EBARA

General Catalogue

Let Our Excellence Be Yours

株式会社 荏原製作所

Let Our Excellence Be Yours

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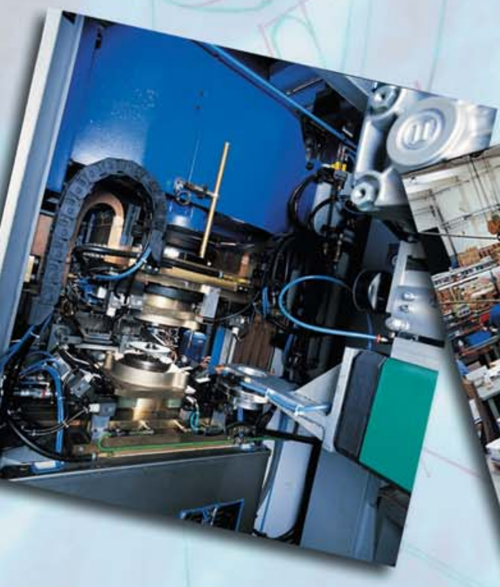


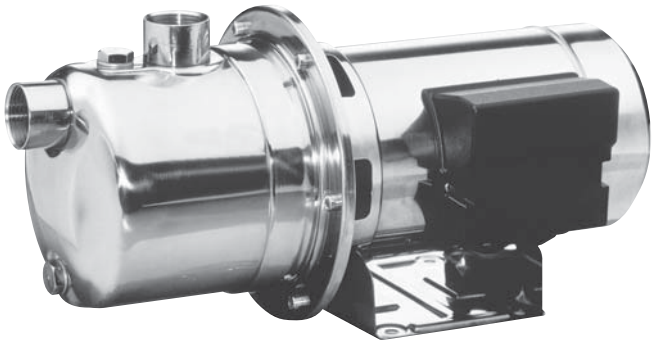
CONTENT

• All the performance curves shown in this catalogue are according ISO 9906 Annex A.

JES-JE

SELF PRIMING PUMPS in AISI 304

Self-priming Jet pumps manufactured in stainless steel AISI 304, suitable for water supply, domestic pressure boosting and small irrigation systems, pool and tank emptying and general clean water pumping.



SPECIFICATIONS

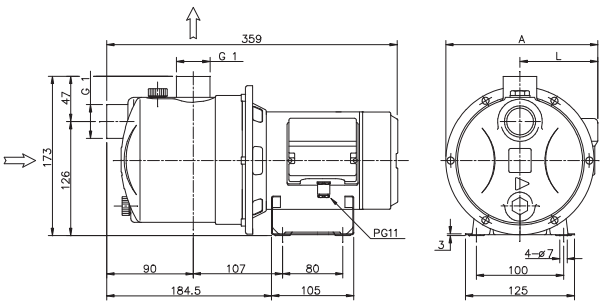
- Maximum working pressure: 6 bar
- Maximum liquid temperature: 45°C

MATERIALS

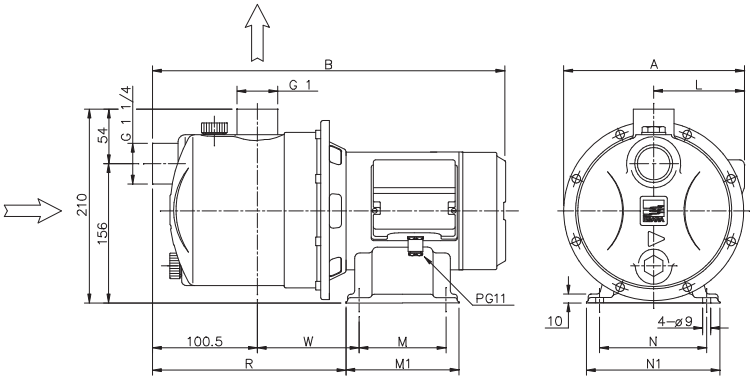
- Pump body, bracket, casing cover, motor casing and fan cover in AISI 304
- Shaft in AISI 303
- Impeller in AISI 304 for JE, in tecnopolymer for JES
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44 (on request IP55)
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1” for JES, 1”1/4 for JE
- Discharge 1”



JES



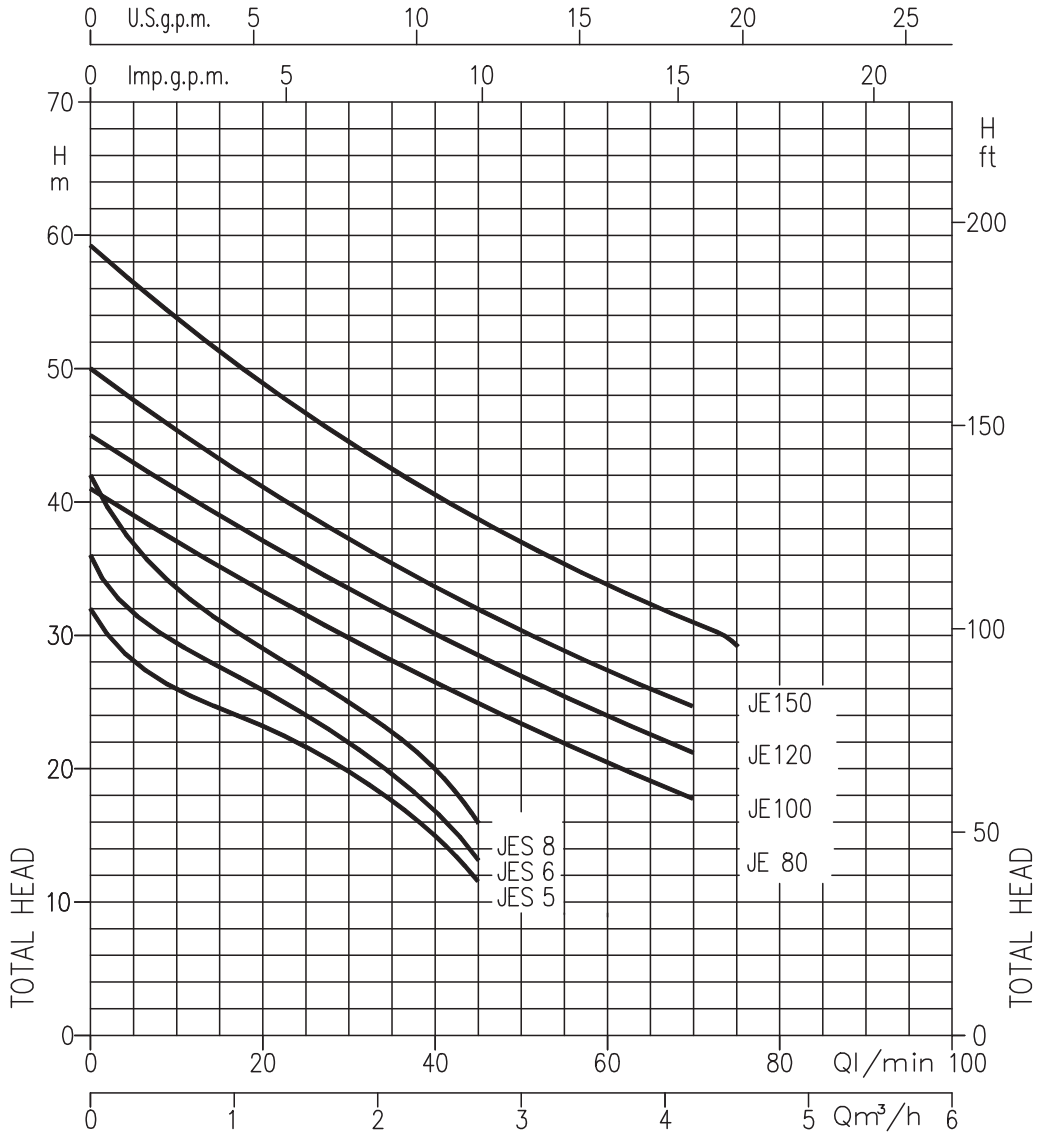
JE

DIMENSIONAL TABLES

Pump type		Dimensions (mm)				Weight kg
		A		L		
Single-phase	Three-phase	1~	3~	1~	3~	
JESM 5	JES 5	181	177	96	92	5,6
JESM 6	JES 6	181	177	96	92	5,8
JESM 8	JES 8	181	177	96	92	6

Pump type		Dimensions (mm)											Weight (kg)
		A		B	L		M	M1	N	N1	R	W	
Single-phase	Three-phase	1~	3~		1~	3~							
JEM 80	JE 80	209	205	401	105	101	100	130	120	150	213,5	128	12
JEM 100	JE 100	209	205	432	105	101	100	130	120	150	228,5	143	13,5
JEM 120	JE 120	209	205	432	105	101	100	130	120	150	228,5	143	13,5
JEM 150	JE 150	214	214	439	110	110	120	150	140	170	231	145,5	15,5

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity								
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V		5	20	30	40	45	50	60	70	75
								m³/h	0,3	1,2	1,8	2,4	2,7	3	3,6	4,2	4,5
									H=Total head								
JESM 5	JES 5	0,37	10	450	2,1	1,5	0,85		28	23	-	15	11,5	-	-	-	-
JESM 6	JES 6	0,44	10	450	2,4	1,9	1,1		31,5	26	-	17	13,5	-	-	-	-
JESM 8	JES 8	0,6	12,5	450	3,0	2,25	1,3		37	29	-	20	16	-	-	-	-
JEM 80	JE 80	0,6	16	450	4,7	3,3	1,9		-	33	29	26,5	-	23,5	20,5	18	-
JEM 100	JE 100	0,75	20	450	6,4	4,5	2,6		-	37	33,5	30	-	27	24	21	-
JEM 120	JE 120	0,88	20	450	6,7	4,7	2,7		-	41	37	34	-	30,5	27,5	24,5	-
JEM 150	JE 150	1,1	31,5	450	7,6	5,9	3,3		-	49	44,5	40,5	-	37	34	31	29,5

JESX-JEX

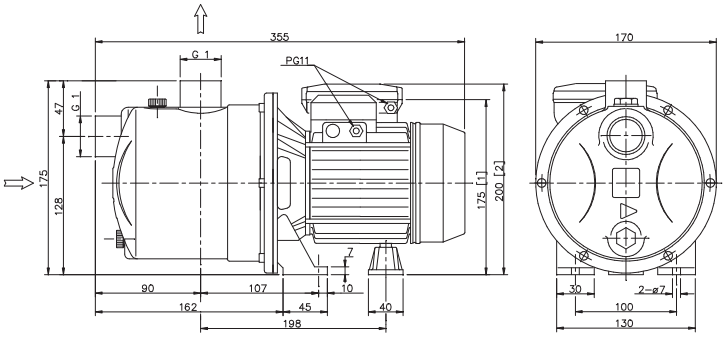
SELF PRIMING PUMPS in AISI 304

Self-priming electropump manufactured in stainless steel AISI 304 suitable for water supply, domestic pressure boosting and small irrigation systems, pool and tank emptying and general clean water pumping.

SPECIFICATIONS
- Maximum working pressure:6 bar
- Maximum liquid temperature: 45°C

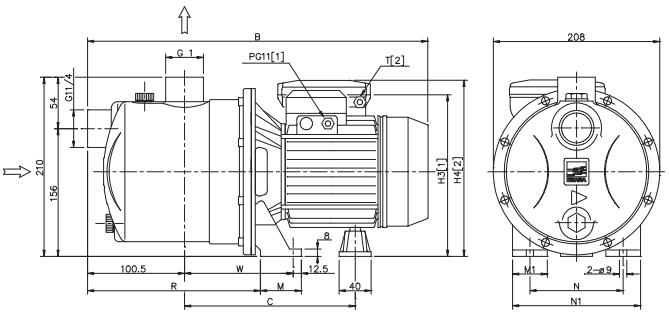
MATERIALS
- Pump body, casing cover in AISI 304
- Shaft in AISI 303
- Impeller in AISI 304 for JEX, in tecnopolymer for JESX
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP54 (on request IP55)
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1” for JESX, 1”¼ for JEX
- Discharge 1”



JESX

[1] : 3 ~
[2] : 1 ~



JEX

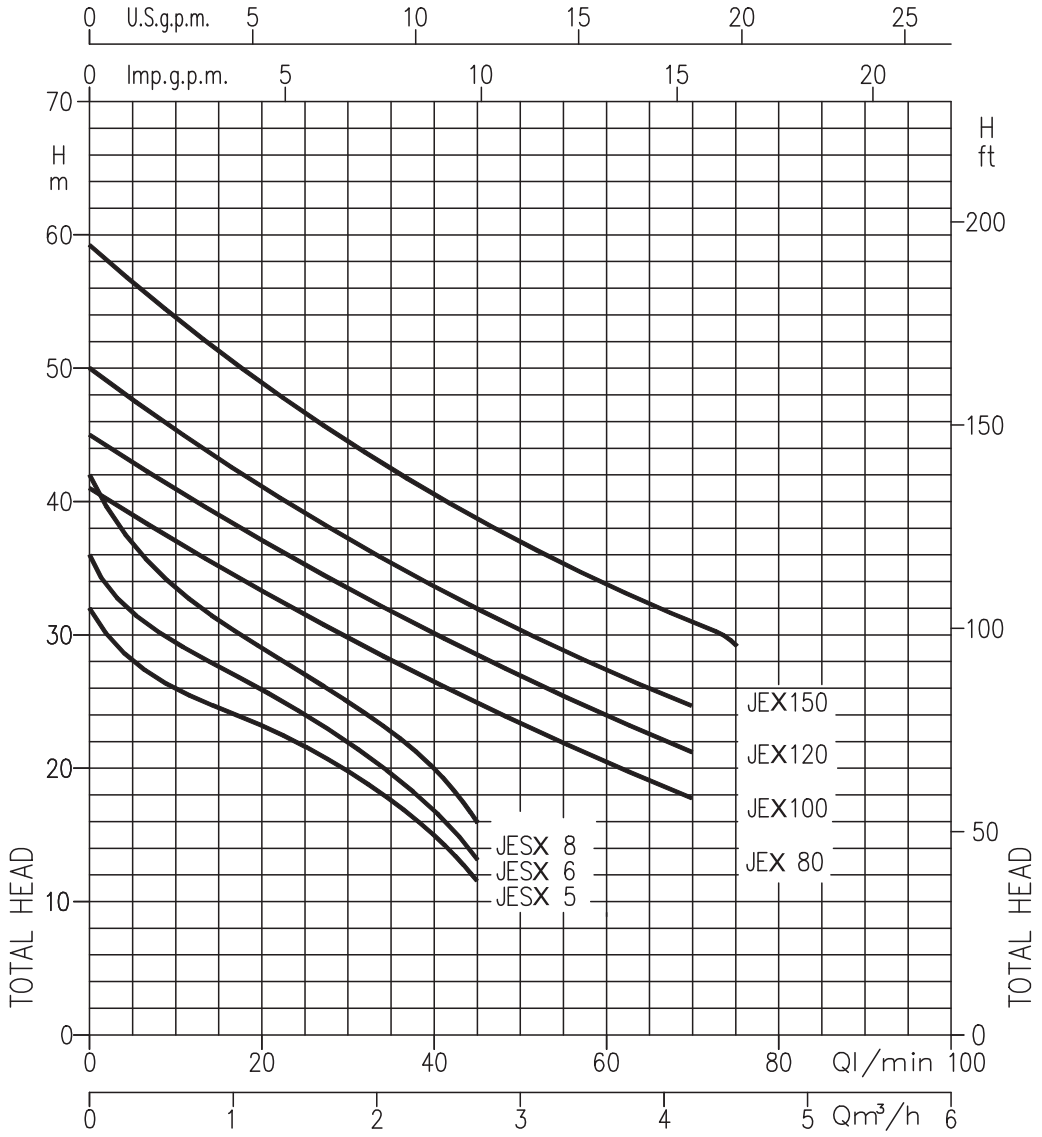
[1] : 3 ~
[2] : 1 ~

DIMENSIONAL TABLE

Pump type		Dimensions (mm)											Weight
		B	C	H3	H4	M	M1	N	N1	R	T	W	(kg)
Single-phase	Three-phase												
JEXM 80	JEX 80	417	230	206	215	50	38	120	160	206	PG11	143	10,3
JEXM 100	JEX 100	417	230	206	215	50	38	120	160	206	PG11	143	10,8
JEXM 120	JEX 120	417	230	206	215	50	38	120	160	206	PG11	143	11,5
JEXM 150	JEX 150	445	250	216	240	55	40	140	180	203,5	PG13,5	145,5	14,1

Pump type		Weight
Single-phase	Three-phase	(kg)
JESXM 5	JESX 5	5.1
JESXM 6	JESX 6	5.5
JESXM 8	JESX 8	6.1

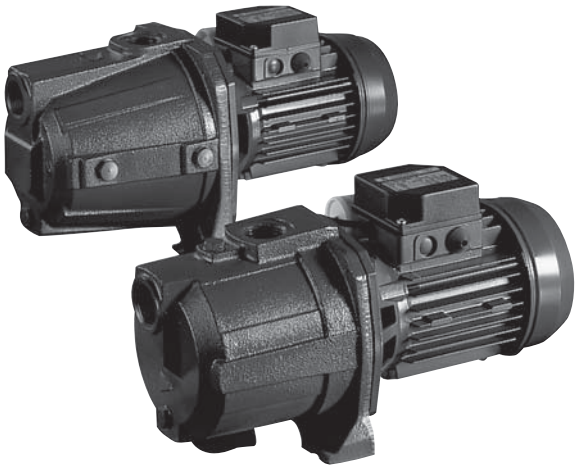
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity								
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V		5	20	30	40	45	50	60	70	75
								m³/h	0,3	1,2	1,8	2,4	2,7	3	3,6	4,2	4,5
									H=Total head								
JESXM 5	JESX 5	0,37	10	450	2,1	1,5	0,85		28	23	-	15	11,5	-	-	-	-
JESXM 6	JESX 6	0,44	10	450	2,4	1,9	1,1		31,5	26	-	17	13,5	-	-	-	-
JESXM 8	JESX 8	0,6	12,5	450	3,0	2,25	1,3		37	29	-	20	16	-	-	-	-
JEXM 80	JEX 80	0,6	16	450	4,7	3,3	1,9		-	33	29	26,5	-	23,5	20,5	18	-
JEXM 100	JEX 100	0,75	20	450	6,4	4,5	2,6		-	37	33,5	30	-	27	24	21	-
JEXM 120	JEX 120	0,88	20	450	6,7	4,7	2,7		-	41	37	34	-	30,5	27,5	24,5	-
JEXM 150	JEX 150	1,1	31,5	450	7,6	5,9	3,3		-	49	44,5	40,5	-	37	34	31	29,5

Self-priming jet pumps produced in cast iron, suitable for water supply, domestic pressure boosting and small irrigation systems, pool and tank emptying and general clean water pumping.



SPECIFICATIONS

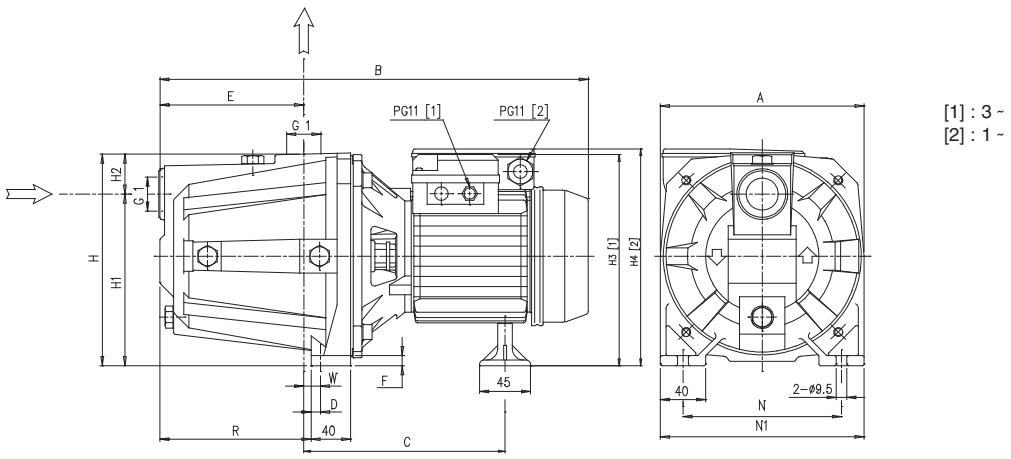
- Maximum working pressure: 6 bar
- Maximum liquid temperature: 45°C
- Maximum suction depth: 8 m

MATERIALS

- Pump body in cast iron
- Casing cover in AISI 304
- Shaft in AISI 416
- Impeller, nozzle and diffuser in tecnopolymer
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

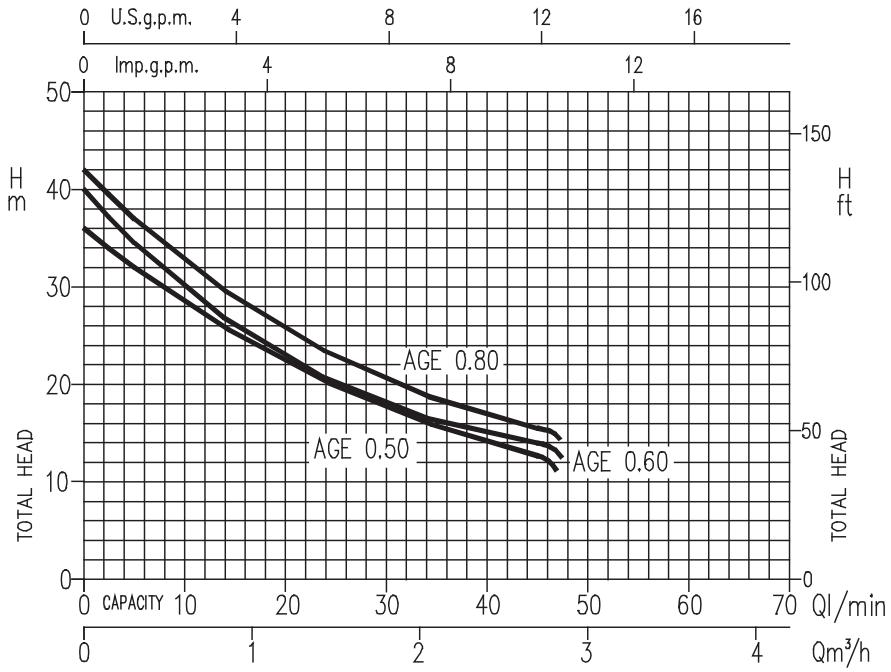
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction-Discharge 1”

