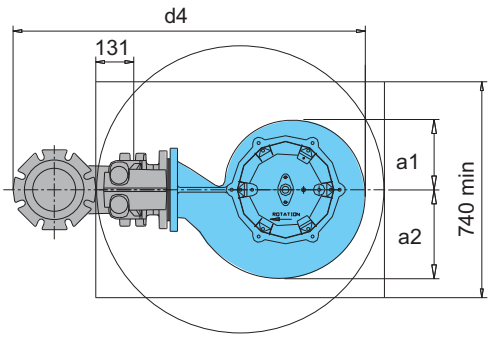






Version with foot and 90° elbow





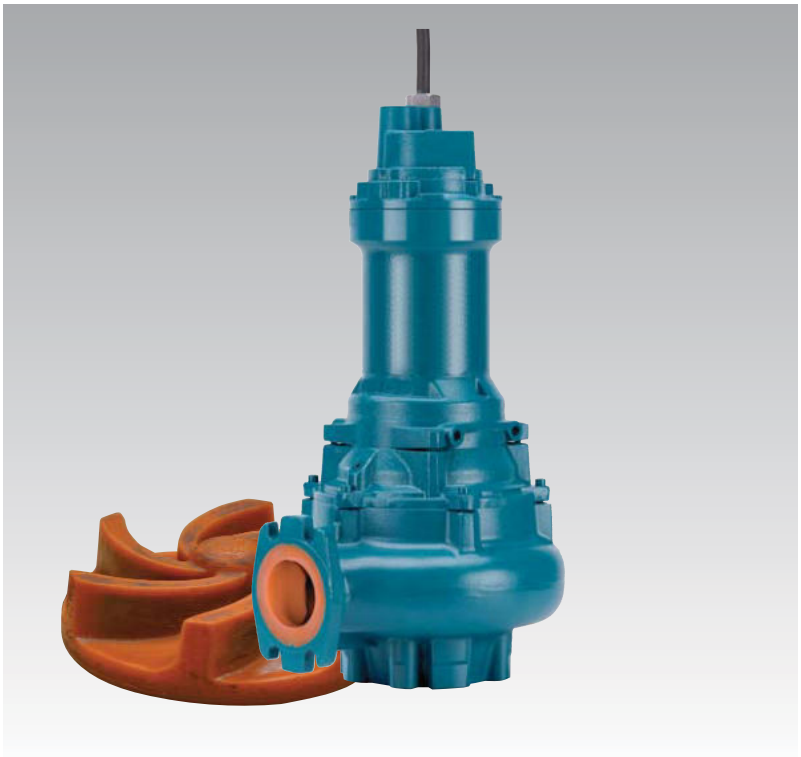
Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight 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																		

GMVS

Submersible pumps vortex
with polyurethane coated hydraulic parts

calpeda®



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 immerged at minimum level).