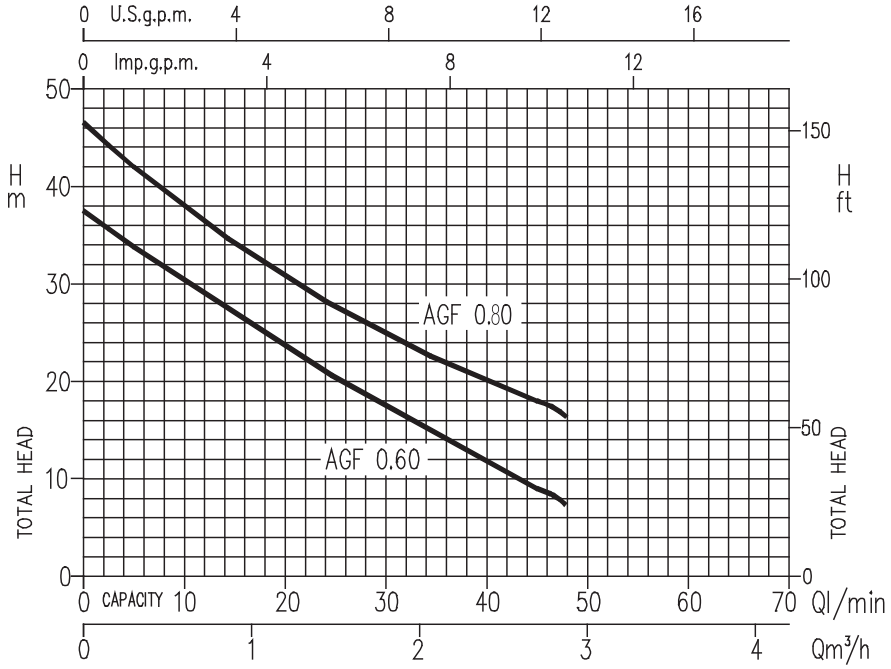


DIMENSIONAL TABLE

Pump type		Dimensions (mm)															Weight (kg)
		A	B	C	D	E	F	H	H1	H2	H3	H4	N	N1	R	W	
Single-phase	Three-phase										3~	1~					
AGE 0.50 M	AGE 0.50 T	150	352	193	17,2	99,5	8	160	122	38	172,5	174	110	150	111	24	8
AGE 0.60 M	AGE 0.60 T	150	352	193	17,3	99,5	8	160	122	38	172,5	174	110	150	111	24	8,5
AGE 0.80 M	AGE 0.80 T	150	352	193	17,3	99,5	8	160	122	38	172,5	174	110	150	111	24	9
AGF 0.60 M	AGF 0.60 T	180	377	191	10,3	127	9	185	152	33	187,5	189	140	180	129	12	11
AGF 0.80 M	AGF 0.80 T	180	377	191	10,3	127	9	185	152	33	187,5	189	140	180	129	12	12

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*

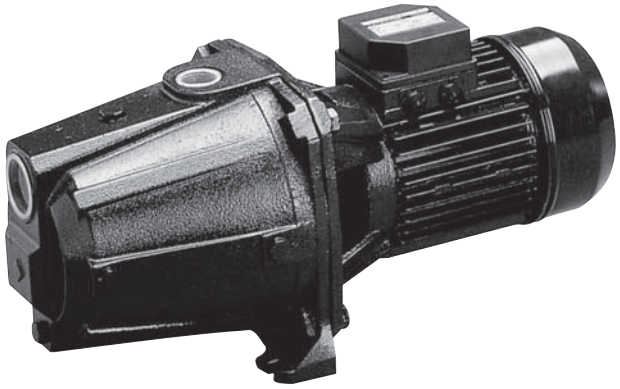




PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	1~	3~ 230V	3~ 400V	m³/h	5	10	20	30	40	45
									0	0,6	1,2	1,8	2,4	2,7
									H=Total head					
AGE 0.50 M	AGE 0.50 T	0,37	10	450	2,4	2	1,1		32	28,4	22,4	17,6	14,1	12,7
AGE 0.60 M	AGE 0.60 T	0,45	10	450	2,75	2	1,1		34,5	29,9	22,8	17,9	14,9	14
AGE 0.80 M	AGE 0.80 T	0,6	10	450	2,8	2,1	1,2		37	32,7	25,6	20,5	16,8	15,5
AGF 0.60 M	AGF 0.60 T	0,45	10	450	3	2,1	1,2		33,8	30,2	23,5	17,3	11,7	9
AGF 0.80 M	AGF 0.80 T	0,6	12,5	450	3,7	2,4	1,4		42	37,9	30,7	24,8	20	18

Self-priming electropump made in cast iron suitable domestic pressure boosting, small irrigation, gardening, car washing, tanks and pools emptying and pumping clear water in general.



SPECIFICATIONS

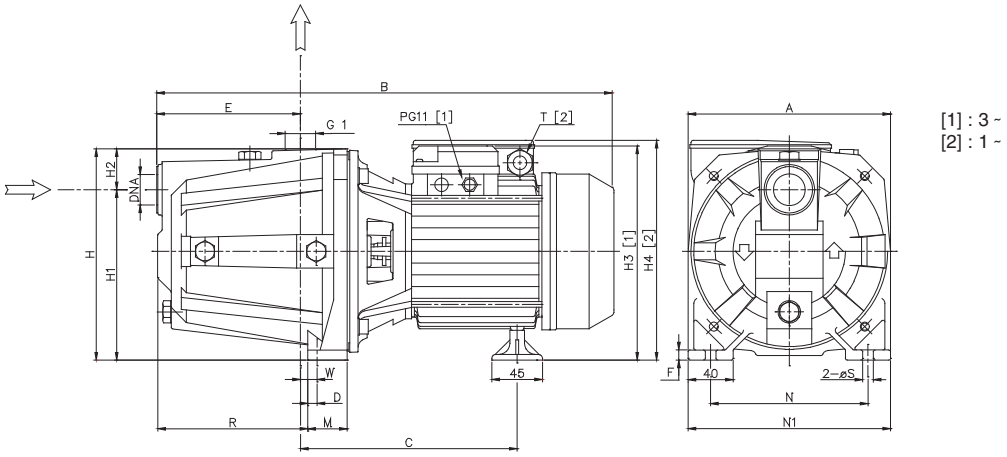
- Maximum working pressure:
  6 bar for AGA 0.60-0.75-1.00
  10 bar for the other models
- Maximum liquid temperature: 45°C
- Maximum suction depth: 8 m

MATERIALS

- Pump body in cast iron
- Casing cover in AISI 304 for AGA 0.60-0.75-1.00
- Shaft in AISI 416 for AGA 0.60-0.75-1.00,
  in AISI 303 for the other models
- Impeller in tecnopolymer for AGA 0.60-0.75-1.00,
  in brass for the other models
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

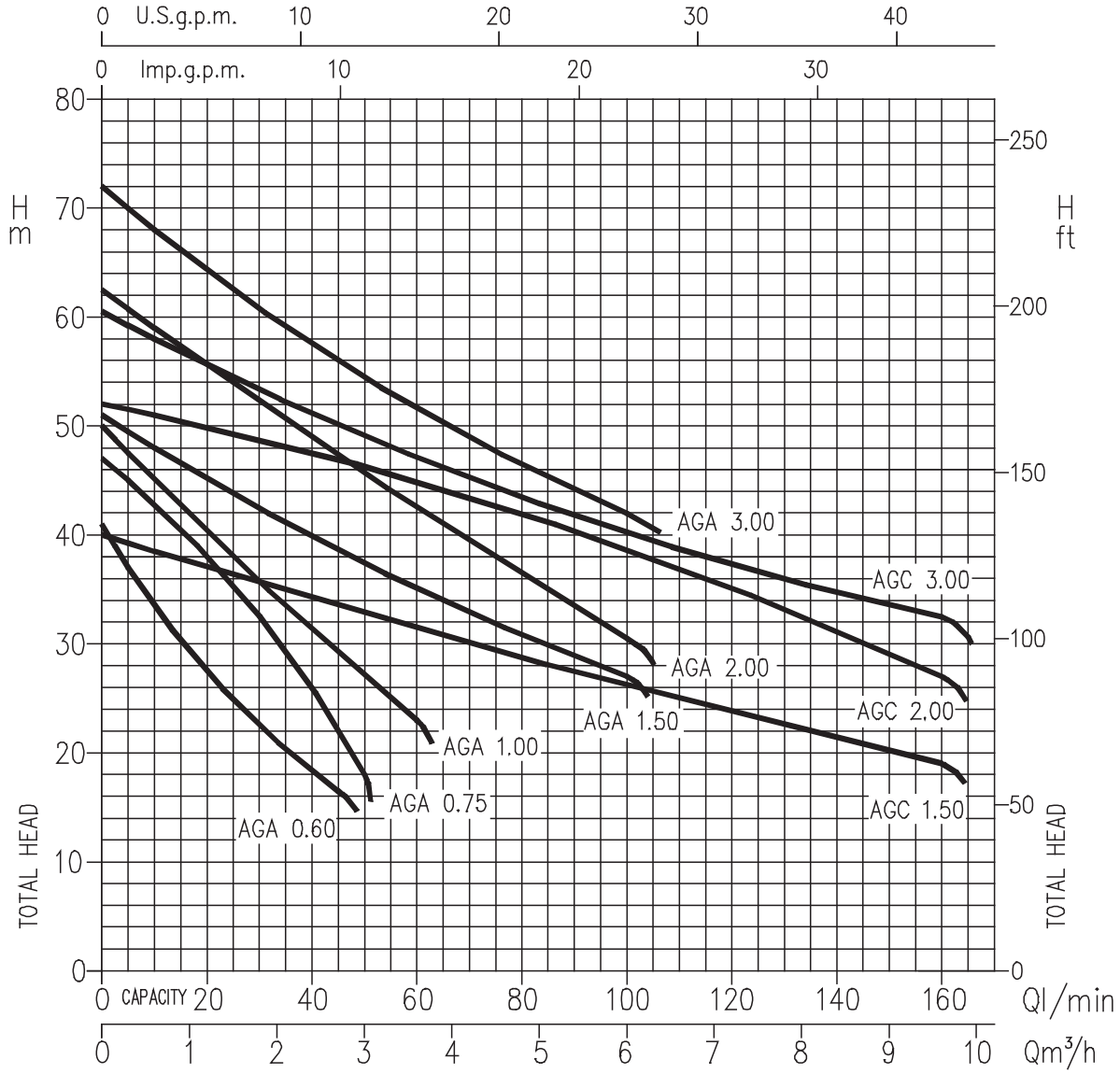
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1” for AGA 0.60-0.75-1.00
- Suction 1” ½ for the other models
- Discharge 1”



DIMENSIONAL TABLE

Pump type		Dimensions (mm)																				Weight
		A	B		C	D	E	F	H	H1	H2	H3	H4	M	N	N1	R	T	W	S	DNA	(kg)
Single-phase	Three-phase		1~	3~.								3~	1~					1~				
AGA 0.60 M	AGA 0.60 T	180	405	405	195	10,3	127	9	185	152	33	197,5	199	40	140	180	128,5	PG11	11,8	9,5	G 1	12,5
AGA 0.75 M	AGA 0.75 T	180	405	405	195	10,3	127	9	185	152	33	197,5	199	40	140	180	128,5	PG11	11,8	9,5	G 1	13
AGA 1.00 M	AGA 1.00 T	180	405	405	195	10,3	127	9	185	152	33	197,5	199	40	140	180	128,5	PG11	11,8	9,5	G 1	14
AGA 1.50 M	AGA 1.50 T	220	495	495	244	10	157	10	223	170	53	229	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	26
AGA 2.00 M	AGA 2.00 T	220	508	495	244	10	157	10	223	170	53	229	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	27
-	AGA 3.00 T	220	-	508	244	10	157	10	223	170	53	229	-	48	180	220	167,5	-	15,5	9	G 1½	27
AGC 1.50 M	AGC 1.50 T	220	495	495	244	10	157	10	223	170	53	229	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	26
AGC 2.00 M	AGC 2.00 T	220	508	495	244	10	157	10	223	170	53	229	247	48	180	220	167,5	PG13,5	15,5	9	G 1½	27
-	AGC 3.00 T	220	-	508	244	10	157	10	223	170	53	229	-	48	180	220	167,5	-	15,5	9	G 1½	27

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type Single-phase 230V 50Hz	Pump type Three-phase 230/400V 50Hz	kW	Capacitor µF	Capacitor Vc	Absorbed Current (A) Single-phase	Absorbed Current (A) Three-phase 230V	Absorbed Current (A) Three-phase 400V	l/min	5	10	20	30	45	50	60	80	100	130	160
								m³/h	0,3	0,6	1,2	1,8	2,7	3	3,6	4,8	6	7,8	9,6
									Q=Capacity H=Total head										
AGA 0.60 M	AGA 0.60 T	0,44	12,5	450	3,1	2,1	1,2		37	33,4	27,1	22	16,5	-	-	-	-	-	-
AGA 0.75 M	AGA 0.75 T	0,55	14	450	4,0	2,8	1,6		45	42,8	37,9	32	21,9	18	-	-	-	-	-
AGA 1.00 M	AGA 1.00 T	0,75	20	450	5,5	3,6	2,1		47,5	45	40,3	35,7	29,1	27	23	-	-	-	-
AGA 1.50 M	AGA 1.50 T	1,1	35	450	8,1	5,3	3,0		-	48	45,1	42,4	38,6	37,4	35,1	30,8	27	-	-
AGA 2.00 M	AGA 2.00 T	1,5	40	450	9,8	6,3	3,6		-	59	55,6	52,2	47,3	45,7	42,5	36,4	30,5	-	-
-	AGA 3.00 T	2,2	-	-	-	7,9	4,7		-	68	64,3	60,8	55,9	54,4	51,6	46,4	42	-	-
AGC 1.50 M	AGC 1.50 T	1,1	35	450	8,6	5,8	3,3		-	38,5	37	35,6	33,5	32,7	31,4	28,7	26,1	22,4	19
AGC 2.00 M	AGC 2.00 T	1,5	40	450	10,5	6,8	3,9		-	51	49,9	48,8	46,9	46,3	44,9	42	38,7	33,2	27
-	AGC 3.00 T	2,2	-	-	-	7,9	4,6		-	58	55,6	53,5	50,1	49,1	47,1	43,4	40,2	35,9	32,5

Single impeller centrifugal pumps manufactured from stainless steel AISI 304, suitable for water supply, treatment and irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids.

SPECIFICATIONS

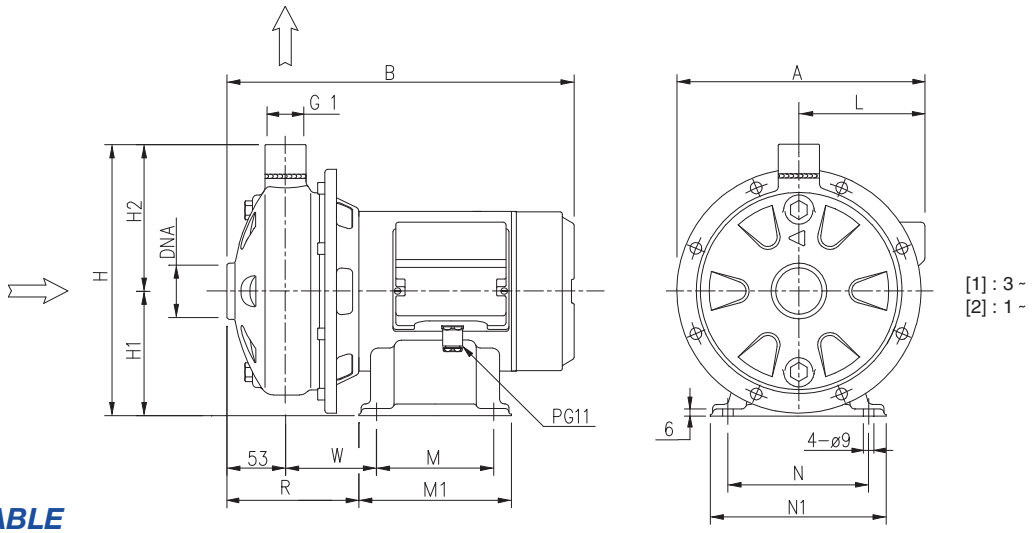
- Maximum working pressure: 8 bar
- Maximum liquid temperature:
  60°C for CD 70/05-70/07-90/10
  90°C for other models
  110°C for H and HS versions

MATERIALS

- Pump body, impeller, diffuser, casing cover, bracket, motor casing and fan cover in AISI 304
- Mechanical seal in Ceramic/Carbon/NBR
  Ceramic/Carbon/FPM (for CDH)
  SiC/SiC/FPM (for CDHS)
- Special mechanical seal are available on demand
- Shaft an AISI 303

TECHNICAL DATA

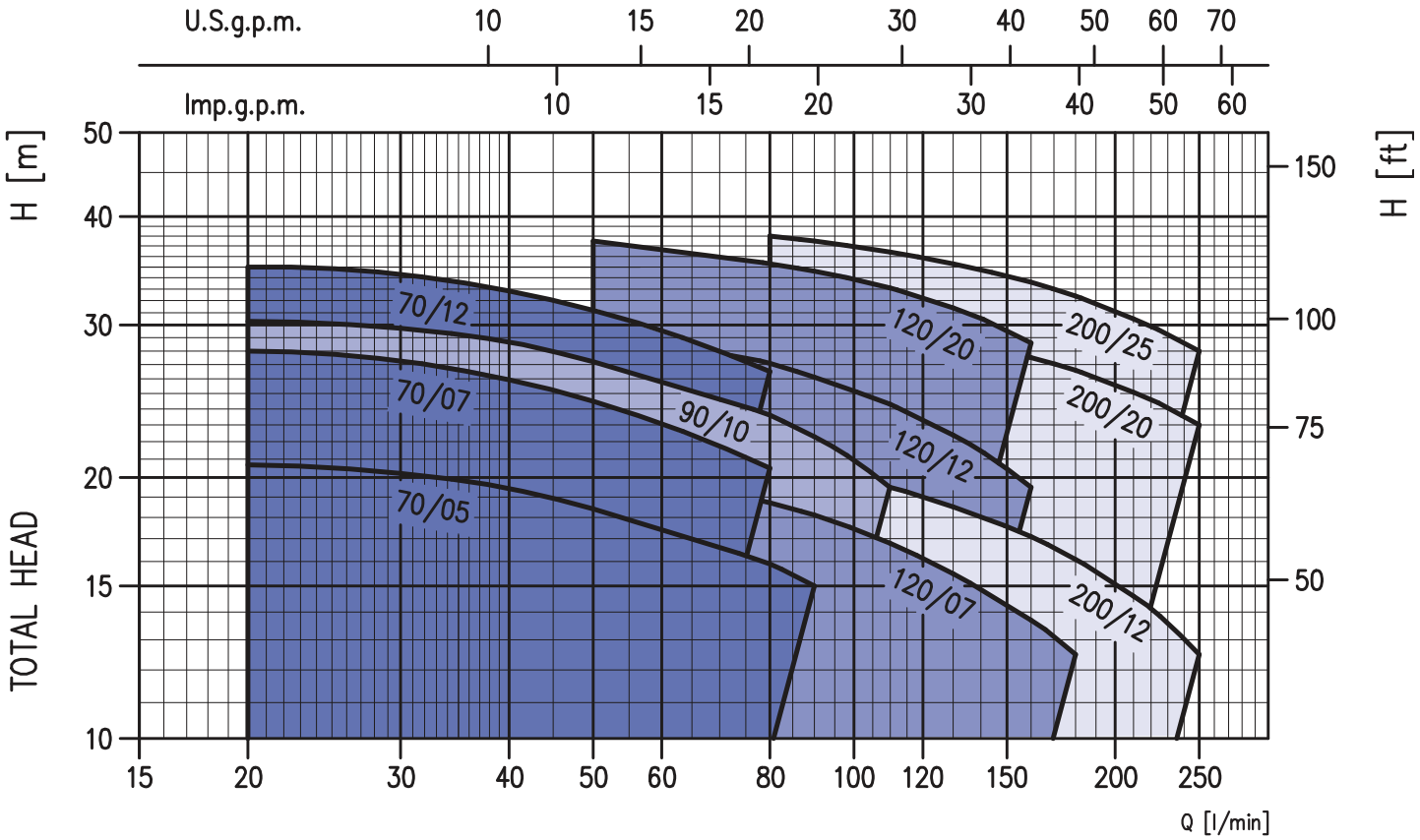
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1"1/2 for CD200, Suction 1"1/4 for the other models
- Discharge 1"



DIMENSIONAL TABLE

Pump type		Dimensions (mm)																	Weight (kg)
		A		B	H	H1	H2	L		M		M1		N	N1	R	W	DNA	
Single-phase	Three-phase	1~	3~					1~	3~	1~	3~	1~	3~						
CDM 70/05	CD 70/05	210	206	298	229	106	123	106	102	100	100	130	130	120	150	101	63	G 1 1/4	9,4
CDM 70/07	CD 70/07	210	206	298	229	106	123	106	102	100	100	130	130	120	150	101	63	G 1 1/4	10,8
CDM 70/12	CD 70/12	218	218	328	250	118	132	102	102	100	100	130	130	120	150	131	93	G 1 1/4	14,1
CDM 90/10	CD 90/10	210	206	328	229	106	123	106	102	100	100	130	130	120	150	131	93	G 1 1/4	12,4
CDM 120/07	CD 120/07	210	206	298	229	106	123	106	102	100	100	130	130	120	150	101	63	G 1 1/4	10,7
CDM 120/12	CD 120/12	206	206	328	229	106	123	102	102	100	100	130	130	120	150	101	63	G 1 1/4	13,3
CDM 120/20	CD 120/20	226	226	356	250	118	132	110	110	100	100	130	130	120	150	131	93	G 1 1/4	17,3
CDM 200/12	CD 200/12	206	206	328	229	106	123	102	102	100	100	130	130	120	150	131	93	G 1 1/2	12,7
CDM 200/20	CD 200/20	214	214	356	229	106	123	110	110	120	120	150	150	140	170	133	95	G 1 1/2	16,7
	CD 200/25	-	226	366	250	118	132	110	-	-	120	-	150	140	170	138	100	G 1 1/2	17,4

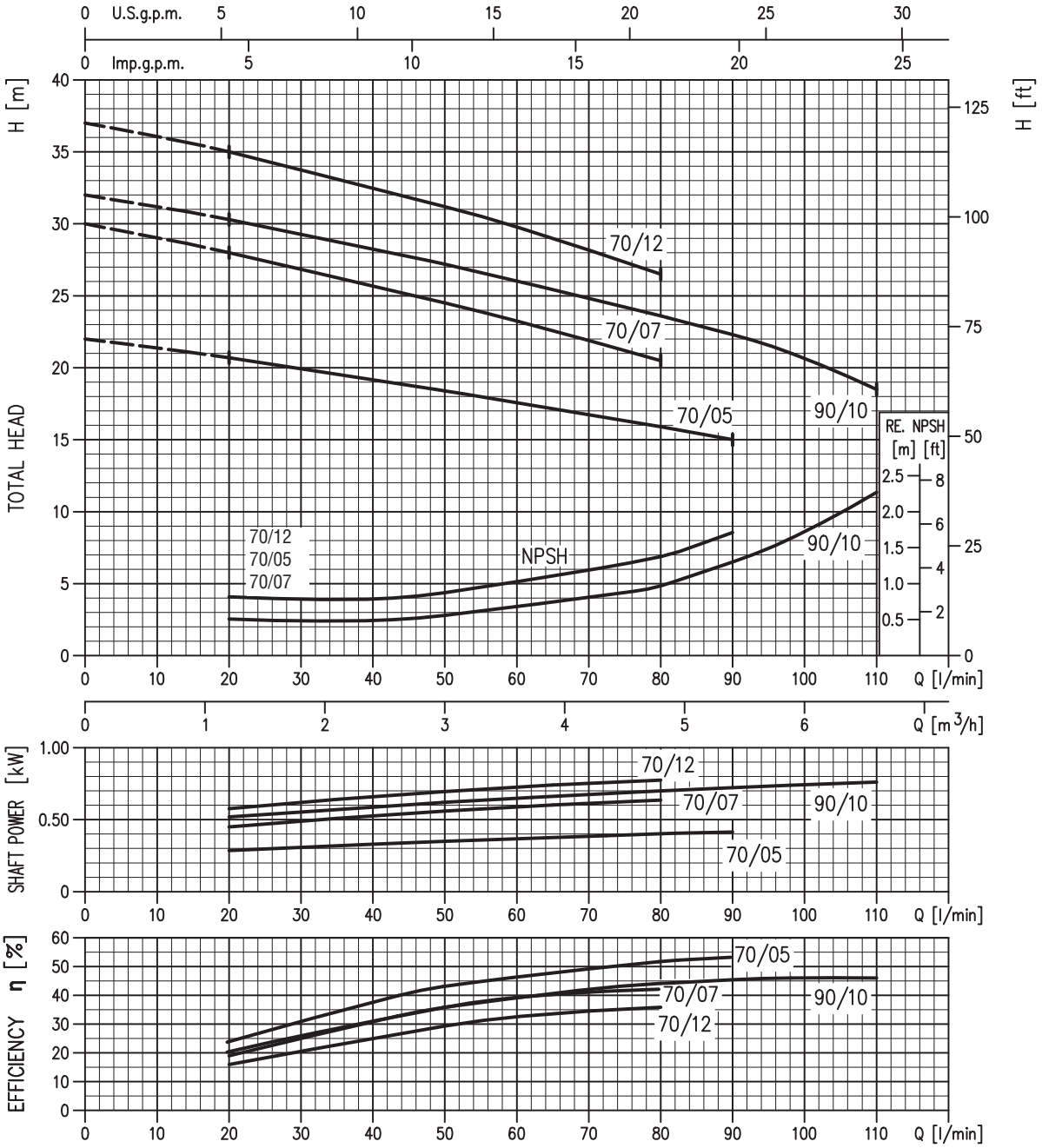
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



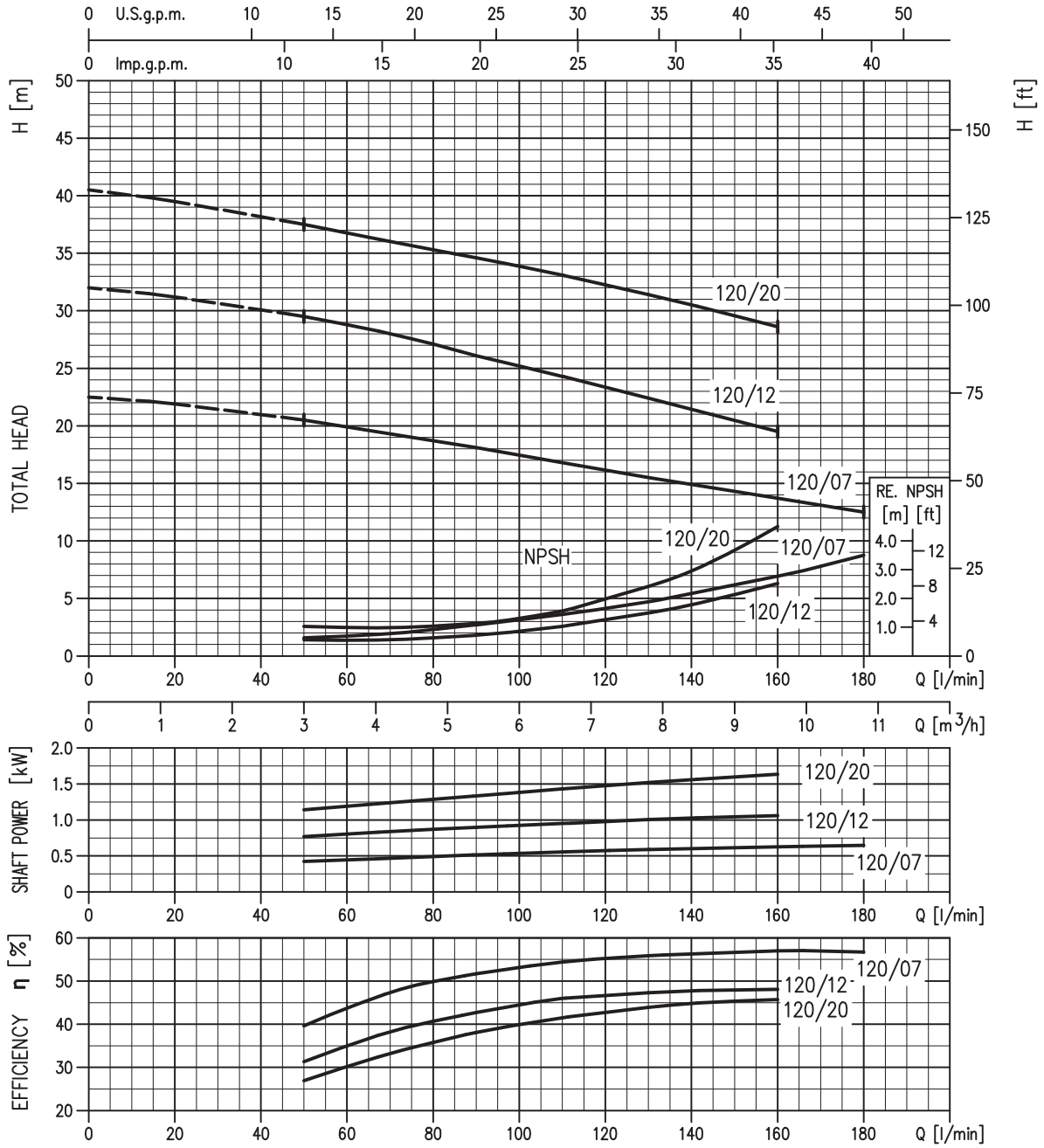
PERFORMANCE TABLE

Pump type Single-phase 230V 50Hz	Pump type Three-phase 230/400V 50Hz	kW	Capacitor µF	Capacitor Vc	Absorbed Current (A) Single-phase	Absorbed Current (A) Three-phase 230V	Absorbed Current (A) Three-phase 400V	l/min	Q=Capacity 20	50	80	90	110	130	160	180	210	250
								m³/h	1,2	3	4,8	5,4	6,6	7,8	9,6	10,8	12,6	15
									H=Total head									
CDM 70/05	CD 70/05	0,37	12,5	450	3,1	2,4	1,4		20,7	18,4	15,9	15	-	-	-	-	-	-
CDM 70/07	CD 70/07	0,55	16	450	4,6	3,5	2,0		28	24,5	20,5	-	-	-	-	-	-	-
CDM 70/12	CD 70/12	0,9	31,5	450	6,5	5,0	2,9		35	31,2	26,5	-	-	-	-	-	-	-
CDM 90/10	CD 90/10	0,75	20	450	5,6	4,0	2,3		30,3	27,2	23,6	22,3	19,5	-	-	-	-	-
CDM 120/07	CD 120/07	0,55	16	450	4,6	3,2	1,85		-	20,5	18,7	18,1	16,8	15,5	13,7	12,5	-	-
CDM 120/12	CD 120/12	0,9	31,5	450	6,9	4,9	2,8		-	29,5	27,1	26,1	24,3	22,4	19,5	-	-	-
CDM 120/20	CD 120/20	1,5	40	450	9,7	7,0	4,0		-	37,5	35,3	34,6	33,1	31,4	28,6	-	-	-
CDM 200/12	CD 200/12	0,9	31,5	450	6,3	4,7	2,7		-	-	20,6	20,2	19,5	18,5	17,1	16,1	14,6	12,5
CDM 200/20	CD 200/20	1,5	40	450	9,8	7,0	4,0		-	-	31	30,6	29,7	28,9	27,5	26,6	25,1	23
	CD 200/25	1,8	-	-	-	8,6	5,0		-	-	38	37,5	36,4	35,3	33,6	32,4	30,5	28

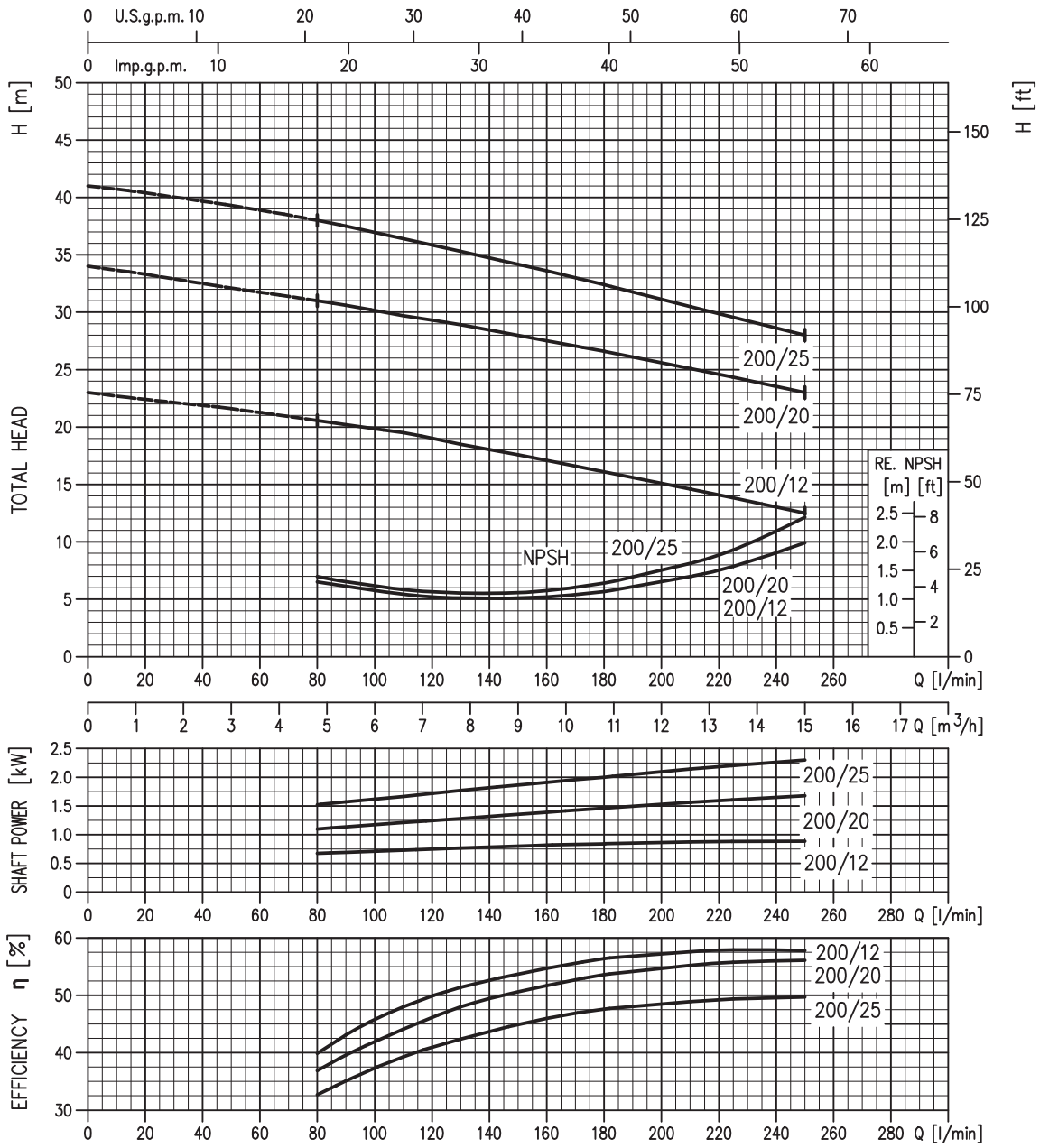
PERFORMANCE CURVES CD 70-90 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES CD 120 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES CD 200 series (according to ISO 9906 Annex A)



Twin impeller centrifugal pumps manufactured from stainless steel AISI 304, suitable for water supply, treatment and irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids

SPECIFICATIONS

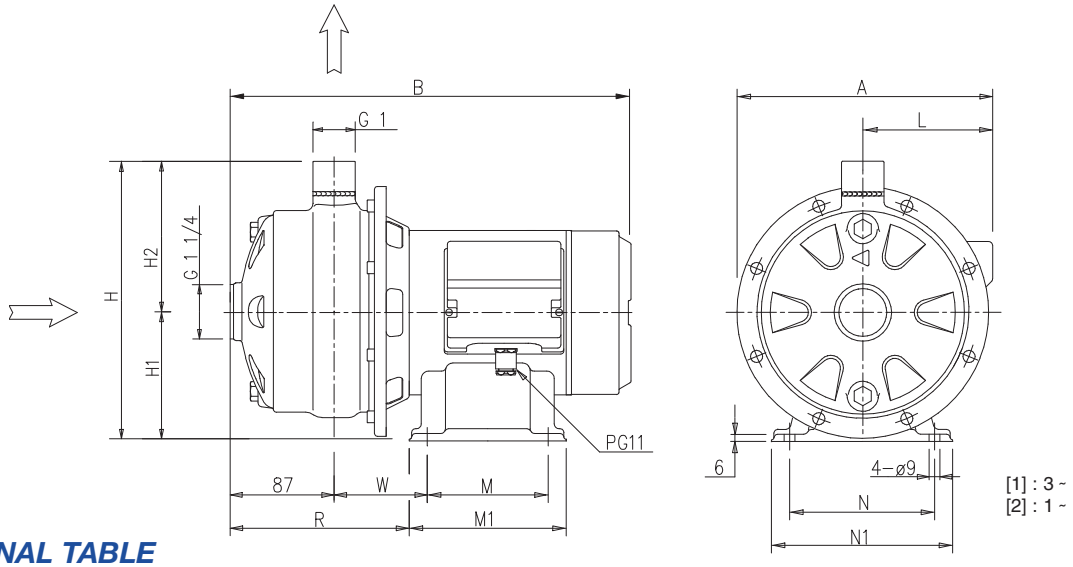
- Maximum working pressure: 8 bar
- Maximum liquid temperature:
  60°C
  110°C (2CDH)

MATERIALS

- Pump body, impeller, diffuser, casing cover, bracket, shaft, motor casing and fan cover in AISI 304
- Mechanical seal in Ceramic/Carbon/NBR (2CD)
  Ceramic/Carbon/FPM (2CDH)
  SiC/SiC/FPM (2CDHS)
- Special mechanical seal are available on demand

TECHNICAL DATA

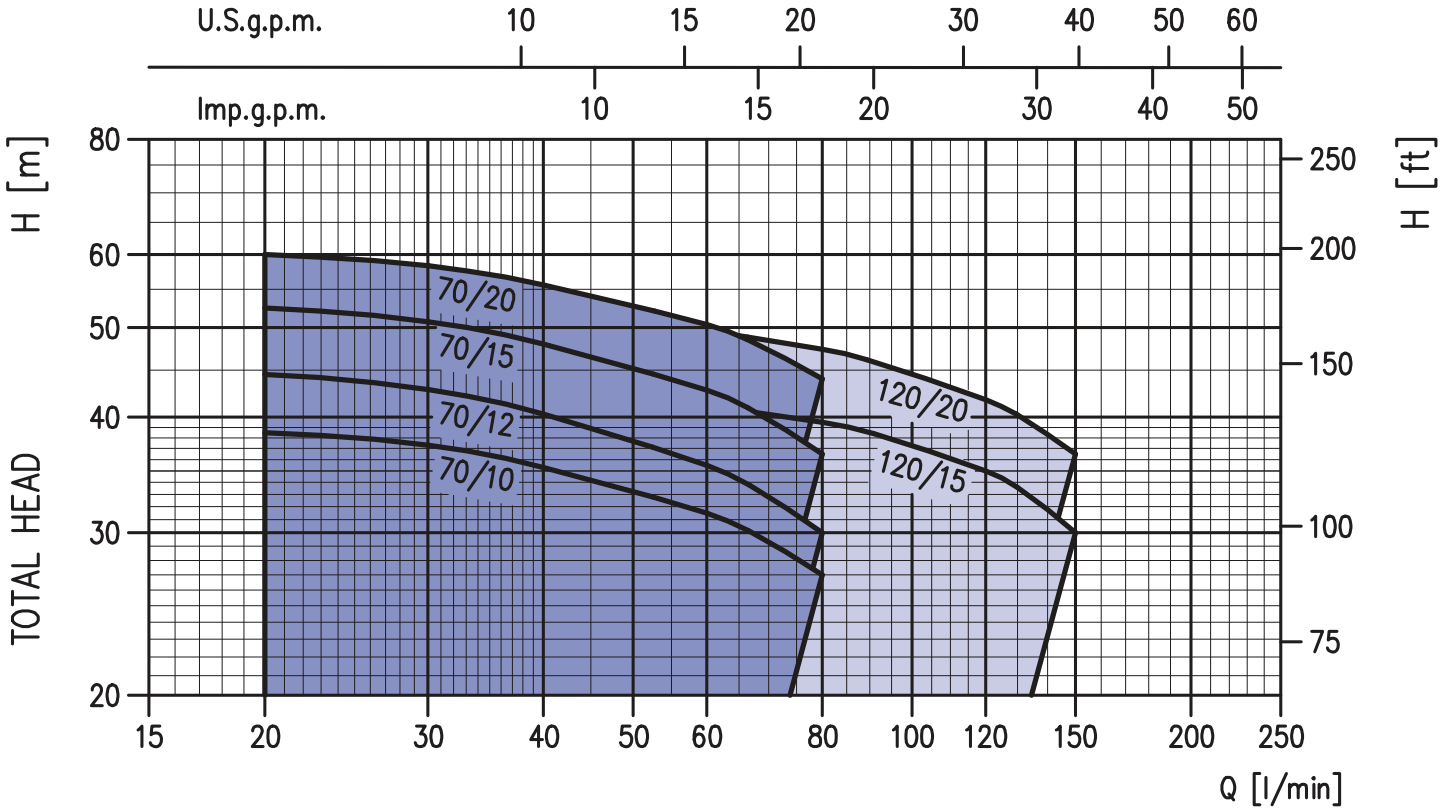
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1" - Suction 1"1/4



DIMENSIONAL TABLE

Pump type		Dimensions (mm)															Weight (kg)	
		A		B		H	H1	H2	L		M	M1	N	N1	R	W		
Single-phase	Three-phase	1~	3~	1~	3~				1~	3~							1~	3~
2CDM 70/10	2CD 70/10	210	206	363	363	229	106	123	106	102	100	130	120	150	164	93	14	14
2CDM 70/12	2CD 70/12	206	206	363	363	229	106	123	102	102	100	130	120	150	164	93	14,7	14,7
2CDM 70/15	2CD 70/15	226	226	375	393	229	106	123	110	110	120	150	140	170	170	95	17,8	17,8
2CDM 70/20	2CD 70/20	214	214	393	393	229	106	123	110	110	120	150	140	170	170	95	19,8	18,8
2CDM 120/15	2CD 120/15	214	214	375	393	229	106	123	110	110	120	150	140	170	170	95	16,1	15,8
2CDM 120/20	2CD 120/20	214	214	393	393	229	106	123	110	110	120	150	140	170	176	95	17,8	17,5