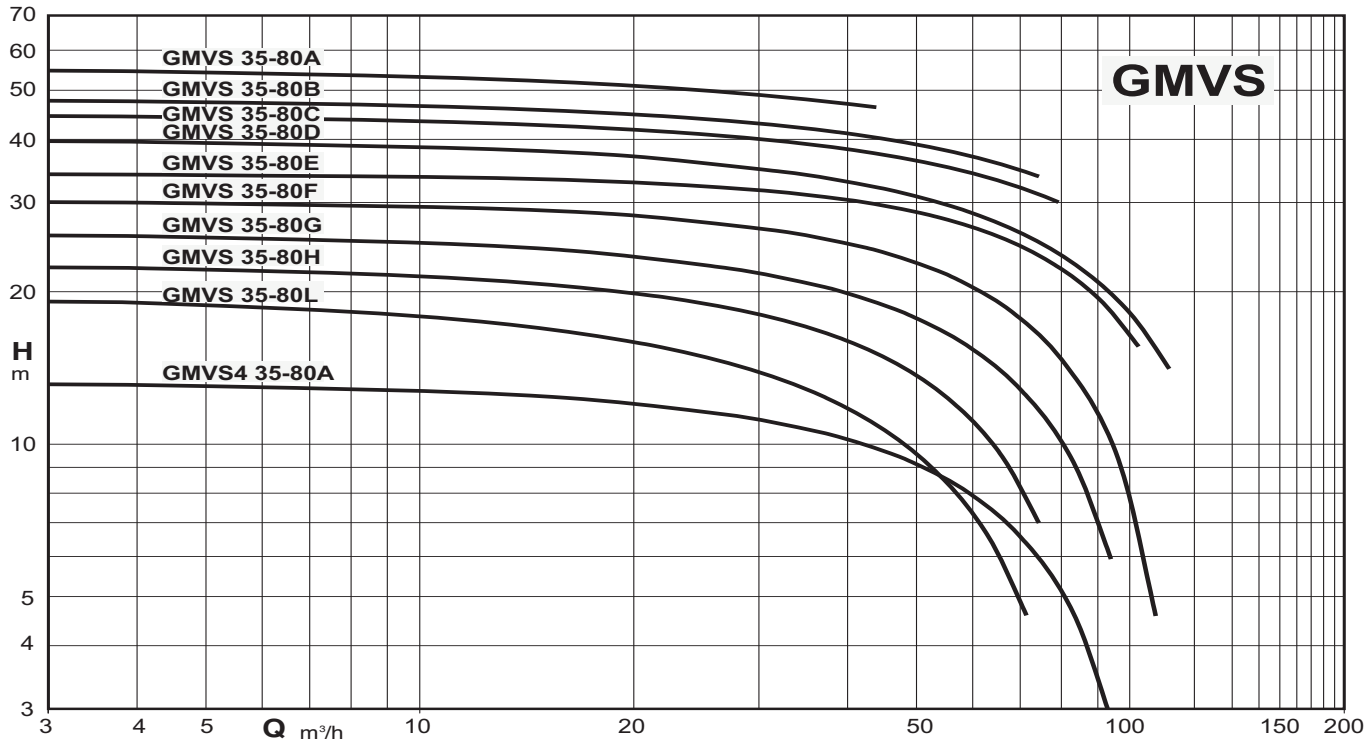
Main materials

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 carbite/silicon carbite

Motor

2 or 4 poles induction, 50Hz
Three-phase version: 400/690V ± 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