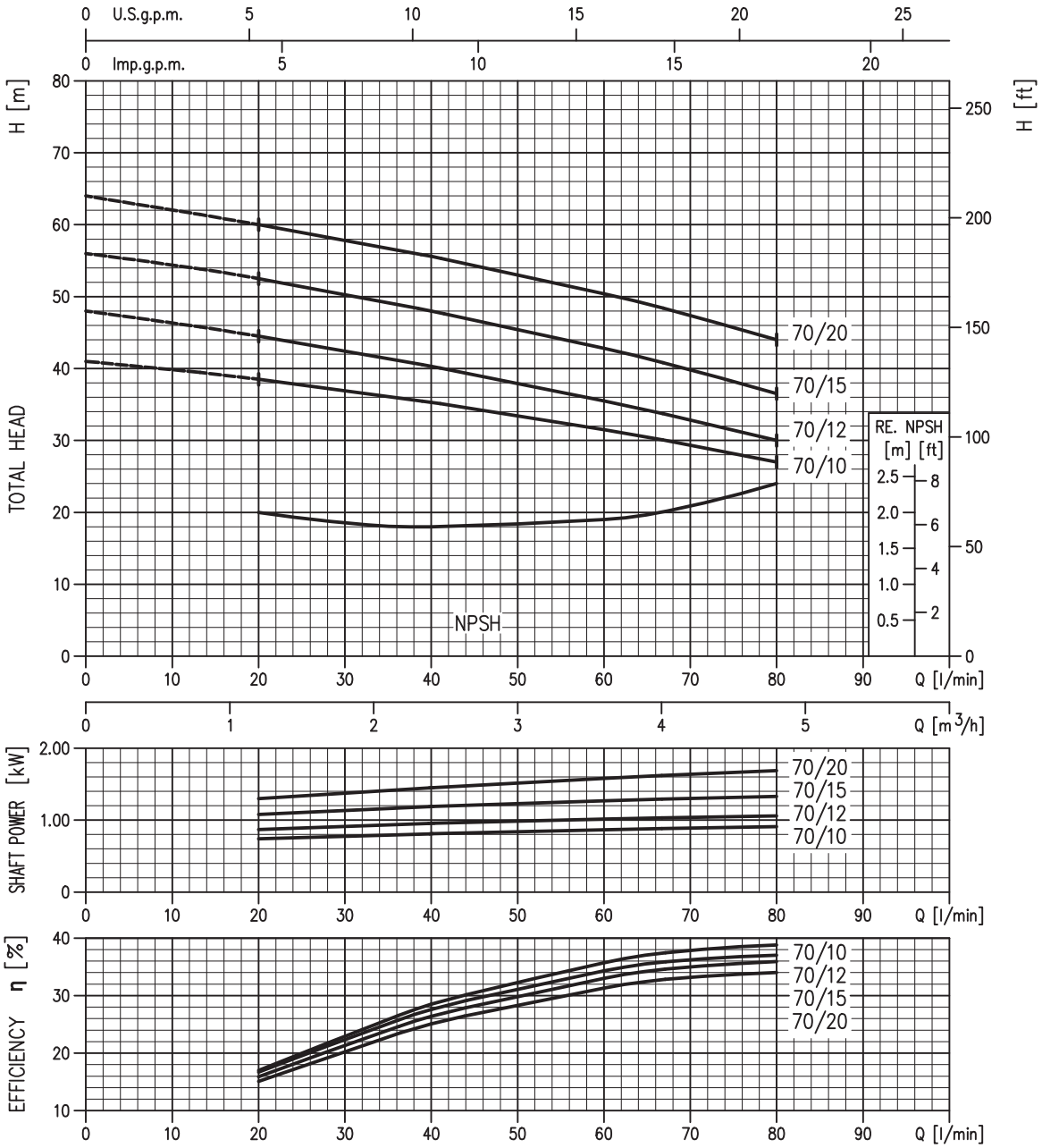
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



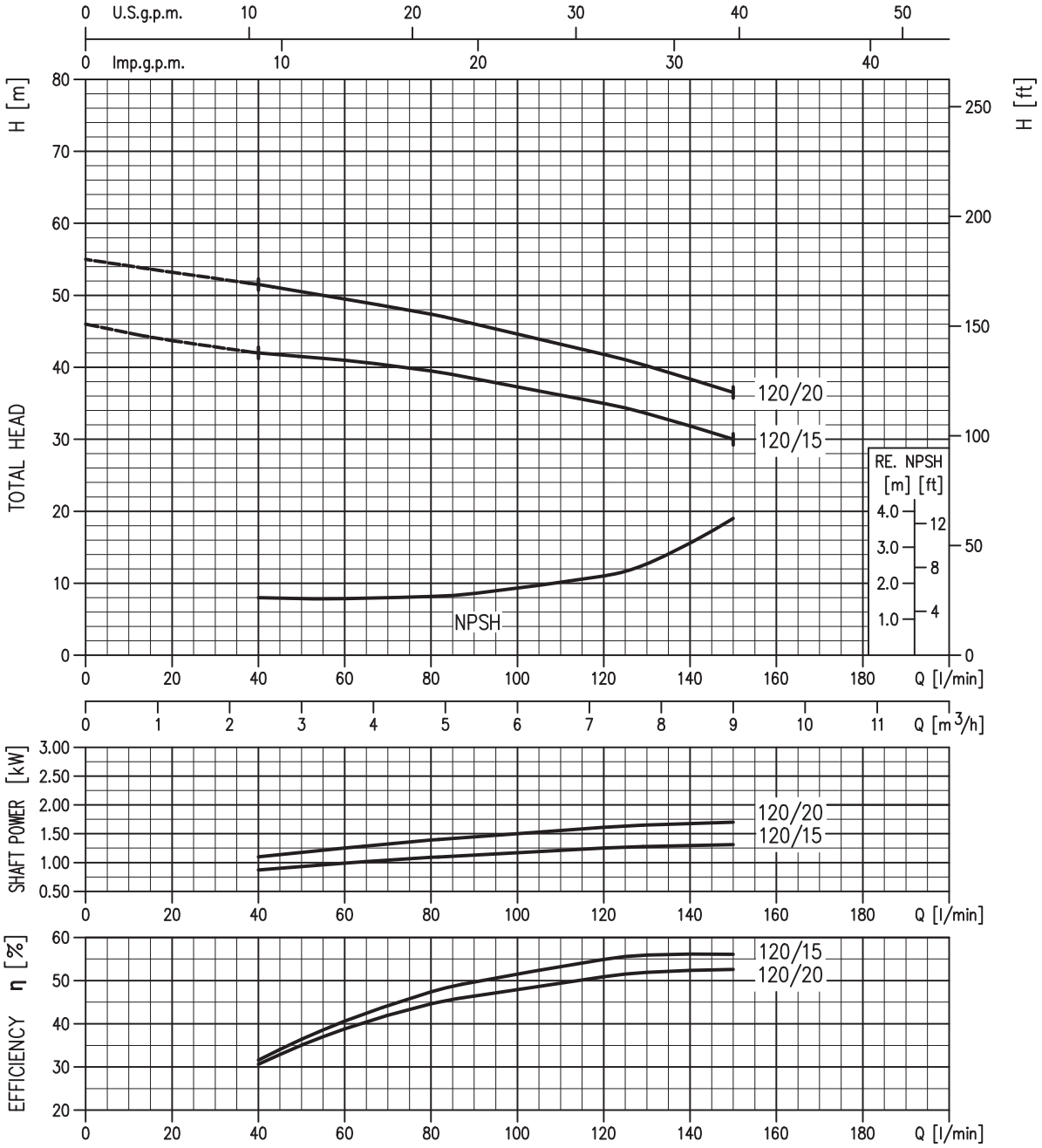
PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	three-phase 230V	three-phase 400V	m³/h	20	40	60	80	120	150
									1,2	2,4	3,6	4,8	7,2	9
									H=Total head					
2CDM 70/10	2CD 70/10	0,75	20	450	5,8	4,0	2,3		38,5	35,3	31,5	27	-	-
2CDM 70/12	2CD 70/12	0,9	31,5	450	7,0	5,0	2,9		44,5	40,3	35,5	30	-	-
2CDM 70/15	2CD 70/15	1,1	35	450	8,1	5,6	3,3		52,5	48	42,8	36,5	-	-
2CDM 70/20	2CD 70/20	1,5	40	450	10,0	7,0	4,0		60	55,6	50,4	44	-	-
2CDM 120/15	2CD 120/15	1,1	35	450	8,3	5,6	3,3		-	42	41	39,5	35	30
2CDM 120/20	2CD 120/20	1,5	40	450	10,2	7,0	4,0		-	51,5	49,5	47,4	41,8	36,5

PERFORMANCE CURVES 2CD 70 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES 2CD 120 series (according to ISO 9906 Annex A)



Single impeller centrifugal pumps with hydraulic components manufactured from stainless steel AISI 304, suitable for pressure boosting, water supply, treatment and irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids

SPECIFICATIONS

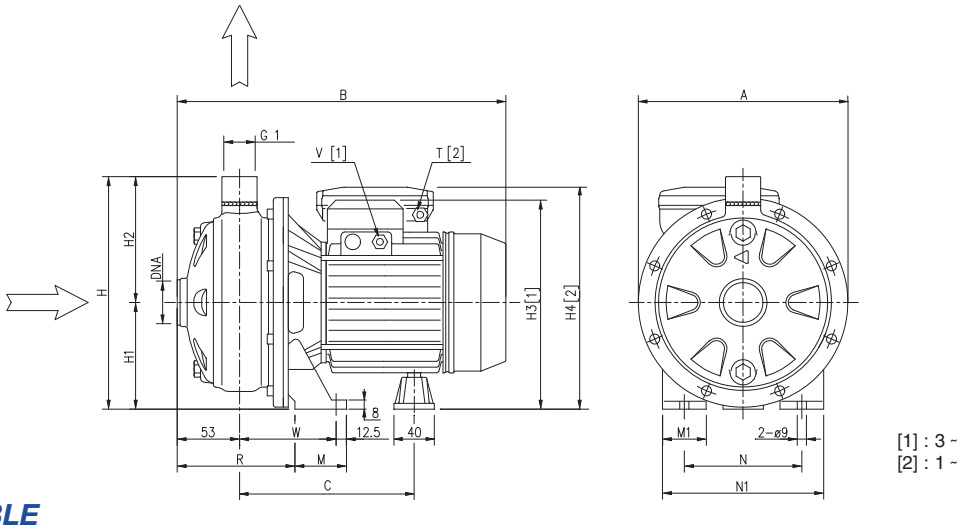
- Maximum working pressure: 8 bar
- Maximum liquid temperature:
  60°C for CDX 70/05-70/07-90/10
  90°C for other models
  110° for H and HS versions

MATERIALS

- Pump body, impeller, diffuser and casing cover in AISI 304
- Shaft in AISI 303
- Bracket and motor casing in alluminium
- Mechanical seal in Ceramic/Carbon/NBR (for CDX)
  Ceramic/Carbon/FPM (for CDXH)
  SiC/SiC/FPM (for CDXHS)
- Special mechanical seal are available on demand

TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1"1/2 for CDX200, Suction 1"1/4 for the other models
- Discharge 1"

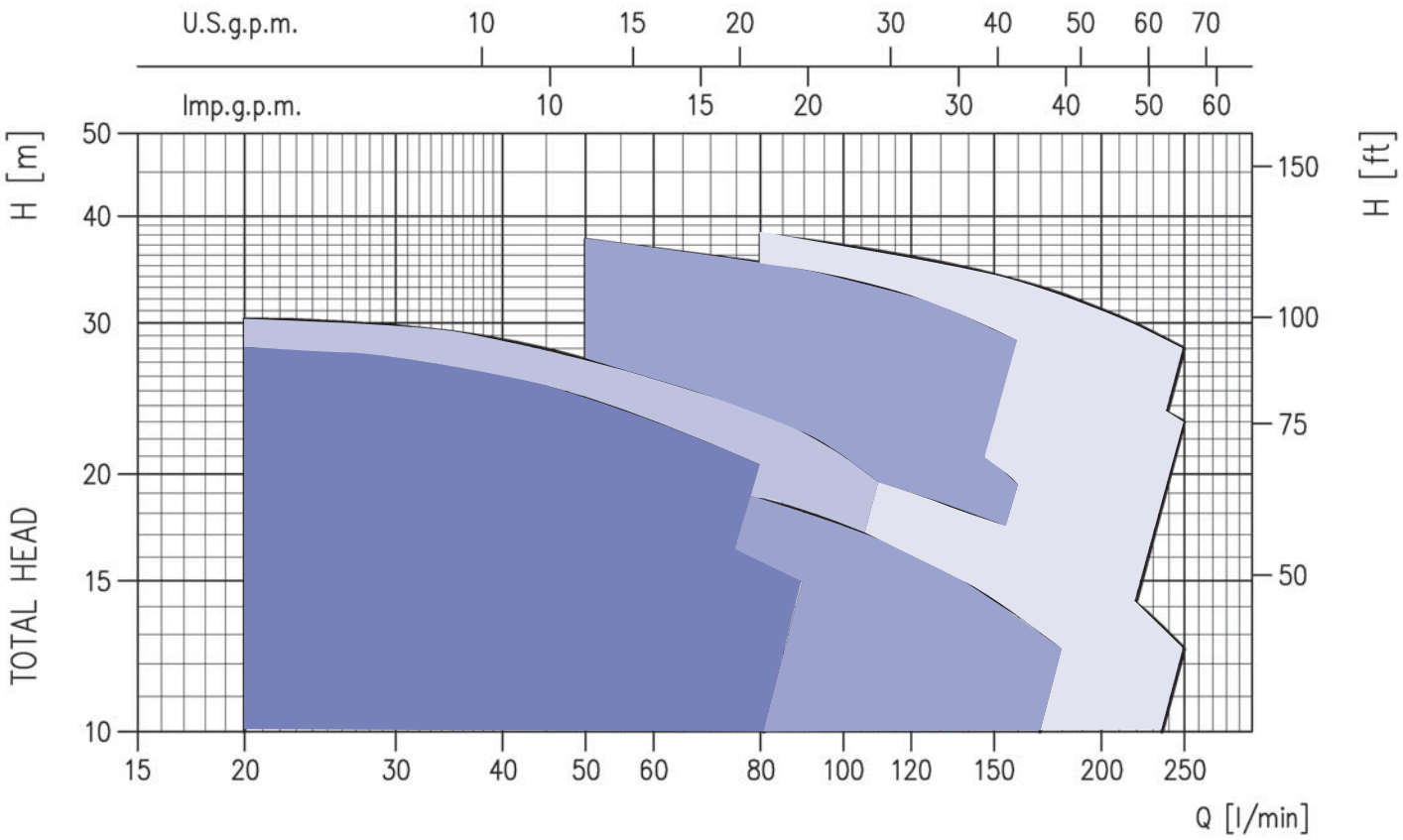


[1] : 3 ~
[2] : 1 ~

DIMENSIONAL TABLE

Pump type		Dimensions (mm)																Weight (kg)	
		A	B	C	H	H1	H2	H3	H4	M	M1	N	N1	R	T	W	DNA		
Single-phase	Three-phase																	Single-phase	Three-phase
CDXM 70/05	CDX 70/05	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 1/4	9,1	9,1
CDXM 70/07	CDX 70/07	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 1/4	10,4	10,4
CDXM 90/10	CDX 90/10	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 1/4	11,9	11,9
CDXM 120/07	CDX 120/07	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 1/4	10,4	10,4
CDXM 120/12	CDX 120/12	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG13,5	92,5	G 1 1/4	12,5	12,5
CDXM 120/20	CDX 120/20	232	345	199	250	118	132	235	253	55	40	140	180	105,5	PG13,5	95	G 1 1/4	17,2	16,2
CDXM 200/12	CDX 200/12	208	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG13,5	92,5	G 1 1/2	16,3	11,4
CDXM 200/20	CDX 200/20	208	345	199	229,5	106	123,5	223	240	55	40	140	180	105,5	PG13,5	95	G 1 1/2	15,3	14,2
	CDX 200/25	232	345	199	250	118	132	235	-	55	40	140	180	105,5	-	95	G 1 1/2	-	17

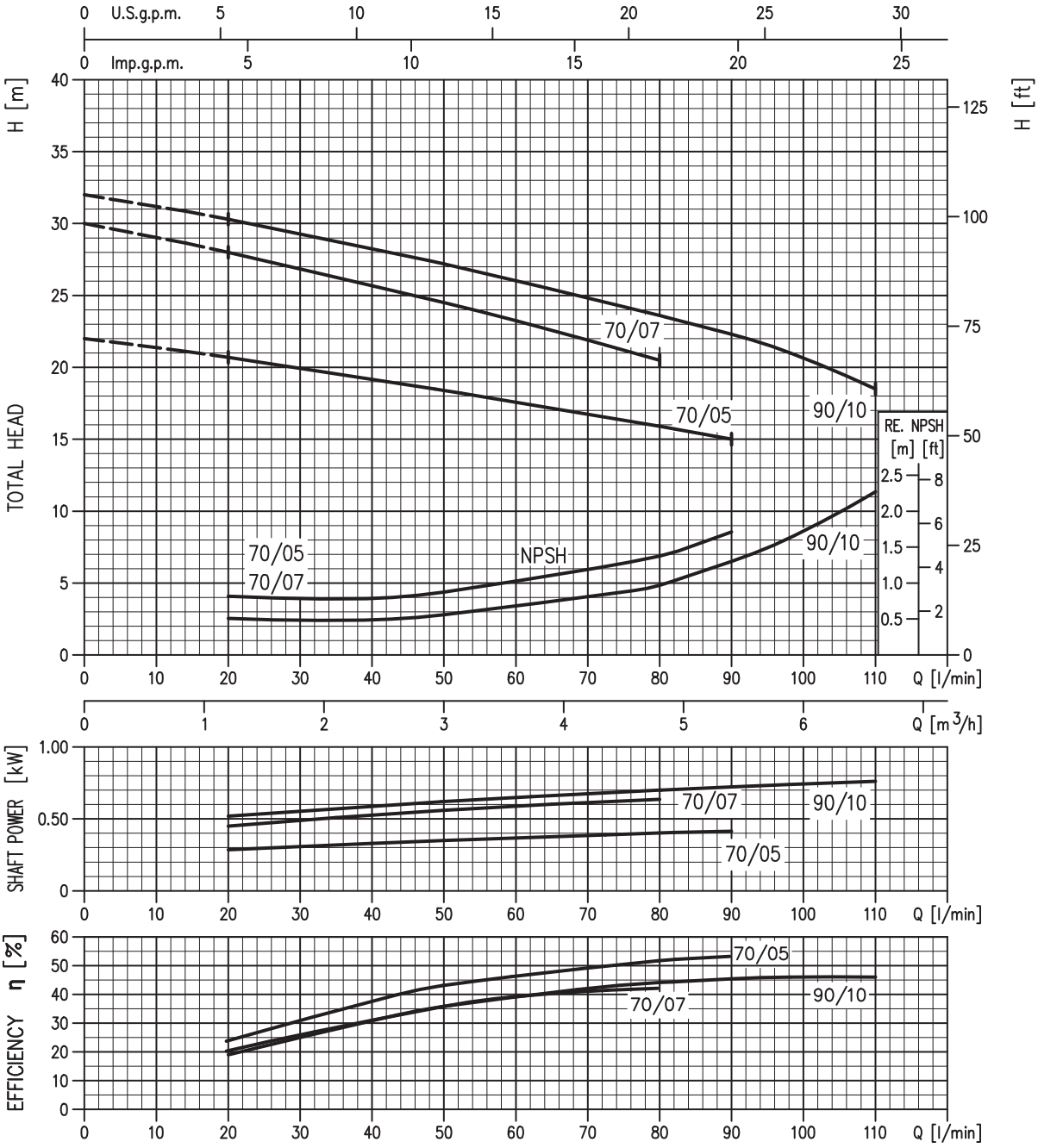
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



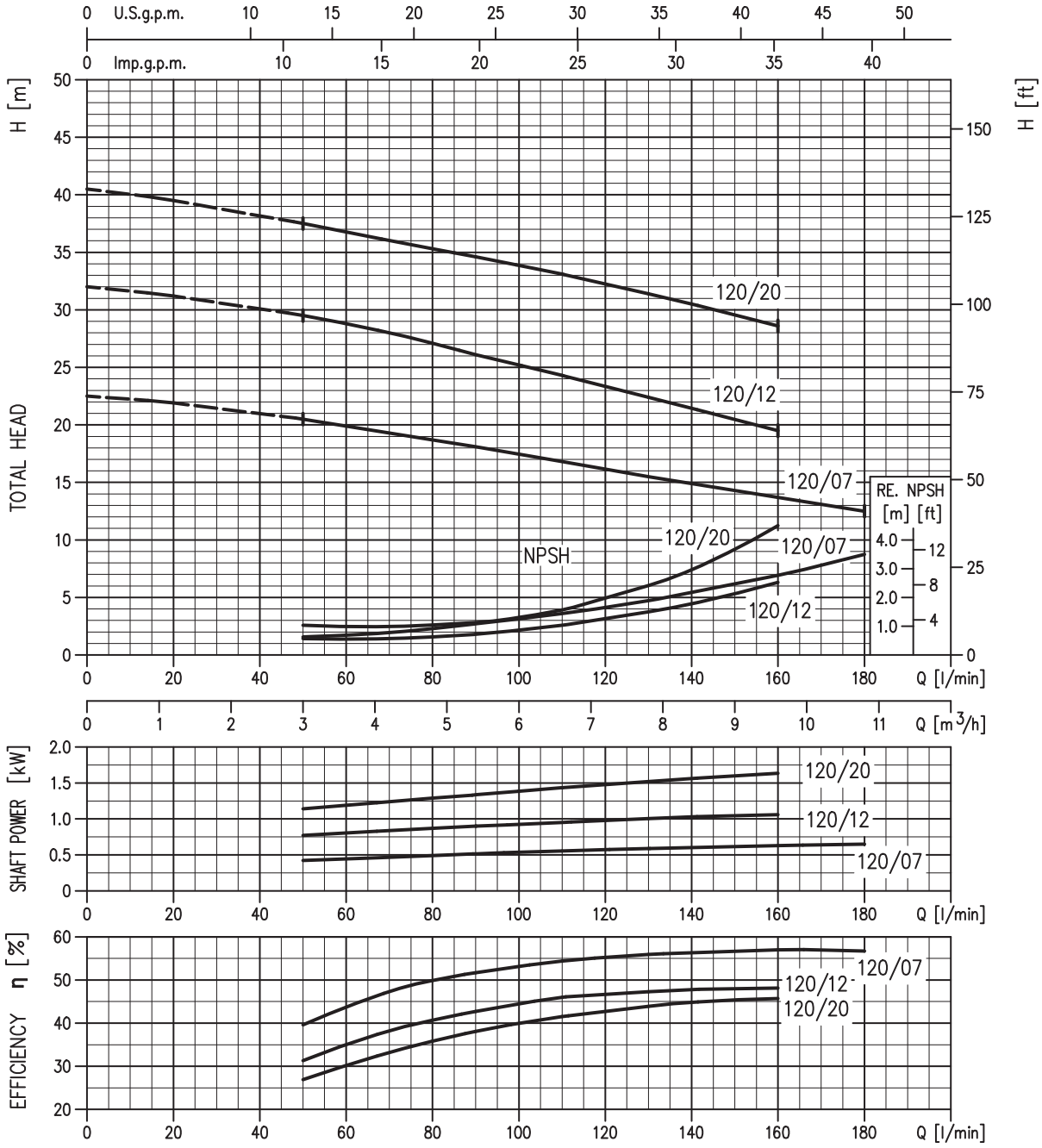
PERFORMANCE TABLE

Pump type Single-phase 230V 50Hz	Pump type Three-phase 230/400V 50Hz	kW	Capacitor µF	Capacitor Vc	Absorbed Current (A) Single-phase	Absorbed Current (A) Three-phase 230V	Absorbed Current (A) Three-phase 400V	l/min	Q=Capacity 20	50	80	90	110	130	160	180	210	250
								m³/h	1,2	3	4,8	5,4	6,6	7,8	9,6	10,8	12,6	15
									H=Total head									
CDXM 70/05	CDX 70/05	0,37	12,5	450	3,1	2,4	1,4		20,7	18,4	15,9	15	-	-	-	-	-	-
CDXM 70/07	CDX 70/07	0,55	16	450	4,6	3,5	2,0		28	24,5	20,5	-	-	-	-	-	-	-
CDXM 90/10	CDX 90/10	0,75	20	450	5,6	4,0	2,3		30,3	27,2	23,6	22,3	19,5	-	-	-	-	-
CDXM 120/07	CDX 120/07	0,55	16	450	4,6	3,2	1,9		-	20,5	18,7	18,1	16,8	15,5	13,7	12,5	-	-
CDXM 120/12	CDX 120/12	0,9	31,5	450	6,9	5,2	3,0		-	29,5	27,1	26,1	24,3	22,4	19,5	-	-	-
CDXM 120/20	CDX 120/20	1,5	40	450	9,3	7,0	4,0		-	37,5	35,3	34,6	33,1	31,4	28,6	-	-	-
CDXM 200/12	CDX 200/12	0,9	31,5	450	6,3	4,7	2,7		-	-	20,6	20,2	19,5	18,5	17,1	16,1	14,6	12,5
CDXM 200/20	CDX 200/20	1,5	40	450	10,7	7,0	4,0		-	-	31	30,6	29,7	28,9	27,5	26,6	25,1	23
	CDX 200/25	1,8	-	-	-	8,2	4,8		-	-	38	37,5	36,4	35,3	33,6	32,4	30,5	28

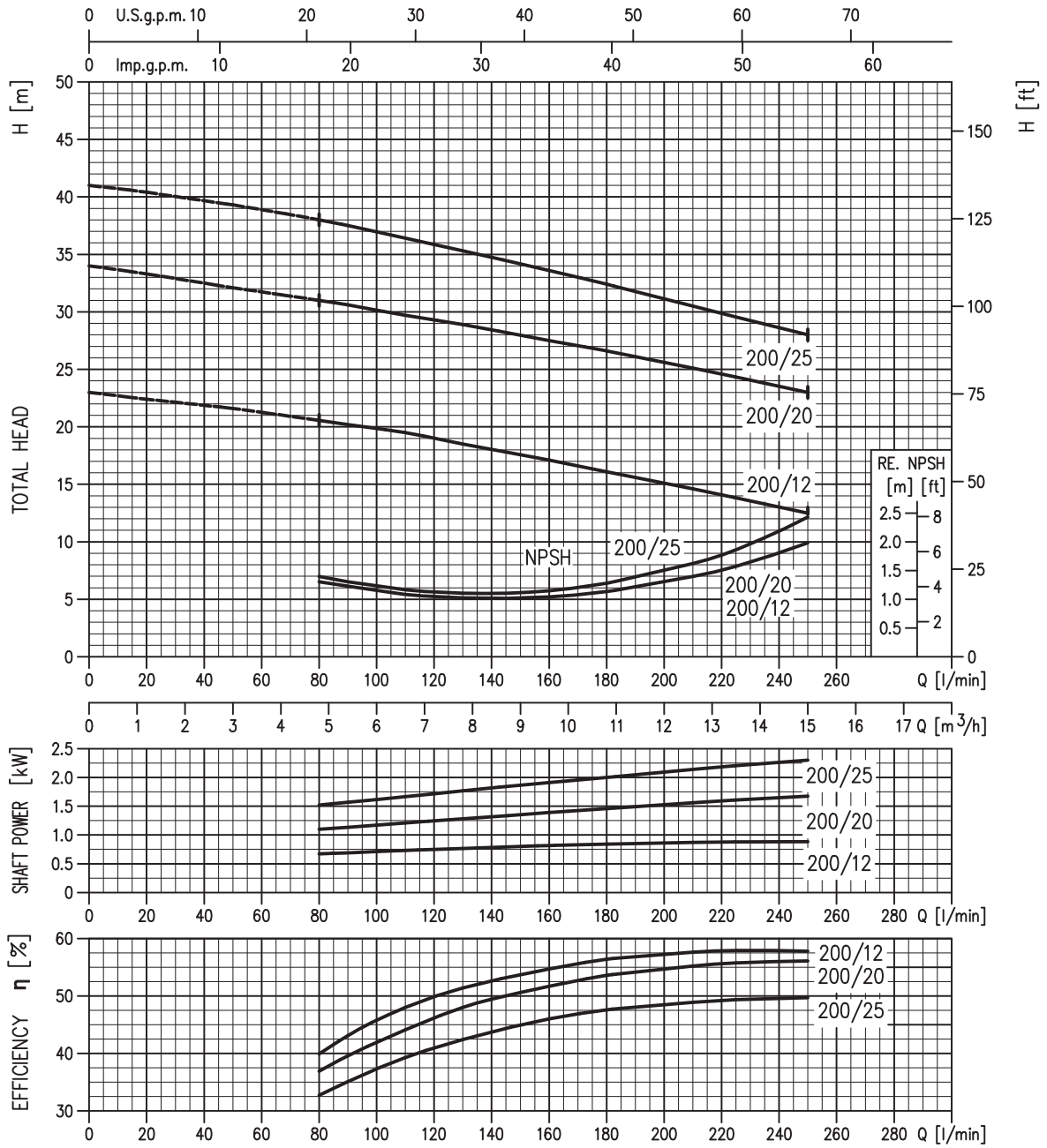
PERFORMANCE CURVES CDX 70-90 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES CDX 120 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES CDX 200 series (according to ISO 9906 Annex A)



Twin impeller centrifugal pumps with hydraulic components constructed in stainless steel AISI 304, suitable for pressure boosting, water supply, water treatment and irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids.

SPECIFICATIONS

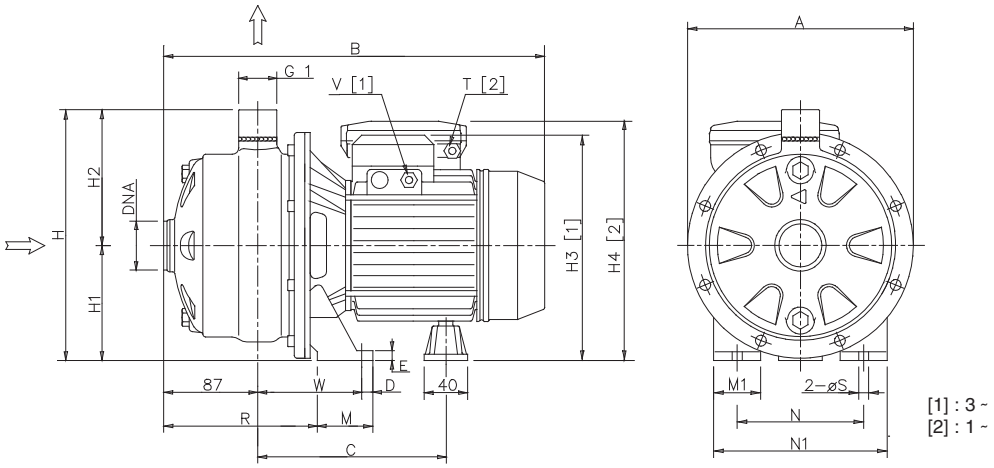
- Maximum working pressure: 8 bar
- Maximum liquid temperature:
  60°C
  110° for H and HS versions

MATERIALS

- Pump body, impeller, diffuser and casing cover in AISI 304
- Shaft in AISI 304
- Bracket in alluminium (up to 1.5 kW included), cast iron (2.2 kW and above)
- Mechanical seal in Ceramic/Carbon/NBR (2CDX)
  Ceramic/Carbon/FPM (2CDXH)
  SiC/SiC/FPM (2CDXHS)
- Special mechanical seal are available on demand

TECHNICAL DATA

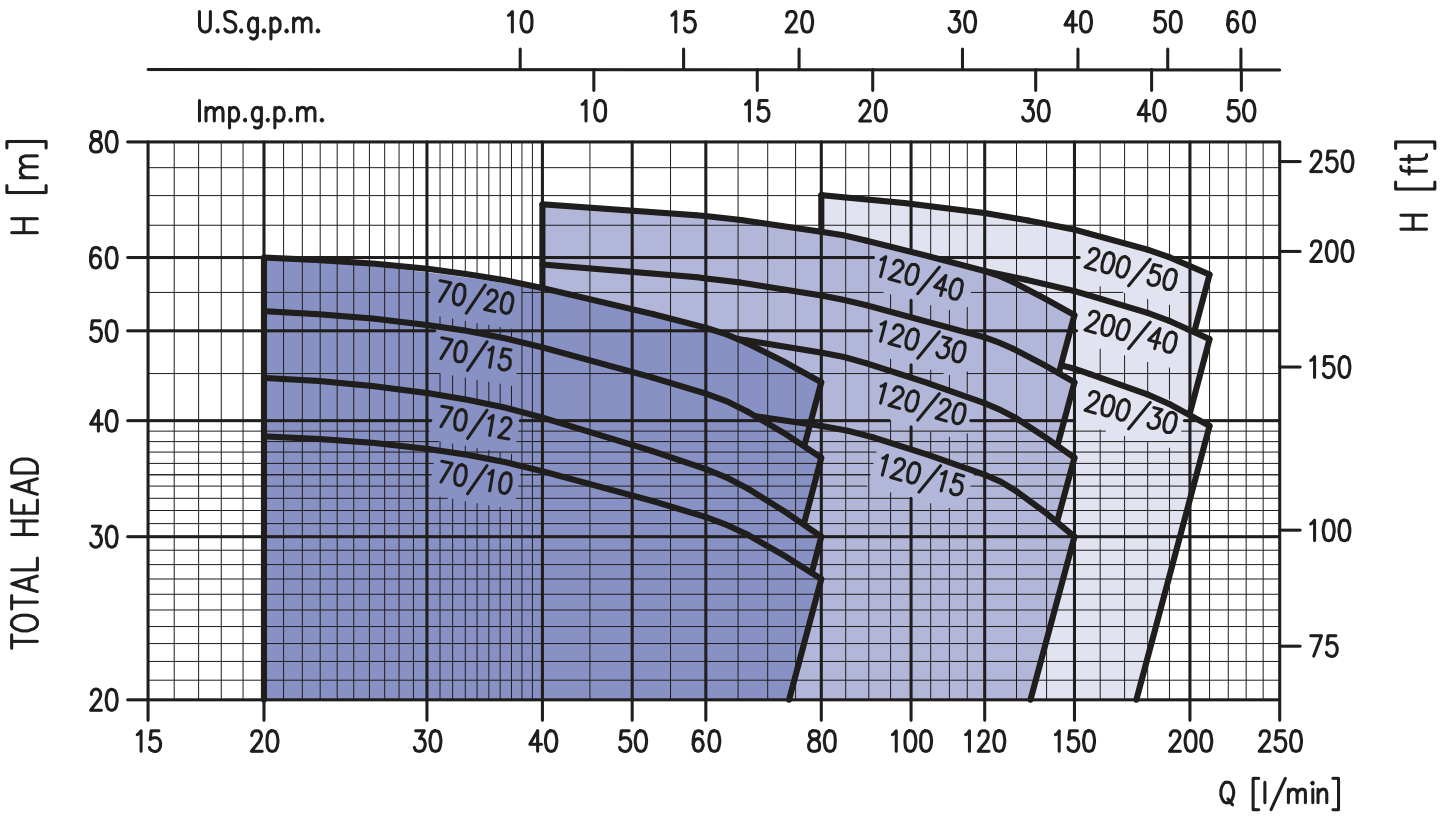
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~ 230V ± 10% 50Hz, 3~ 230/400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1"1/2 for 2CDX200
  Suction 1"1/4 for the other models
- Discharge 1"



DIMENSIONAL TABLE

Pump type		Dimensions (mm)																				Weight (kg)	
		A	B	C	D	E	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA		
Single-phase	Three-phase									1~	3~						1~	3~				Single-phase	Three-phase
2CDXM 70/10	2CDX 70/10	208	355	169	12,5	8	229	106	123	206	210	50	38	120	160	142,5	PG11	PG11	93	9	G 1 1/4	13,5	13,3
2CDXM 70/12	2CDX 70/12	208	355	169	12,5	8	229	106	123	206	231	50	38	120	160	142,5	PG13,5	PG11	93	9	G 1 1/4	14,2	13,8
2CDXM 70/15	2CDX 70/15	232	385	199	12,5	8	250	118	132	238	251	55	40	140	180	140	PG13,5	PG11	95	9	G 1 1/4	17,4	16,4
2CDXM 70/20	2CDX 70/20	232	385	199	12,5	8	250	118	132	238	251	55	40	140	180	140	PG13,5	PG11	95	9	G 1 1/4	18,6	18,2
2CDXM 120/15	2CDX 120/15	208	380	199	12,5	8	229	106	123	226	239	55	40	140	180	140	PG13,5	PG11	95	9	G 1 1/4	15,5	15,3
2CDXM 120/20	2CDX 120/20	208	380	199	12,5	8	229	106	123	226	239	55	40	140	180	140	PG13,5	PG11	95	9	G 1 1/4	18,0	16,9
-	2CDX 120/30	232	393	210	12,5	8	250	118	132	242	-	65	40	140	180	144	-	PG13,5	109	9	G 1 1/4	-	23,2
-	2CDX 120/40	232	394	210	12,5	8	250	118	132	242	-	65	40	140	180	144	-	PG13,5	109	9	G 1 1/4	-	26,4
-	2CDX 200/30	208	394	210	12,5	8	229	106	123	230	-	65	40	140	180	144	-	PG13,5	109	9	G 1 1/2	-	25,0
-	2CDX 200/40	232	394	210	12,5	8	250	118	132	242	-	65	40	140	180	144	-	PG13,5	109	9	G 1 1/2	-	25,0
-	2CDX 200/50	232	450	236	16	13	250	118	132	255	-	68	50	160	210	144	-	PG16	109	12	G 1 1/2	-	32,7

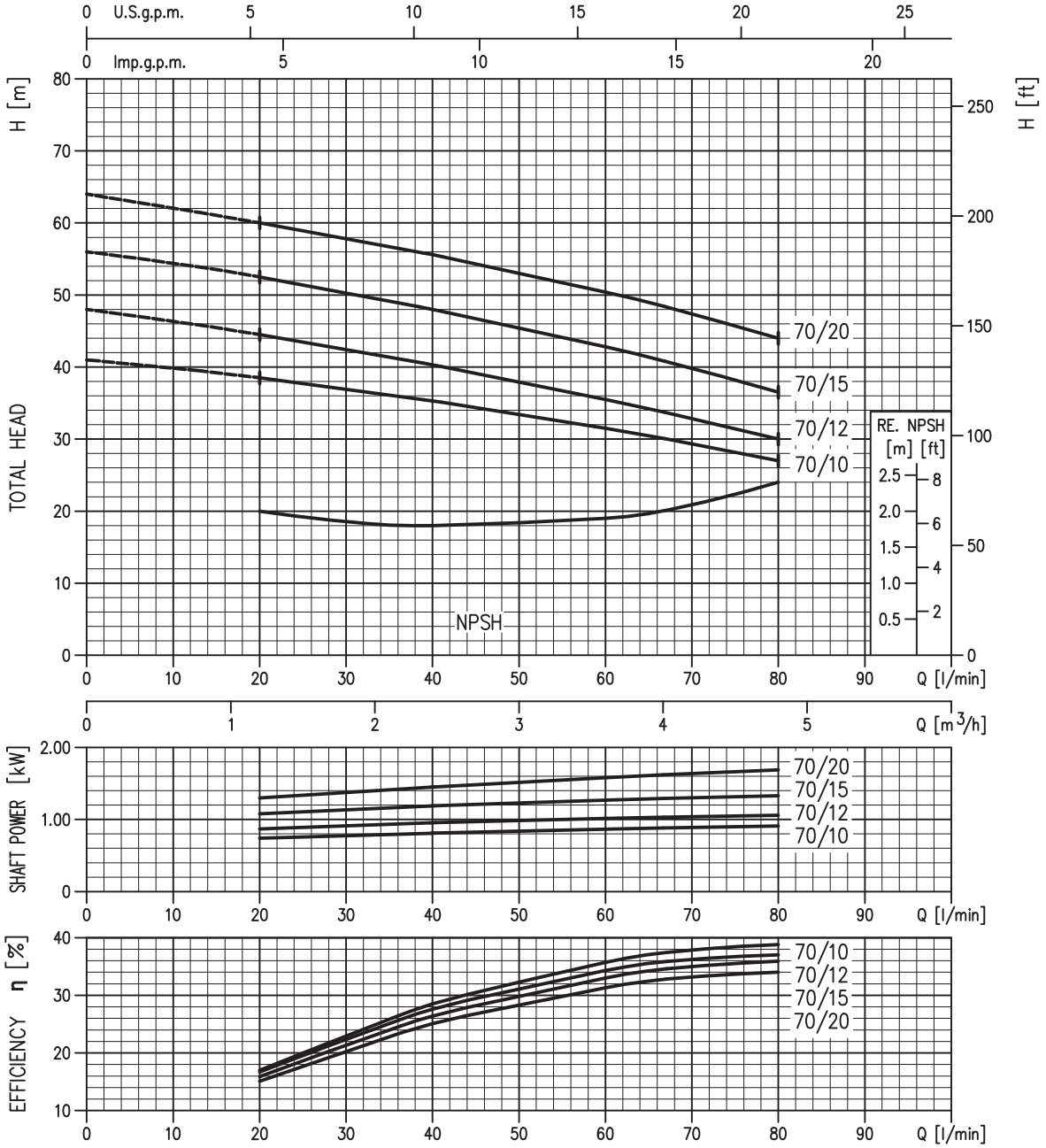
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



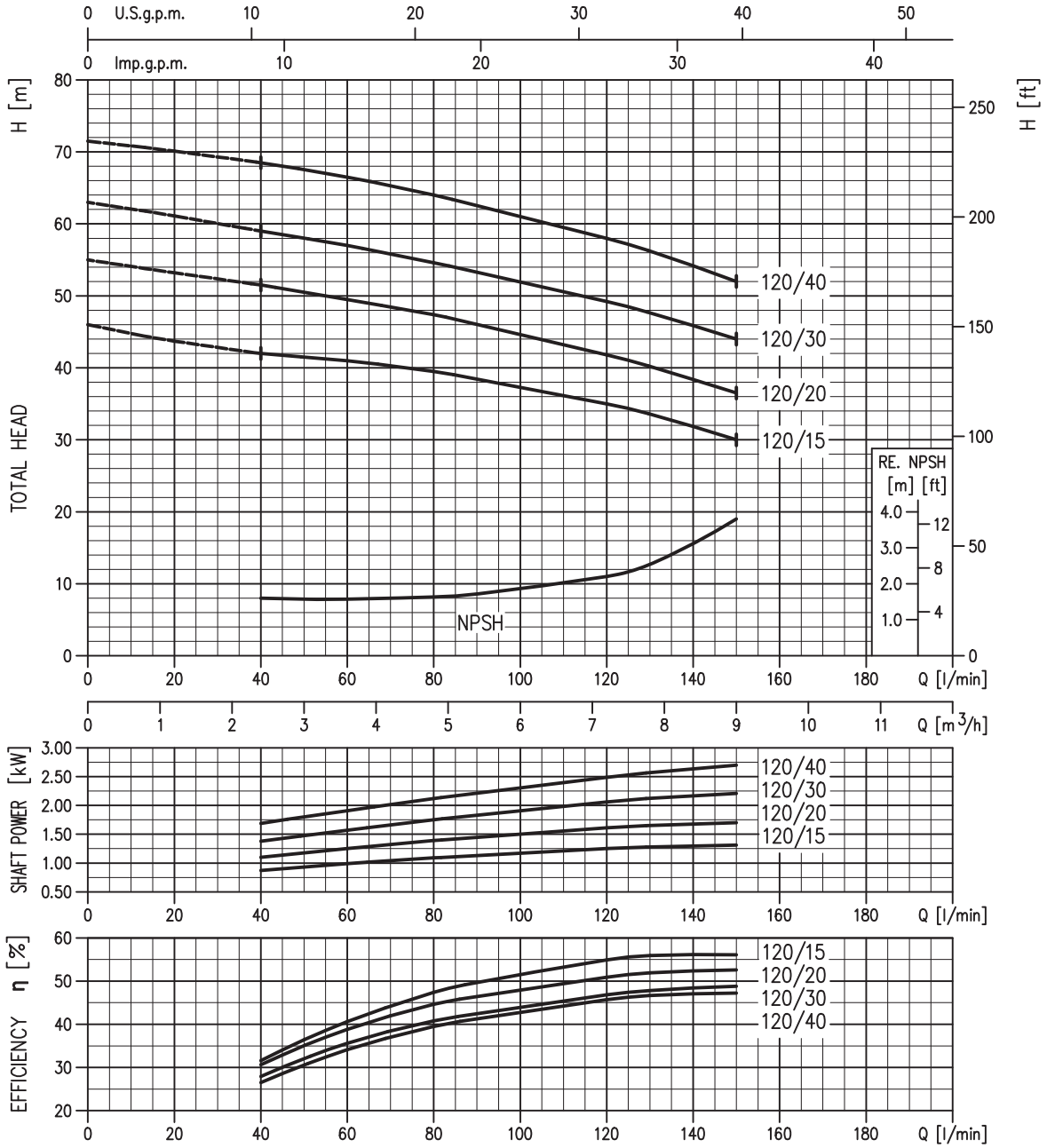
PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	20	40	60	80	120	150	180	210
									1,2	2,4	3,6	4,8	7,2	9	10,8	12,6
									H=Total head							
2CDXM 70/10	2CDX 70/10	0,75	20	450	6,0	4,0	2,3		38,5	35,3	31,5	27	-	-	-	-
2CDXM 70/12	2CDX 70/12	0,9	31,5	450	7,0	5,0	2,9		44,5	40,3	35,5	30	-	-	-	-
2CDXM 70/15	2CDX 70/15	1,1	35	450	8,0	5,6	3,2		52,5	48	42,8	36,5	-	-	-	-
2CDXM 70/20	2CDX 70/20	1,5	40	450	9,9	7,0	4,0		60	55,6	50,4	44	-	-	-	-
2CDXM 120/15	2CDX 120/15	1,1	35	450	8,3	5,6	3,2		-	42	41	39,5	35	30	-	-
2CDXM 120/20	2CDX 120/20	1,5	40	450	10,2	7,0	4,0		-	51,5	49,5	47,4	41,8	36,5	-	-
-	2CDX 120/30	2,2	-	-	-	8,7	5,0		-	59	57	54,6	49,2	44	-	-
-	2CDX 120/40	3,0	-	-	-	10,8	6,2		-	68,5	66,5	64	58	52	-	-
-	2CDX 200/30	2,2	-	-	-	10,4	6,0		-	-	52	50,8	48,1	45,5	42,7	39,5
-	2CDX 200/40	3,0	-	-	-	11,4	6,6		-	-	62,5	61,1	58	55,2	52,3	49
-	2CDX 200/50	3,7	-	-	-	15	8,7		-	-	71,5	70,1	67	64,3	61,2	57,5