GMVS

Submersible pumps vortex
with polyurethane coated hydraulic parts

calpeda®

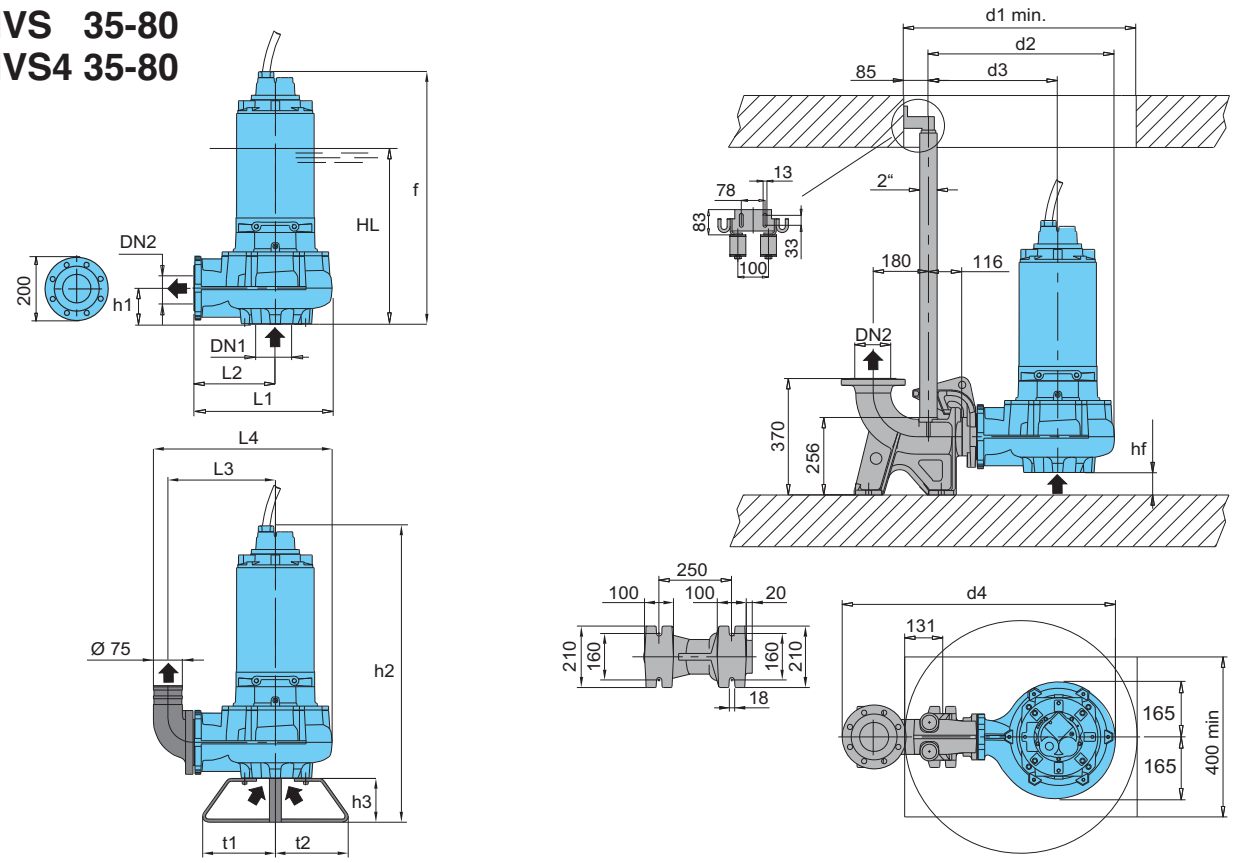
Technical data

TYPE	P_2 kW	I_N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX 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_2 Rated power output I_N Rated current ● Standard ✔ ATEX Eex Version on demand

Dimensions and weights

GMVS 35-80
GMVS4 35-80



TYPE	EN 1092-2 PN 10		Dimensions mm																Weight 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	80	80	867	514	124	100	1017	150	250	250	800	593	408	873	427	242	314	537	191
GMVS 35-80F																			
GMVS 35-80E																			
GMVS 35-80D																			
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

I-GM Submersible pumps AISI 316

calpeda®

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 immerged at minimum level).