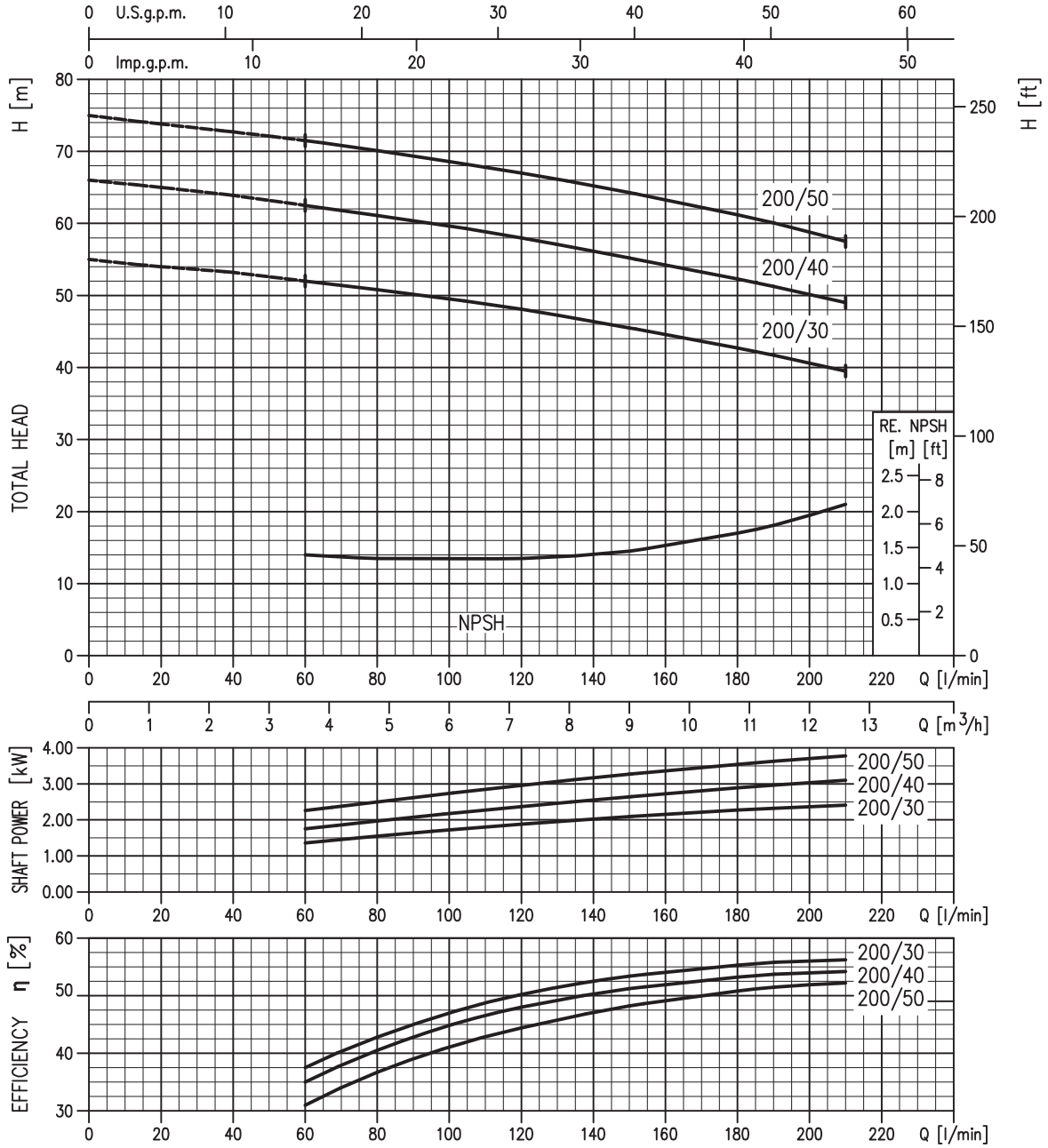
PERFORMANCE CURVES series 2CDX 70 (according to ISO 9906 Annex A)



PERFORMANCE CURVES 2CDX 120 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES 2CDX 200 series (according to ISO 9906 Annex A)



New horizontal multistage pumps with robust and compact construction for industrial application, pressure booster sets, water distribution, irrigation, rain water collection, water treatment, heating, conditioning, cooling and chiller.

SPECIFICATIONS

- Maximum liquid temperature: 110°C
- Maximum working pressure: 10 bar
- Maximum chlorine content: 500 ppm

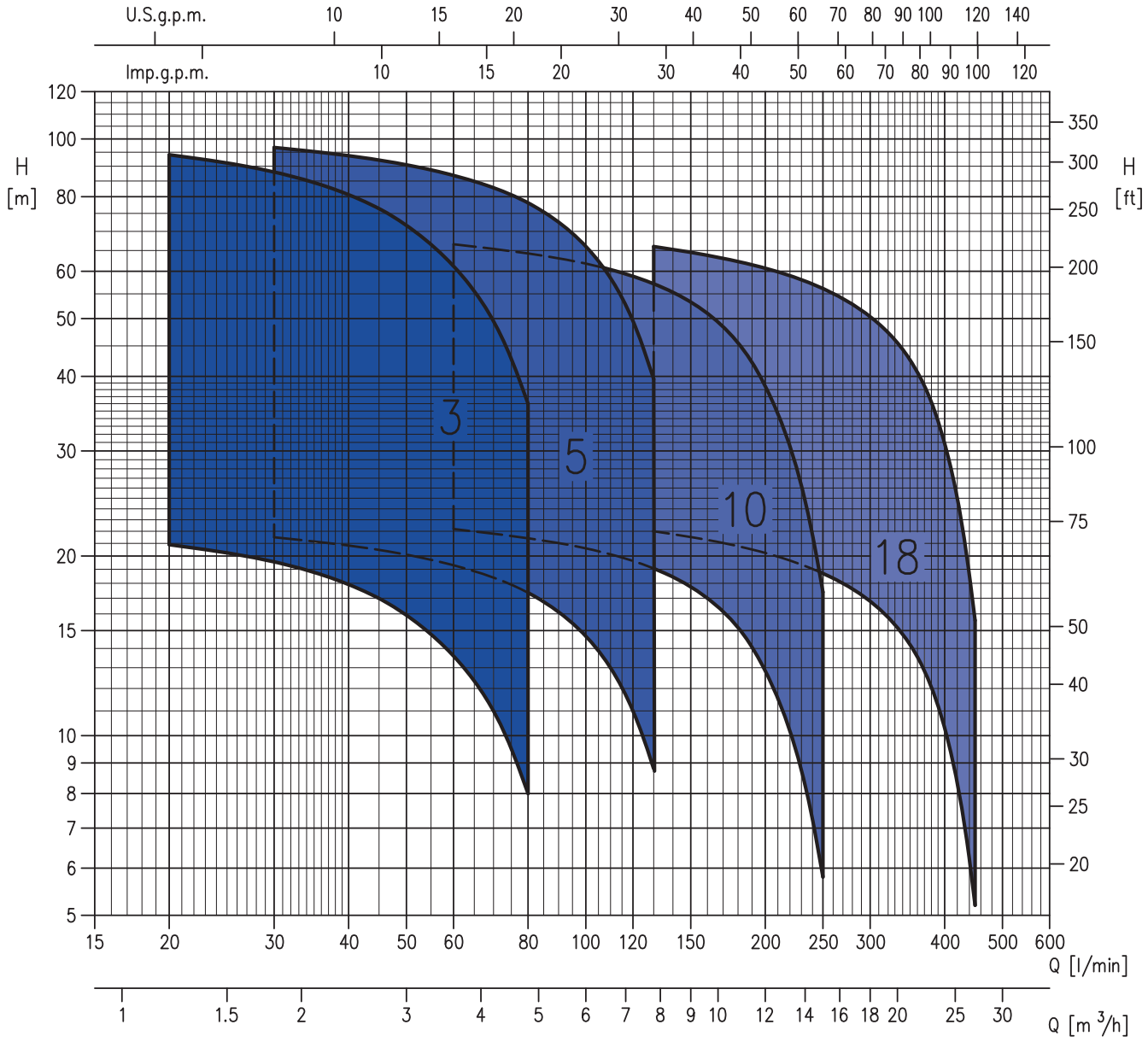
MATERIALS

- Casing, impeller, intermediate casing, casing cover and shaft in AISI 304
- Mechanical seal in Carbon/Ceramic/EPDM
- Bracket and motor casing in aluminium

TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1” for MATRIX3, 1”¼ for MATRIX 5, 1”½ for MATRIX 10, 2” for MATRIX 18
- Discharge 1” for MATRIX 3-5, 1”¼ for MATRIX 10, 1”½ for MATRIX 18

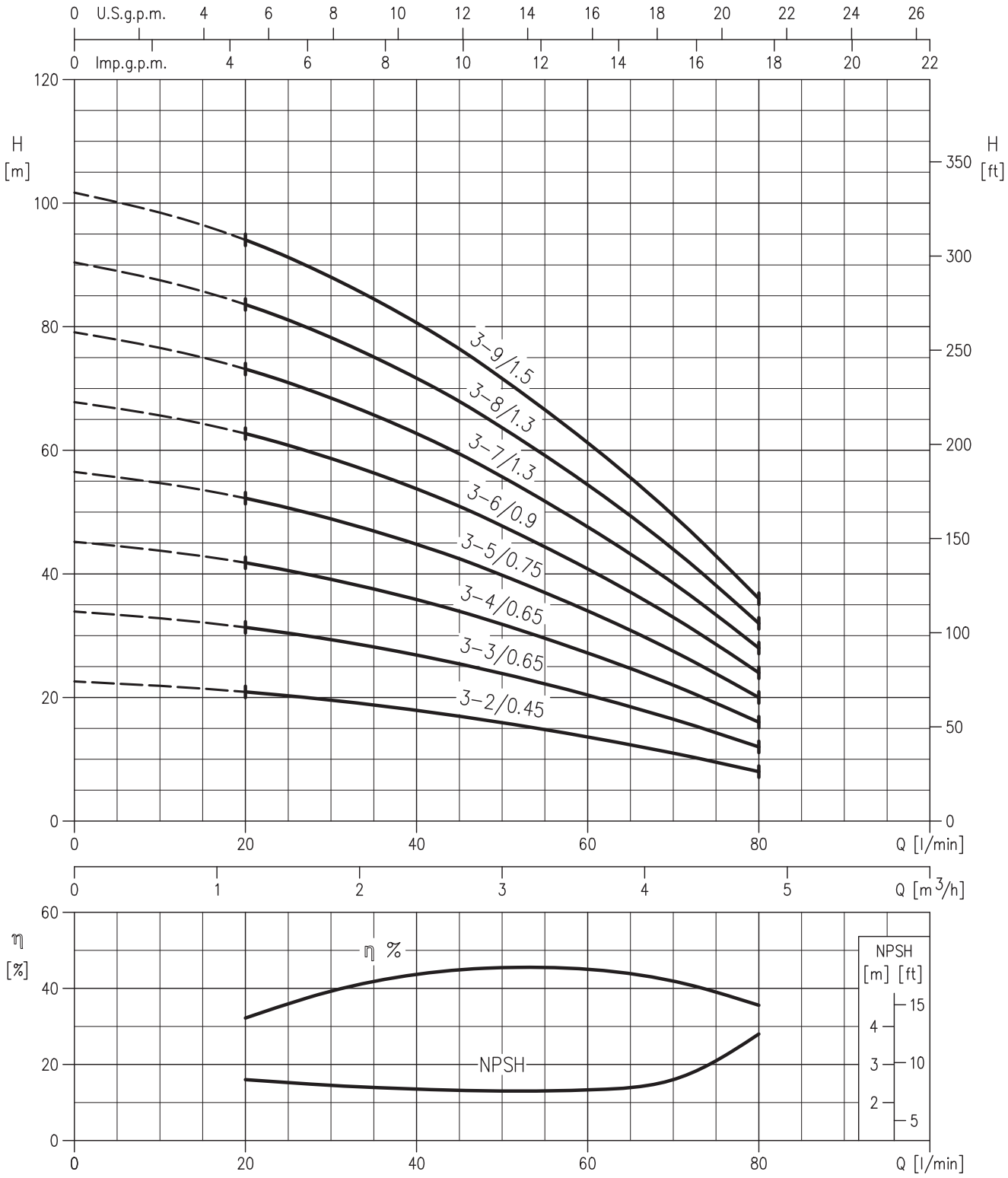
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



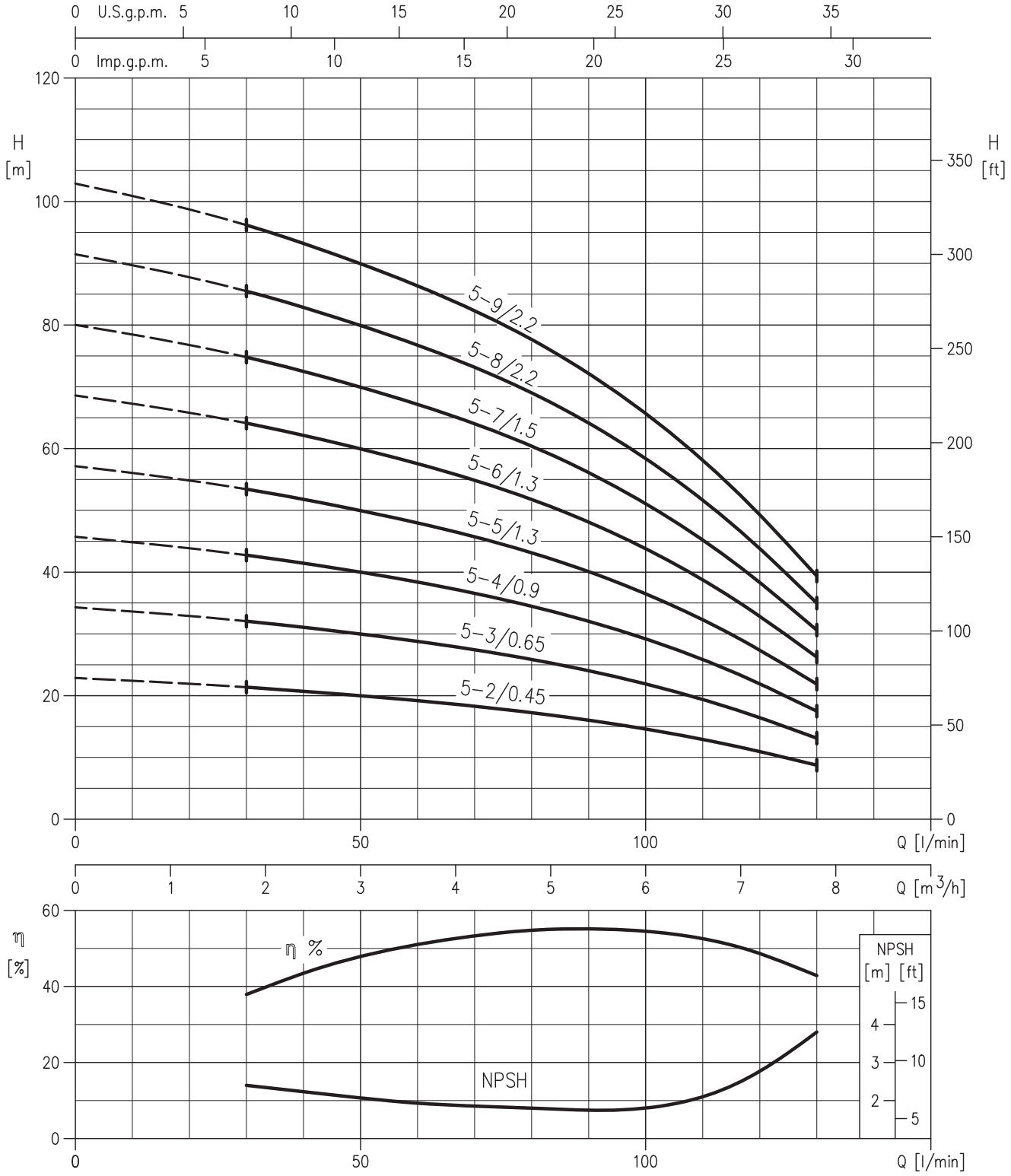
PERFORMANCE TABLE

Pump type MATRIX		Motor Power		Q=Capacity														
				l/min	0	20	30	45	60	80	100	130	160	200	250	300	350	400	450
Single-phase	Three-phase	kW	HP	m^3/h	0	1,2	1,8	2,7	3,6	4,8	6	7,8	9,6	12	15	18	21	24	27
				H=Total head															
3-2(.)/0.45M	3-2(.)/0.45	0,45	0,6	22,6	20,9	19,6	17	13,6	8	-	-	-	-	-	-	-	-	-
3-3(.)/0.65M	3-3(.)/0.65	0,65	0,9	33,9	31,4	29,3	25,5	20,4	12	-	-	-	-	-	-	-	-	-
3-4(.)/0.65M	3-4(.)/0.65	0,65	0,9	45	42	39,1	34	27,2	16	-	-	-	-	-	-	-	-	-
3-5(.)/0.75M	3-5(.)/0.75	0,75	1	56,5	52,5	49	42,5	34	20	-	-	-	-	-	-	-	-	-
3-6(.)/0.9M	3-6(.)/0.9	0,9	1,2	68	62,5	58,5	51	41	24	-	-	-	-	-	-	-	-	-
3-7(.)/1.3M	3-7(.)/1.3	1,3	1,8	79	73	68,5	59,5	47,5	28	-	-	-	-	-	-	-	-	-
3-8(.)/1.3M	3-8(.)/1.3	1,3	1,8	90,5	83,5	78	68	54,5	32	-	-	-	-	-	-	-	-	-
3-9(.)/1.5M	3-9(.)/1.5	1,5	2	102	94	88	76,5	61	36	-	-	-	-	-	-	-	-	-
5-2(.)/0.45M	5-2(.)/0.45	0,45	0,6	23	-	21,5	20,5	19,3	17,4	14,7	8,8	-	-	-	-	-	-	-
5-3(.)/0.65M	5-3(.)/0.65	0,65	0,9	34,5	-	32,3	30,7	29	26	22	13,2	-	-	-	-	-	-	-
5-4(.)/0.9M	5-4(.)/0.9	0,9	1,2	46	-	43	41	38,6	34,7	29,4	17,6	-	-	-	-	-	-	-
5-5(.)/1.3M	5-5(.)/1.3	1,3	1,8	57,5	-	54	51	48,5	43,5	36,7	22	-	-	-	-	-	-	-
5-6(.)/1.3M	5-6(.)/1.3	1,3	1,8	69	-	64,5	61,5	58	52	44	26,4	-	-	-	-	-	-	-
5-7(.)/1.5M	5-7(.)/1.5	1,5	2	80,5	-	75,5	72	67,5	61	51,5	30,8	-	-	-	-	-	-	-
5-8(.)/2.2M	5-8(.)/2.2	2,2	3	92	-	86	82	77	69,5	58,5	35,2	-	-	-	-	-	-	-
5-9(.)/2.2M	5-9(.)/2.2	2,2	3	104	-	97	92	87	78	66	39,6	-	-	-	-	-	-	-
10-2(.)/0.75M	10-2(.)/0.75	0,75	1	24	-	-	-	22,2	21,4	20,6	19,1	17	12,8	15,8	-	-	-	-
10-3(.)/1.3M	10-3(.)/1.3	1,3	1,8	36	-	-	-	33,3	32,1	30,9	28,6	25,5	19,3	8,7	-	-	-	-
10-4(.)/1.5M	10-4(.)/1.5	1,5	2	48	-	-	-	44,5	43	41	38,1	34	25,7	11,6	-	-	-	-
10-5(.)/2.2M	10-5(.)/2.2	2,2	3	60	-	-	-	55,5	53,5	51,5	47,5	42,5	32,1	14,5	-	-	-	-
10-6(.)/2.2M	10-6(.)/2.2	2,2	3	72	-	-	-	66,5	64,5	62	57	51	38,5	17,4	-	-	-	-
18-2(.)/1.5M	18-2(.)/1.5	1,5	2	24,2	-	-	-	-	-	-	22	21,3	20,2	18,7	16,8	14,2	10,3	5,2
18-3(.)/2.2M	18-3(.)/2.2	2,2	3	36,3	-	-	-	-	-	-	33	31,9	30,4	28,1	25,2	21,3	15,5	7,8
-	18-4(.)/3	3	4	48,5	-	-	-	-	-	-	44	42,5	40,5	37,4	33,6	28,4	20,6	10,4
-	18-5(.)/4	4	5,5	60,5	-	-	-	-	-	-	55	53	50,5	47	42	35,5	25,8	13
-	18-6(.)/4	4	5,5	72,5	-	-	-	-	-	-	66	64	60,5	56	50,5	42,5	30,9	15,6

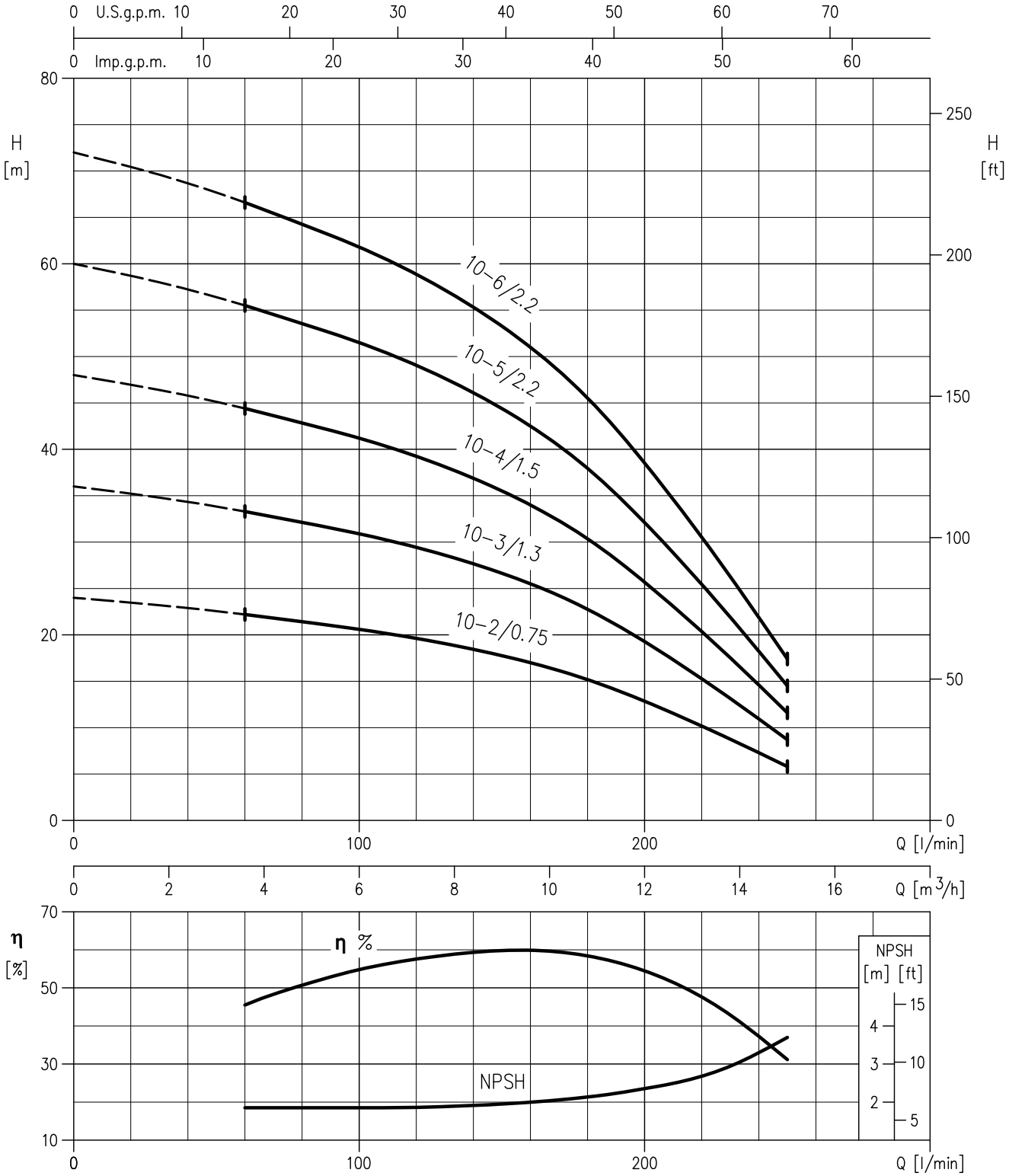
PERFORMANCE CURVES MATRIX 3 series (according to ISO 9906 Annex A)



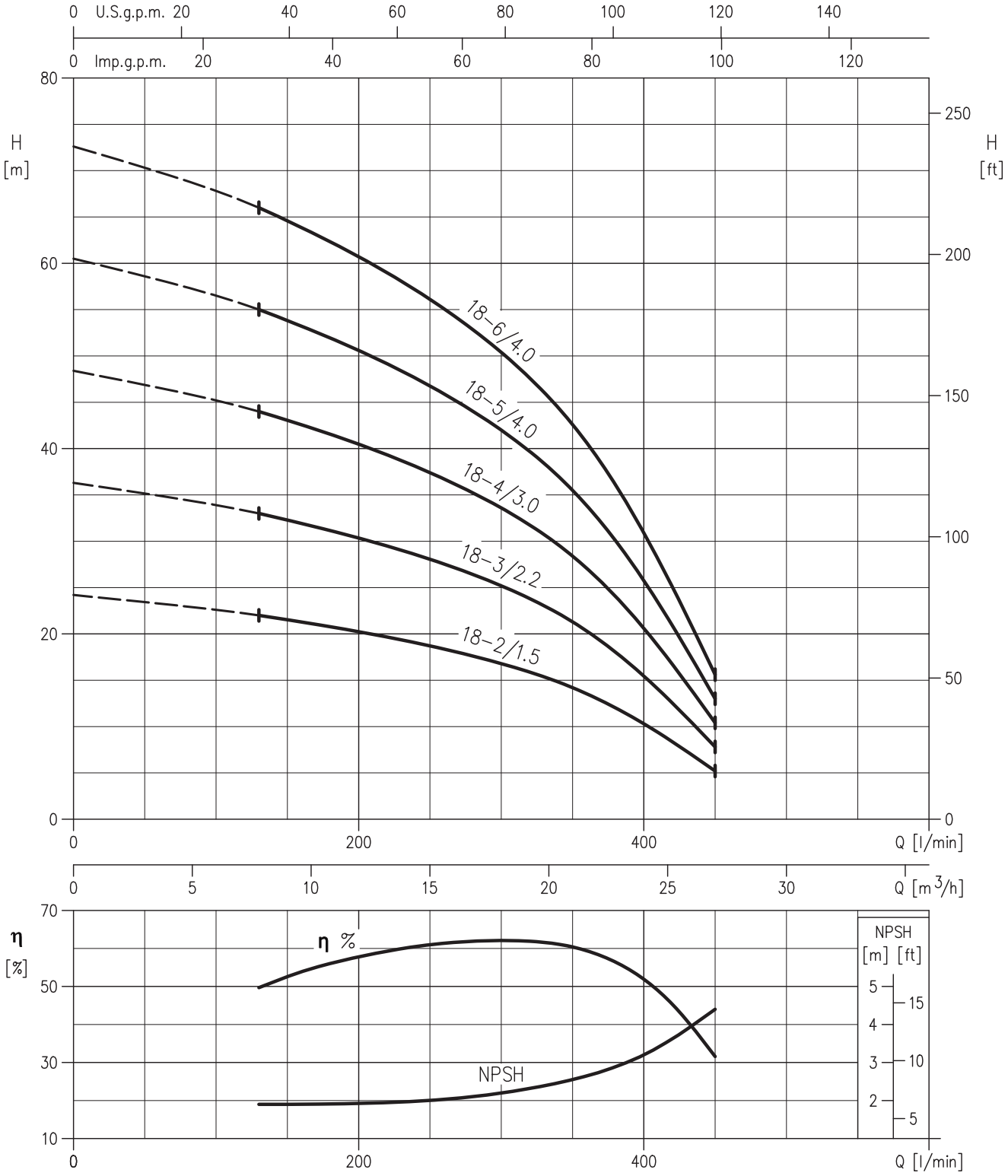
PERFORMANCE CURVES MATRIX 5 series (according to ISO 9906 Annex A)



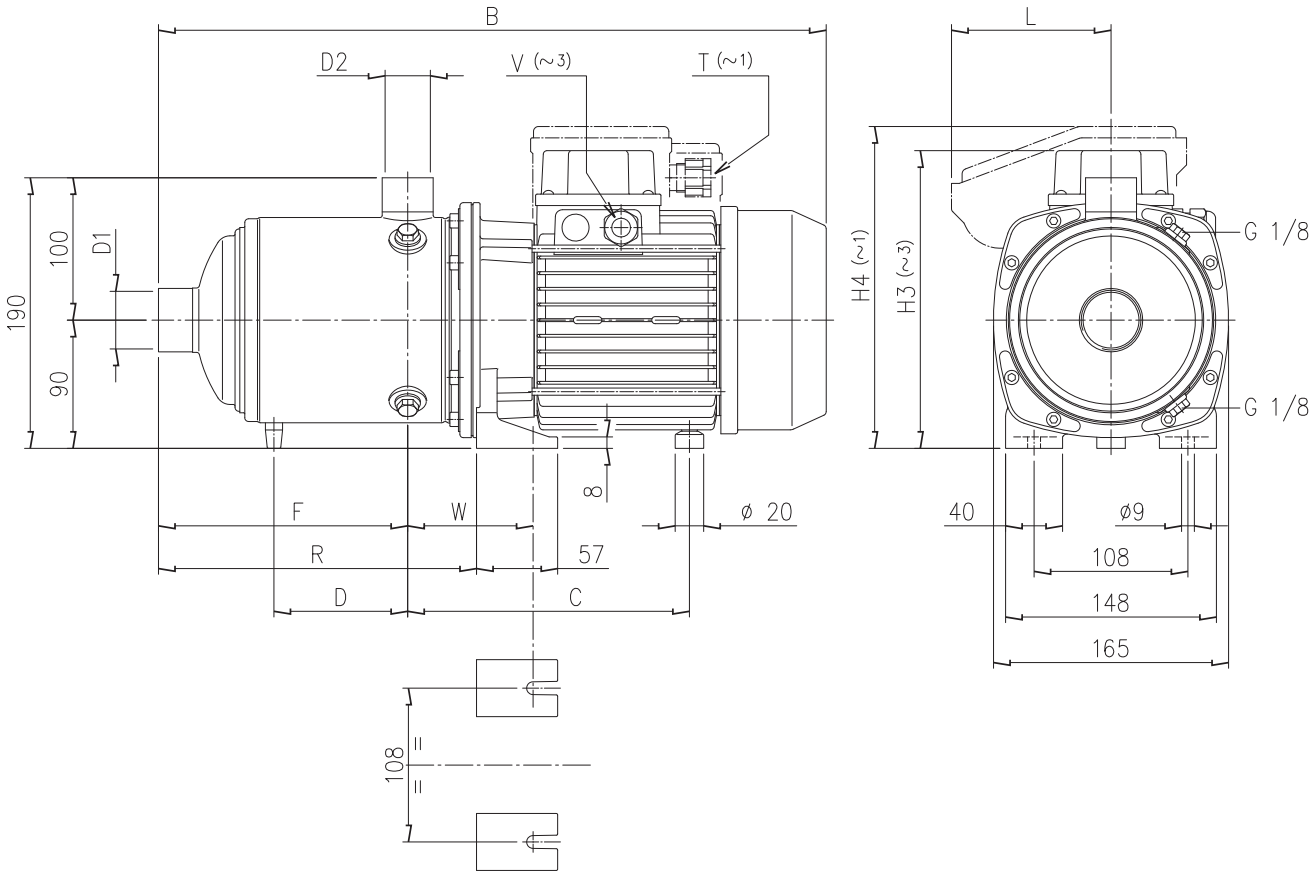
PERFORMANCE CURVESMATRIX 10 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES MATRIX 18 series (according to ISO 9906 Annex A)



MATRIX 3



DIMENSIONAL TABLE

Pump type	Dimensions (mm)													Weight (kg)
	D1	D2	B	C	D	F	H3 (~3)	H4 (~1)	L	R	T (~1)	V (~3)	W	
MATRIX 3-2T/0,45 M	1"	1"	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	8,5
MATRIX 3-2T/0,45	1"	1"	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	8,4
MATRIX 3-3T/0,65M	1"	1"	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	9,9
MATRIX 3-3T/0,65	1"	1"	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	9,8
MATRIX 3-4T/0,65M	1"	1"	384	171	-	127	-	200	84	175,5	PG11	-	88÷97	10,6
MATRIX 3-4T/0,65	1"	1"	384	171	-	127	192	-	-	175,5	-	PG11	88÷97	10,4
MATRIX 3-5T/0,75M	1"	1"	408	171	-	151	-	200	84	199,5	PG11	-	88÷97	12,5
MATRIX 3,5T/0,75	1"	1"	408	171	-	151	192	-	-	199,5	-	PG11	88÷97	12,4
MATRIX 3-6T/0,9M	1"	1"	432	171	-	175	-	219	106	223,5	M20x1,5	-	88÷97	13,7
MATRIX 3-6T/0,9	1"	1"	432	171	-	175	192	-	-	223,5	-	PG11	88÷97	13,7
MATRIX 3-7T/1,3M	1"	1"	493	198	118	199	-	226	112	247,5	M20x1,5	-	88÷97	16,3
MATRIX 3-7T/1,3	1"	1"	493	198	118	199	209	-	-	247,5	-	PG11	88÷97	16,1
MATRIX 3-8T/1,3M	1"	1"	517	198	118	223	-	226	112	271,5	M20x1,5	-	88÷97	16,3
MATRIX 3-8T1,3	1"	1"	517	198	118	223	209	-	-	271,5	-	PG11	88÷97	16,8
MATRIX 3-9T/1,5M	1"	1"	541	198	118	247	-	226	112	295,5	M20x1,5	-	88÷97	18,3
MATRIX 3-9T/1,5	1"	1"	541	198	118	247	209	-	-	295,5	-	PG11	88÷97	17,7

MATRIX 5 - 10 - 18

FIG. 1

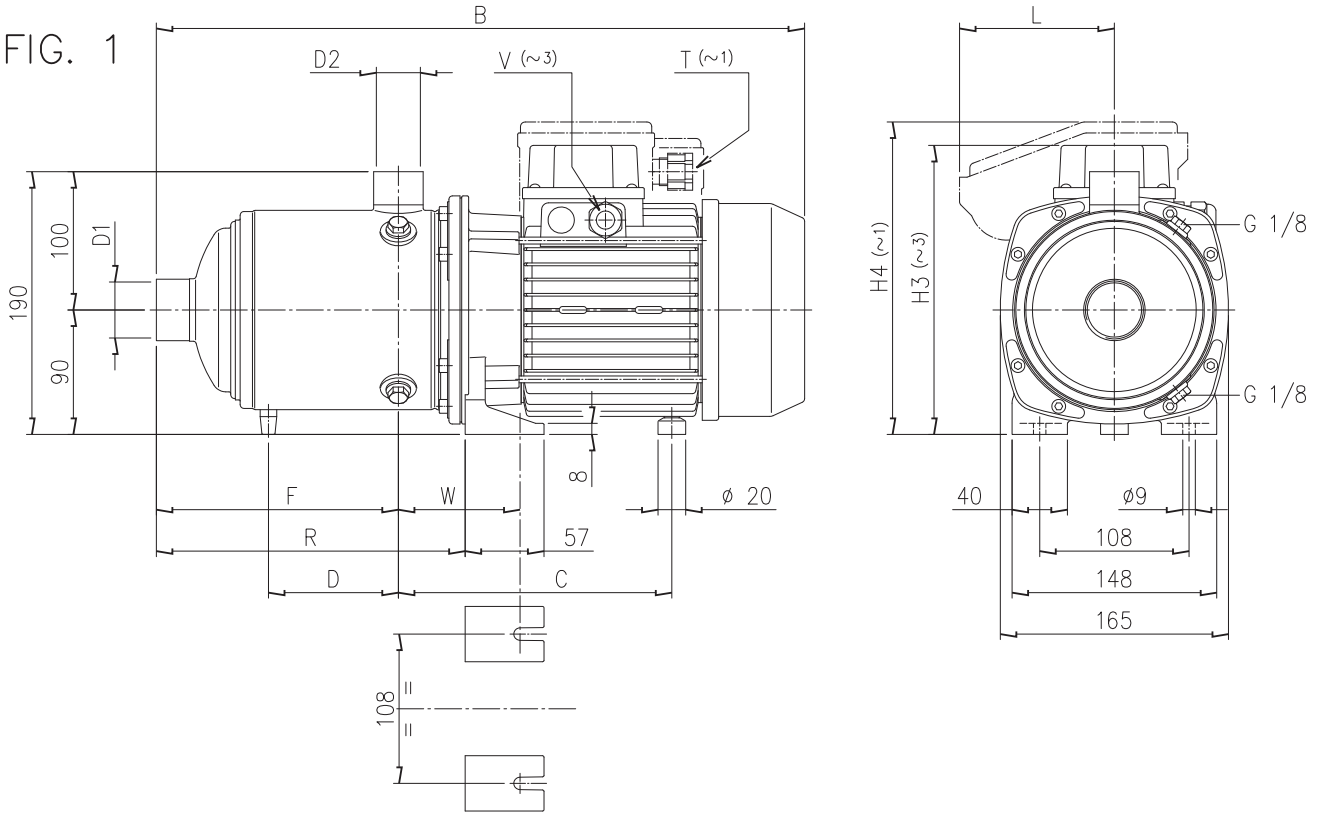
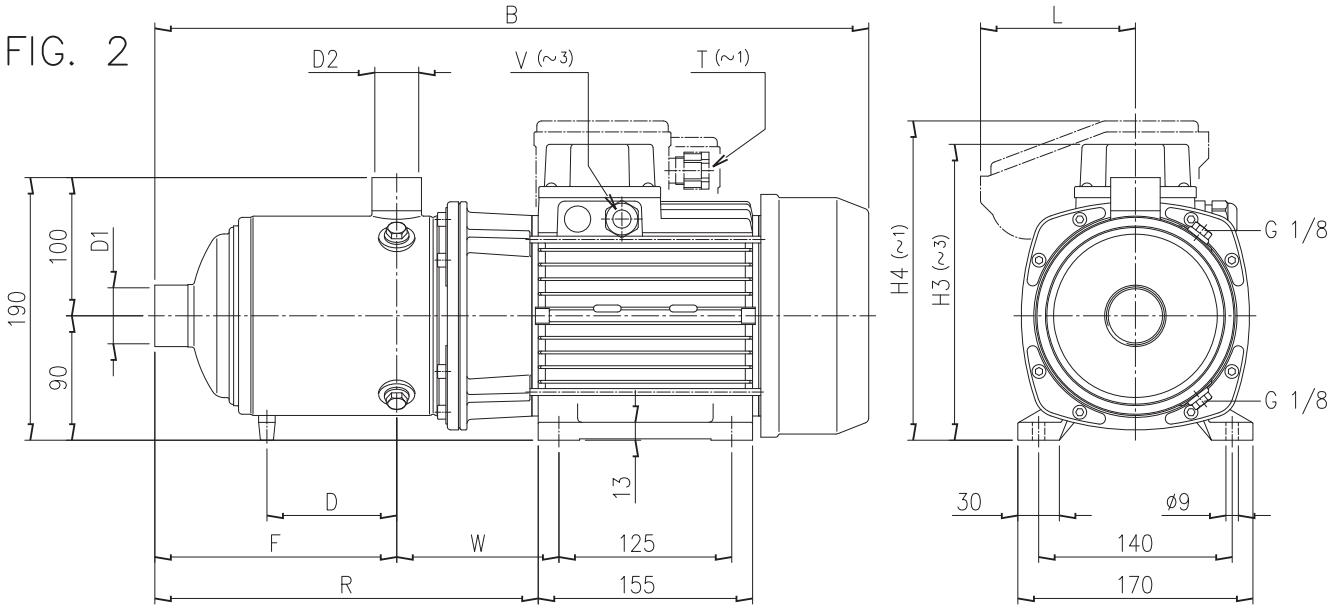


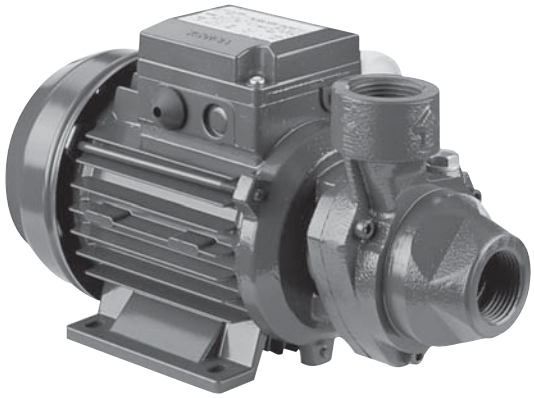
FIG. 2



DIMENSIONAL TABLE

Pump type	Dimensions (mm)														Weight (kg)
	Fig.	D1	D2	B	C	D	F	H3 (~3)	H4 (~1)	L	R	T (~1)	V (~3)	W	
MATRIX 5-2T/0,45 M	1	1¼"	1"	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	8,5
MATRIX 5-2T/0,45	1	1¼"	1"	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	8,4
MATRIX 5-3T/0,65 M	1	1¼"	1"	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	9,9
MATRIX 5-3T/0,65	1	1¼"	1"	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	9,8
MATRIX 5-4/0,9 M	1	1¼"	1"	384	171	-	127	-	219	106	175,5	M20x1,5	-	88÷97	12,2
MATRIX 5-4T/0,9	1	1¼"	1"	384	171	-	127	192	-	-	175,5	-	PG11	88÷97	12,1
MATRIX 5-5T/1,3 M	1	1¼"	1"	445	198	-	151	-	226	112	199,5	M20x1,5	-	88÷97	15,0
MATRIX 5-5T/1,3	1	1¼"	1"	445	198	-	151	209	-	-	199,5	-	PG11	88÷97	14,5
MATRIX 5-6T/1,3 M	1	1¼"	1"	469	198	-	175	-	226	112	223,5	M20x1,5	-	88÷97	15,2
MATRIX 5-6T/1,3	1	1¼"	1"	469	198	-	175	209	-	-	223,5	-	PG11	88÷97	15,6
MATRIX 5-7T/1,5 M	1	1¼"	1"	493	198	118	199	-	226	112	247,5	M20x1,5	-	88÷97	17,2
MATRIX 5-7T/1,5	1	1¼"	1"	493	198	118	199	209	-	-	247,5	-	PG11	88÷97	16,6
MATRIX 5-8T/2,2 M	2	1¼"	1"	565	-	142	223	-	231	112	325,5	M20x1,5	-	117,5	22,3
MATRIX 5-8T/2,2	1	1¼"	1"	530	198	142	223	209	-	-	271,5	-	PG11	88÷97	18,7
MATRIX 5-9T/2,2 M	2	1¼"	1"	589	-	166	247	-	231	112	349,5	M20x1,5	-	117,5	22,8
MATRIX 5-9T/2,2	1	1¼"	1"	554	198	166	247	209	-	-	295,5	-	PG11	88÷97	18,8
MATRIX 10-2T/0,75 M	1	1½"	1¼"	379	175	-	118	-	200	84	170,5	PG11	-	92÷101	11,3
MATRIX 10-2T/0,75	1	1½"	1¼"	379	175	-	118	192	-	-	170,5	-	PG11	92÷101	11,2
MATRIX 10-3T/1,3 M	1	1½"	1¼"	416	202	-	118	-	226	112	170,5	M20x1,5	-	92÷101	14,7
MATRIX 10-3T/1,3	1	1½"	1¼"	416	202	-	118	209	-	-	170,5	-	PG11	92÷101	13,9
MATRIX 10-4T/1,5 M	1	1½"	1¼"	446	202	-	148	-	226	112	200,5	M20x1,5	-	92÷101	15,6
MATRIX 10-4T/1,5	1	1½"	1¼"	446	202	-	148	209	-	-	200,5	-	PG11	92÷101	15,4
MATRIX 10-5T/2,2 M	2	1½"	1¼"	524	-	-	178	-	231	112	284,5	M20x1,5	-	121,5	21,3
MATRIX 10-5T/2,2	1	1½"	1¼"	489	202	-	178	209	-	-	230,5	-	PG11	92÷101	17,9
MATRIX 10-6T/2,2 M	2	1½"	1¼"	554	-	126	208	-	231	112	314,5	M20x1,5	-	121,5	22,4
MATRIX 10-6T/2,2	1	1½"	1¼"	519	202	126	208	209	-	-	260,5	-	PG11	92÷101	18,3
MATRIX 18-2T/1,5 M	1	2"	1½"	442	205	-	141	-	226	112	196,5	M20x1,5	-	95÷104	14,5
MATRIX 18-2T/1,5 M	1	2"	1½"	442	205	-	141	209	-	-	196,5	-	PG11	95÷104	14,3
MATRIX 18-3T/2,2 M	2	2"	1½"	490	-	-	141	-	231	112	205,5	M20x1,5	-	124,5	20,6
MATRIX 18-3T/2,2	1	2"	1½"	455	205	-	141	209	-	-	196,5	-	PG11	95÷104	17,1
MATRIX 18-4T/3	2	2"	1½"	527	-	-	178,5	214	-	-	288	-	PG13,5	124,5	21,7
MATRIX 18-5T/4	2	2"	1½"	609	-	130,5	216	214	-	-	325,5	-	PG13,5	124,5	26,9
MATRIX 18-6T/4	2	2"	1½"	646	-	168	253,5	214	-	-	363	-	PG13,5	124,5	28,1

Peripheral turbine pumps constructed from cast iron suitable for domestic uses, hot and cold water boosting and pressure boilers feeding.