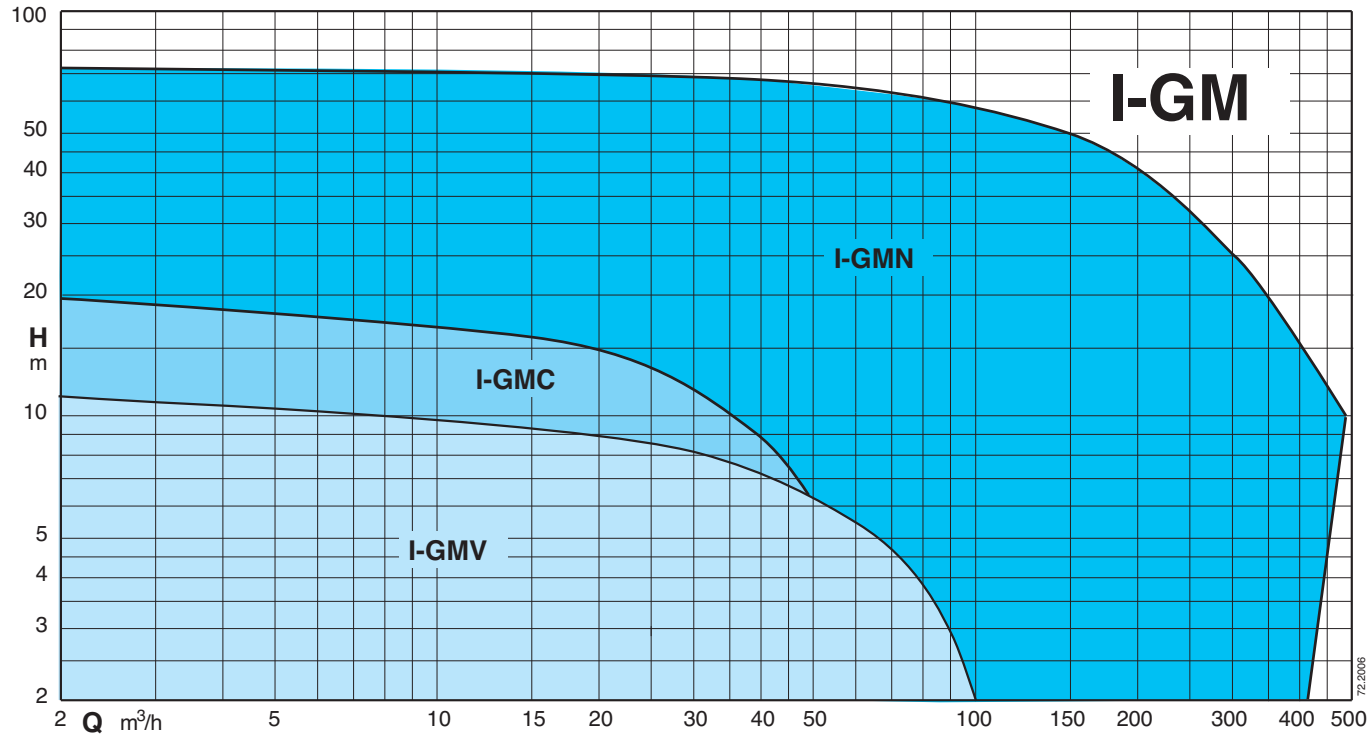
Main materials

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 ± 10%, up to 3,2 kW
400/690V ± 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

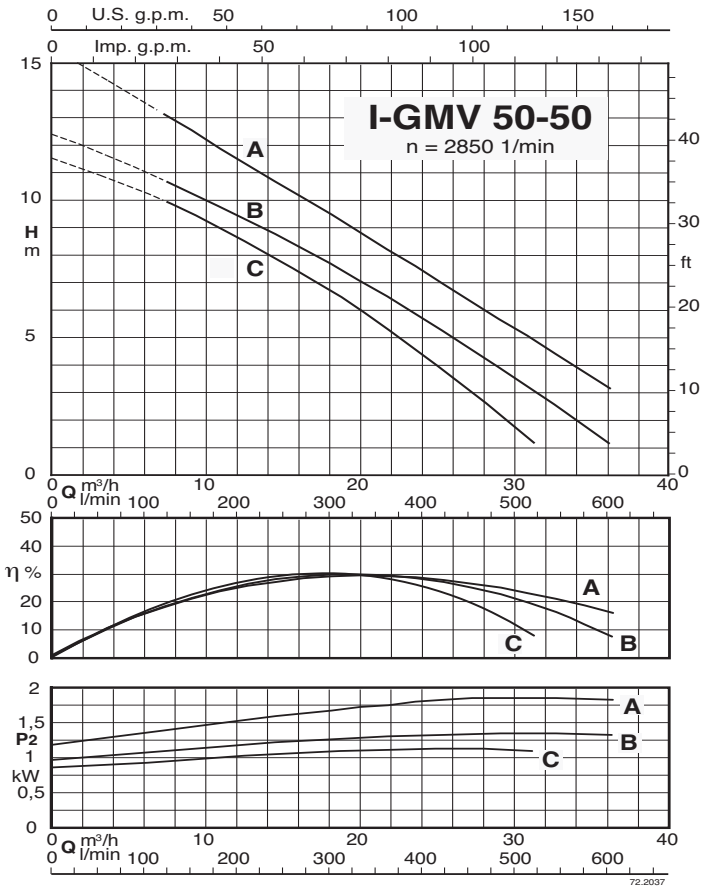


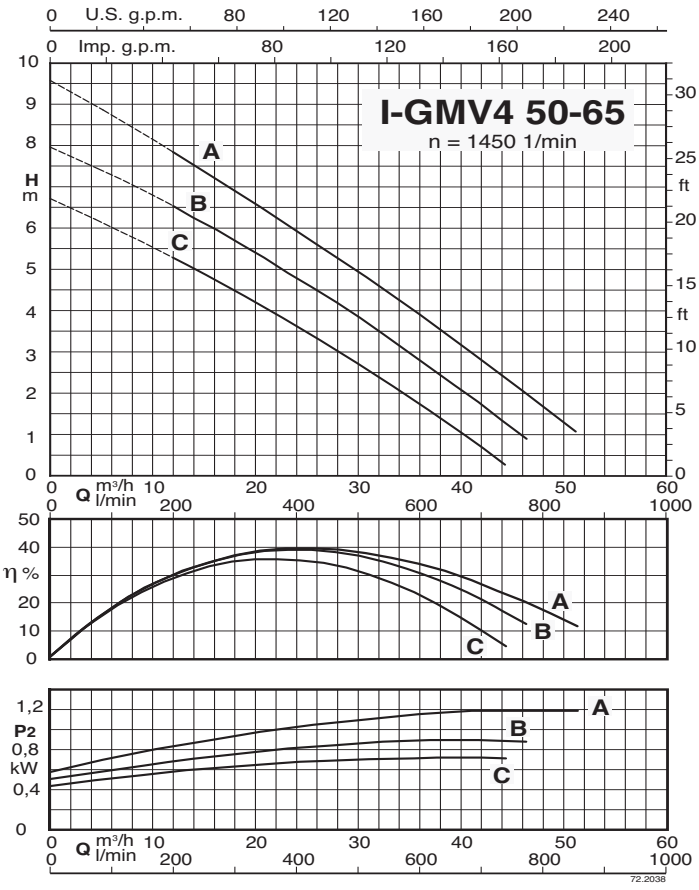
Technical data

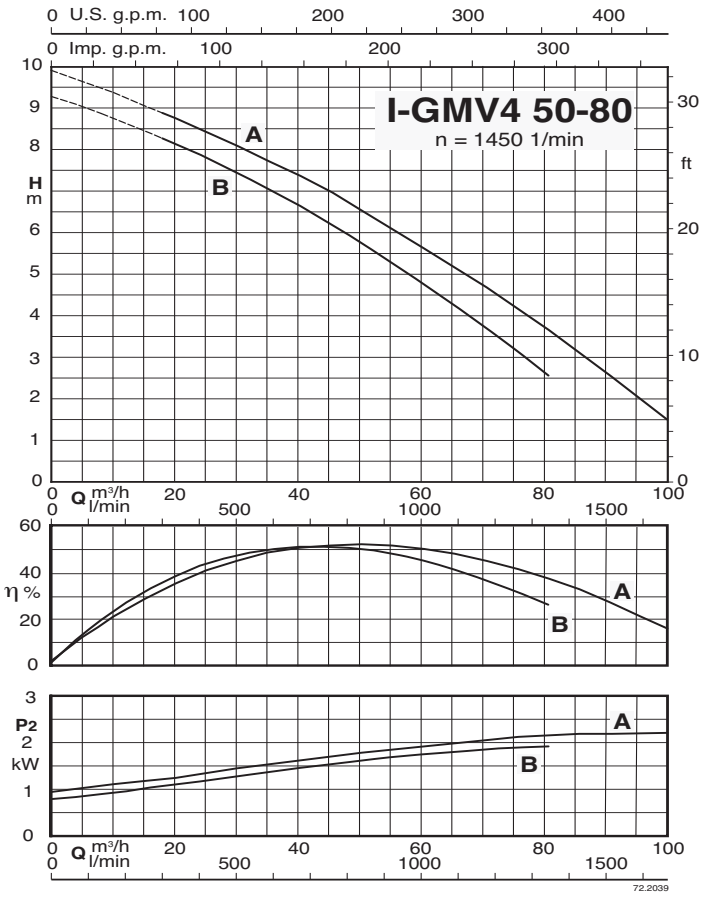
TYPE	P_2 kW	I_N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
I-GMV 50-50C	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✔
I-GMV 50-50B/A	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✔
I-GMV 50-50A/A	2,4	5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✔
I-GMV4 50-65C	1	3	3~ 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	●	●	

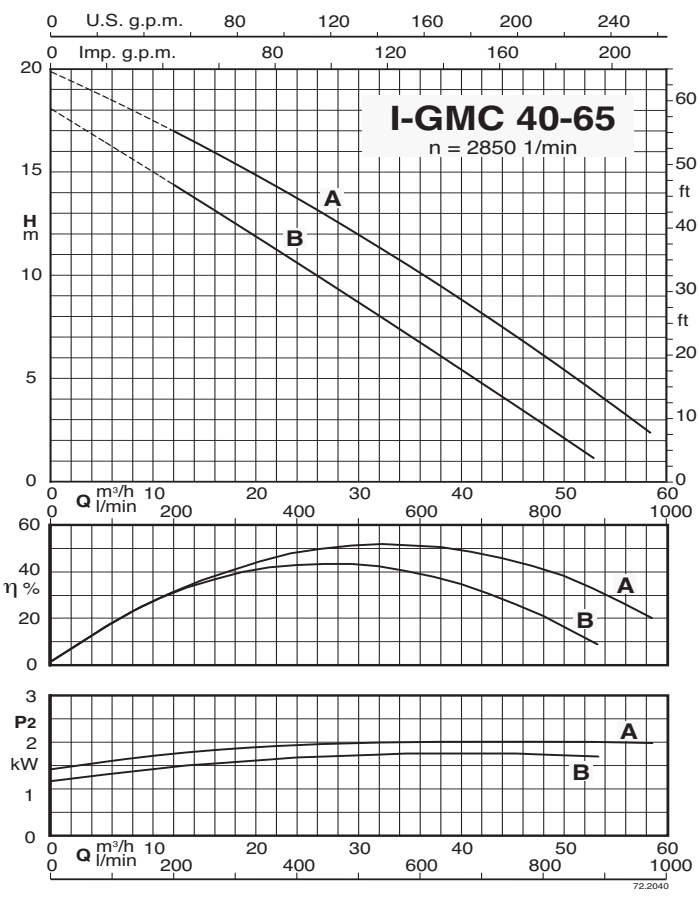
P_2 Rated power output I_N Rated current ● Standard ✔ ATEX Eex Version on demand

Characteristic curves









B-GM Submersible pumps B 10

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 immerged at minimum level).

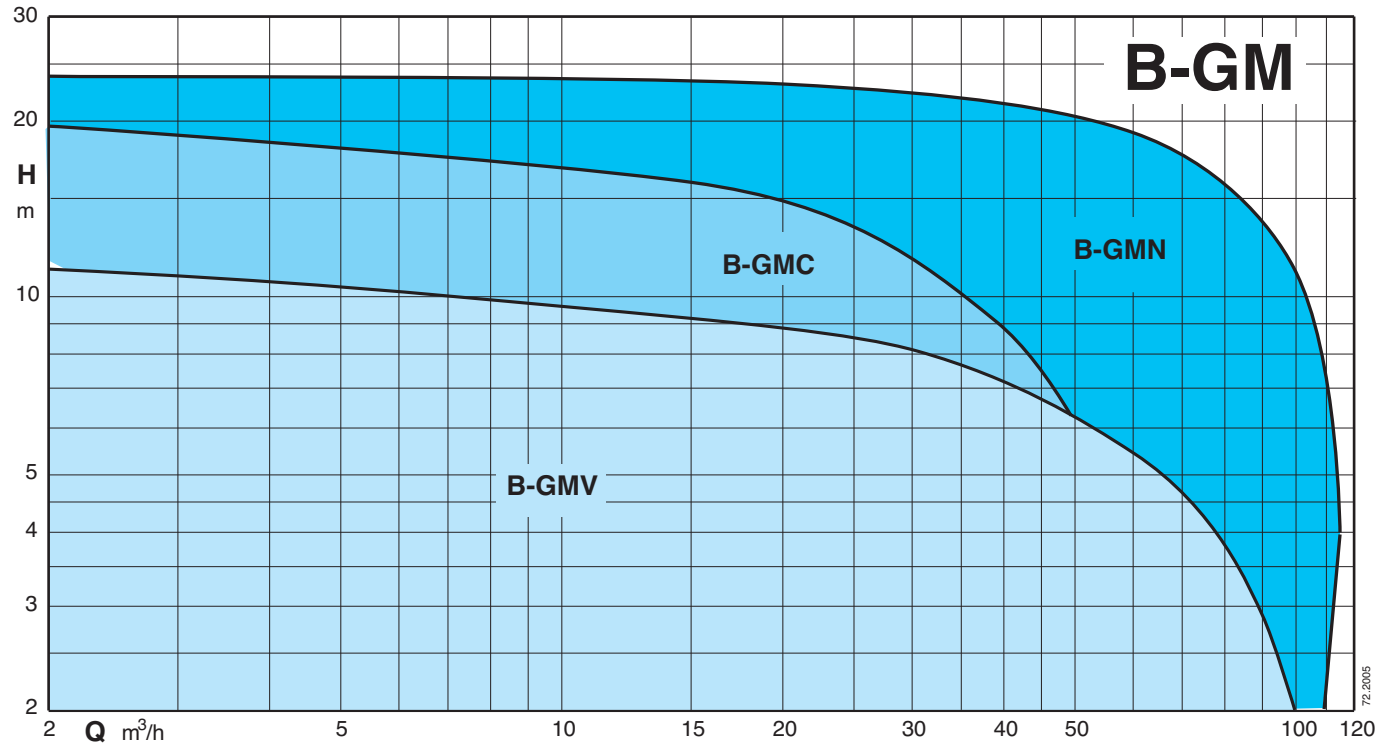
Main materials

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 ± 10%, up to 3,2 kW
400/690V ± 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_2 kW	I_N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX 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_2 Rated power output I_N Rated current ● Standard ✔ ATEX Eex Version on demand

Characteristic curves