SPECIFICATIONS

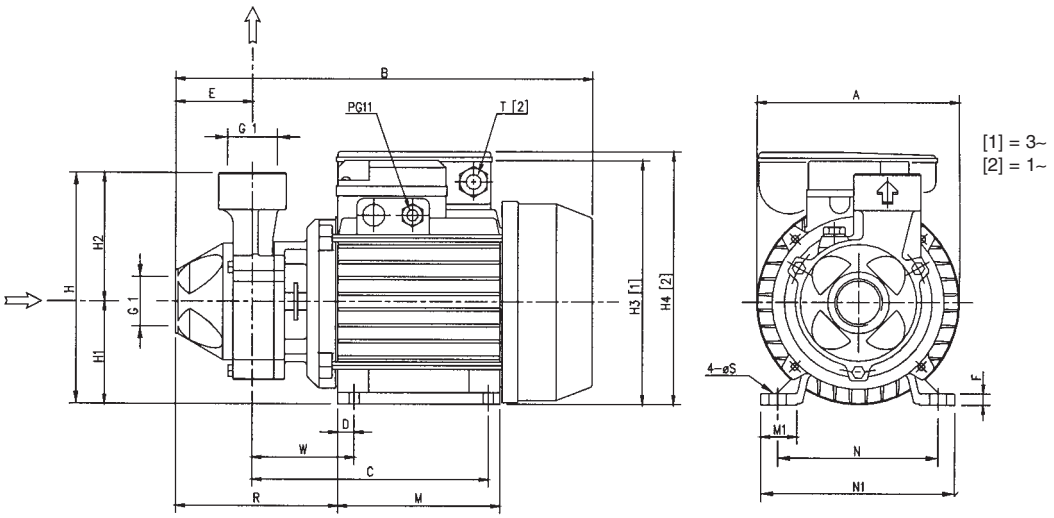
- Maximum working pressure: 6 bar for PRA 0.50
  7,5 bar for PRA 0.80 and 12 bar for the other models
- Maximum liquid temperature: 80°C

MATERIALS

- Pump body and bracket in cast iron
- Shaft in C10 for PRA 0.50 version
  AISI 303 for the other models
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

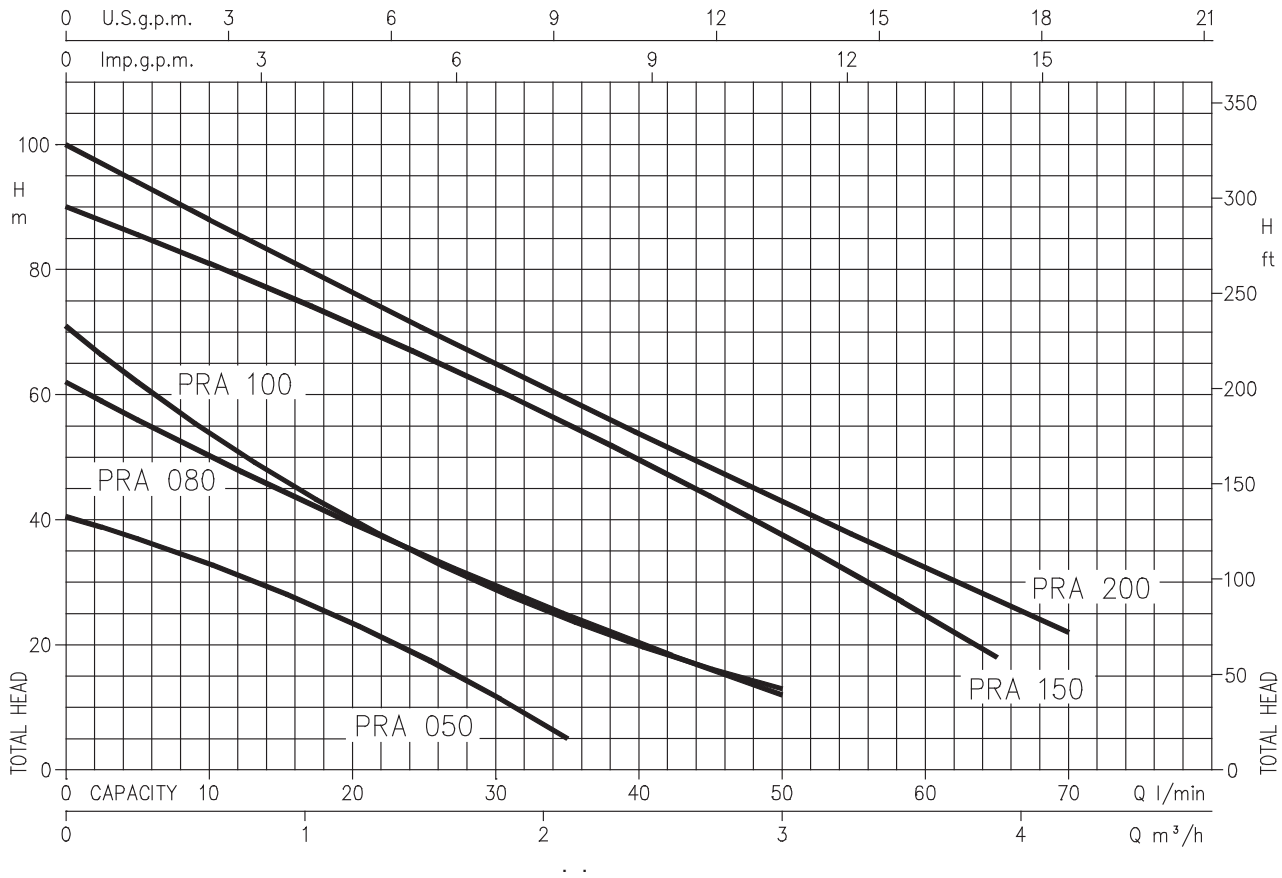
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge-Suction 1”



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																			Weight (kg)
	A	B	C	D	E	F	H	H1	H2	H3	H4	M	M1	N	N1	R	T	W	S	
PRA 0.50M	130	263.5	148.5	10	50	7	143	63	80	-	160	100	23	100	120	118.5	PG11	69	7	5.6
PRA 0.50T	130	263.5	148.5	10	50	7	143	63	80	149.5	-	100	23	100	120	118.5	-	69	7	5.6
PRA 0.80M	130	290.5	159.3	11	53.8	9	161	71	90	-	178	112	25	112	135	122	PG11	69	7	9.2
PRA 0.80T	150	290.5	159.3	11	53.8	9	161	71	90	167.5	-	112	25	112	135	122	-	69	7	9.2
PRA 1.00M	150	290.5	159.3	11	53.8	9	161	71	90	-	178	112	25	112	135	122	PG11	69	7	9.7
PRA 1.00T	150	290.5	159.3	11	53.8	9	161	71	90	167.5	-	112	25	112	135	122	-	69	7	9.7
PRA 1.50M	162	330.5	188	12	57	12	175	80	95	-	212	124	28	125	152	144	PG13.5	88	9	14.5
PRA 1.50T	162	330.5	188	12	57	12	175	80	95	186.5	-	124	28	125	152	144		88	9	14.5
PRA 2.00M	162	330.5	188	12	57	12	175	80	95	-	212	124	28	125	152	144	PG13.5	88	9	15.8
PRA 2.00T	162	330.5	188	12	57	12	175	80	95	186.5	-	124	28	125	152	144	-	88	9	15.8

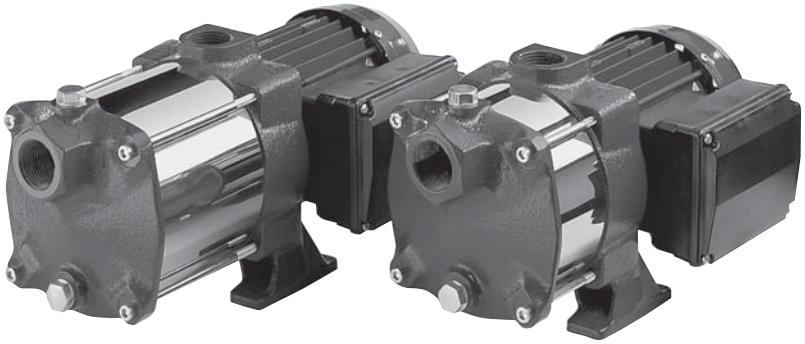
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed current [A]			l/min	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three Phase 230 V	Three Phase 400 V	m³/h	5 / 0.3	10 / 0.6	15 / 0.9	20 / 1.2	35 / 2.1	50 / 3	65 / 3.9	70 / 4.2
									H=Total head							
PRA 0.50M	PRA 0.50T	0.37	10	450	2,6	1,7	1,0		37	33.3	28.7	23.7	5	-	-	-
PRA 0.80M	PRA 0.80T	0.6	16	450	4,9	3,6	2,1		56	50.7	45.1	39.8	25	12	-	-
PRA 1.00M	PRA 1.00T	0.75	20	450	5,6	4,1	2,4		62	54.4	47	40.4	24.3	13	-	-
PRA 1.50M	PRA 1.50T	1.1	35	450	10,0	6,3	3,6		-	81	76.9	71.9	55.8	37.9	18	-
PRA 2.00M	PRA 2.00T	1.5	40	450	10,9	7,0	4,0		-	88	82.9	77	59.8	43.3	27.4	22

Horizontal centrifugal multistage pumps suitable for pressure boosting systems, car washing, small garden irrigation and general clean water pumping.



SPECIFICATIONS

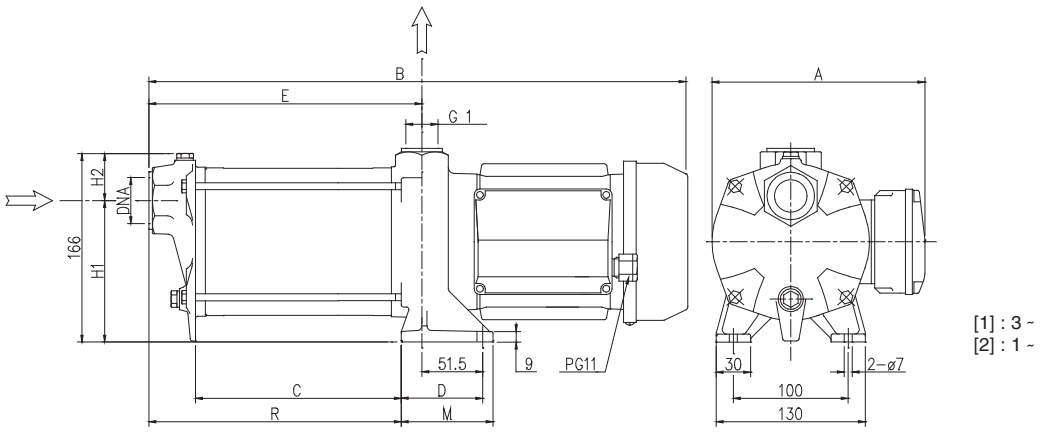
- Maximum working pressure: 10 bar
- Maximum liquid temperature: 40°C

MATERIALS

- Pump body and bracket in cast iron
- External casing in AISI 304
- Impeller and diffuser in tecnopolymer
- Shaft in AISI 416
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

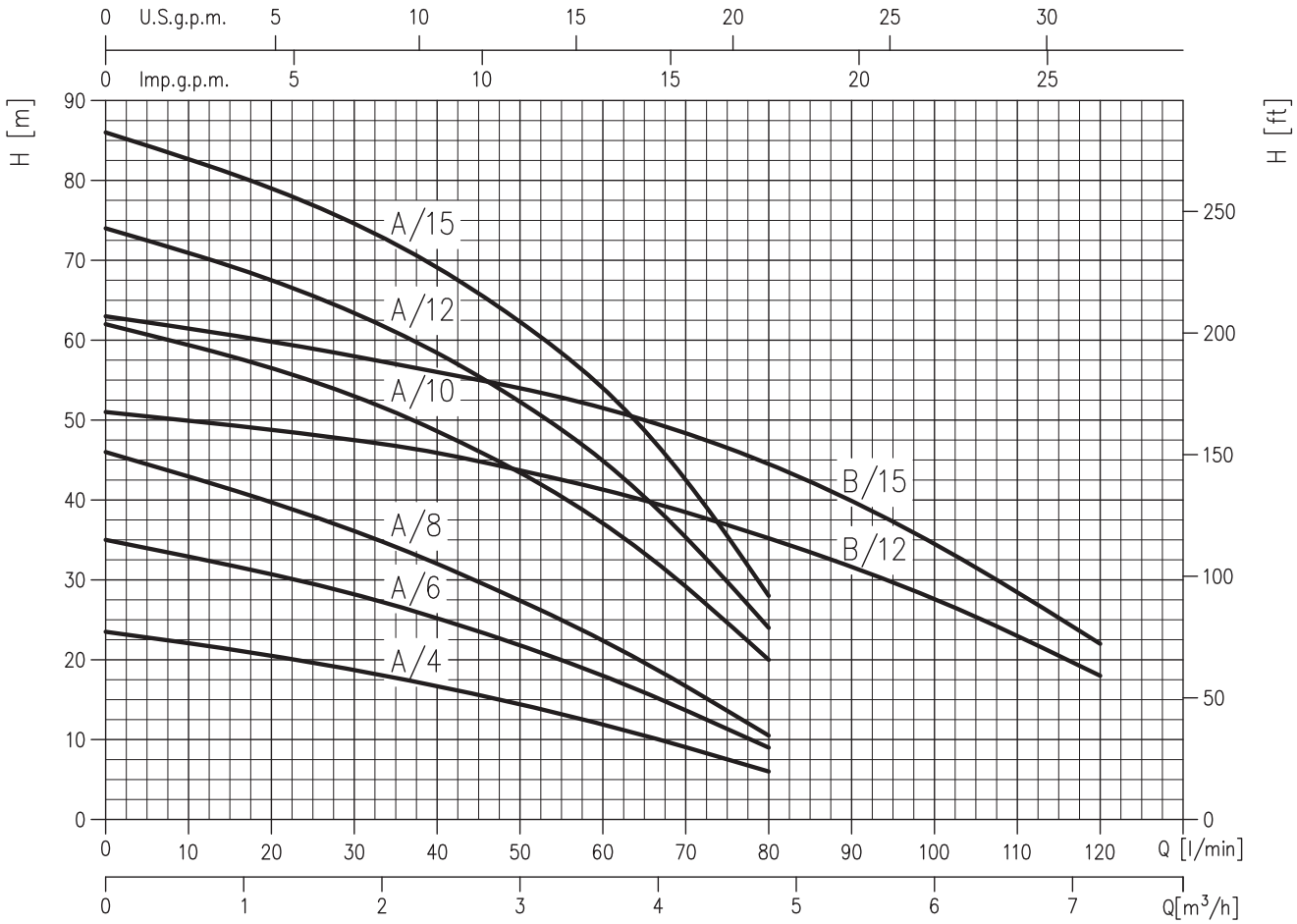
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1" – Suction 1"¼ for COMPACT B/12 and B/15, 1" for other models



DIMENSIONAL TABLE

Pump type		Dimensions (mm)											Weight (kg)
		A		B	C	D	E	H1	H2	M	R	DNA	
Single-phase	Three-phase	1~	3~										
COMPACT AM/4	COMPACT A/4	183,5	159	307,5	82	51,5	120,5	127,5	38,5	62	120,5	G1	8,4
COMPACT AM/6	COMPACT A/6	183,5	159	333,5	108	51,5	146,5	127,5	38,5	62	146,5	G1	9,3
COMPACT AM/8	COMPACT A/8	183,5	159	359,5	134	51,5	172,5	127,5	38,5	62	172,5	G1	10,3
COMPACT AM/10	COMPACT A/10	193,5	169	426	142	69,5	198,5	123,5	42,5	80	180,5	G1	14,5
COMPACT AM/12	COMPACT A/12	193,5	169	452	168	69,5	224,5	123,5	42,5	80	206,5	G1	15,5
COMPACT AM/15	COMPACT A/15	193,5	169	490	194	69,5	250,5	123,5	42,5	80	232,5	G1	16,7
COMPACT BM/12	COMPACT B/12	193,5	169	400	116	69,5	172,5	123,5	42,5	80	154,5	G1 ¼	14,9
COMPACT BM/15	COMPACT B/15	193,5	169	438	142	69,5	198,5	123,5	42,5	80	180,5	G1 ¼	15,9

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

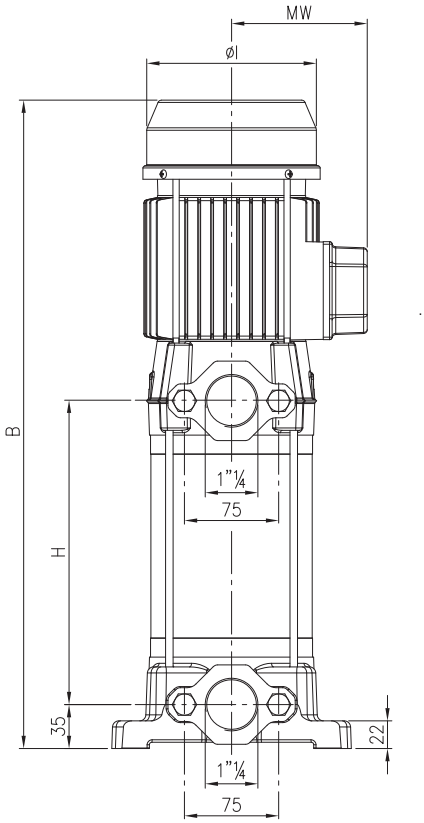
Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	20	30	40	50	60	80	100	120
									1,2	1,8	2,4	3	3,6	4,8	6	7,2
									H=Total head							
COMPACT AM/4	COMPACT A/4	0,3	10	450	2,5	1,9	1,1		21	18,7	16,7	14,4	11,9	6	-	-
COMPACT AM/6	COMPACT A/6	0,44	12,5	450	3,0	2,3	1,3		31	28,2	25,2	21,8	18	9	-	-
COMPACT AM/8	COMPACT A/8	0,6	14	450	4,0	2,6	1,5		40	36,1	32	27,4	22,4	10,5	-	-
COMPACT AM/10	COMPACT A/10	0,75	20	450	6,0	4,2	2,4		57	53	48,6	43,4	37,1	20	-	-
COMPACT AM/12	COMPACT A/12	0,9	31,5	450	6,2	4,7	2,7		68	63,4	58,4	52,3	44,9	24	-	-
COMPACT AM/15	COMPACT A/15	1,1	31,5	450	7,3	5,7	3,3		79	74,6	69,1	62,3	54	28	-	-
COMPACT BM/12	COMPACT B/12	0,9	31,5	450	5,8	4,7	2,7		-	47,5	45,9	43,7	41,3	35,2	27,6	18
COMPACT BM/15	COMPACT B/15	1,1	31,5	450	7,3	5,9	3,4		-	58	56	54	51,5	44,5	34,5	22

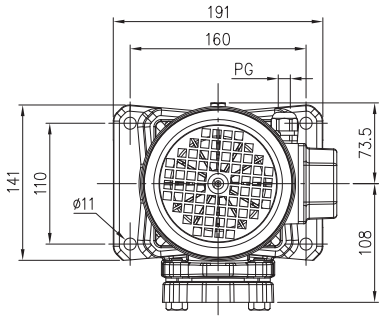
Vertical centrifugal multistage pumps suitable for pressure boosting systems, car washing, washing plants, water treatment plants (filtrations), water supply systems, irrigation and general clean water pumping. Reliable and noiseless pumps.

SPECIFICATIONS
- Maximum working pressure: 11 bar
- Maximum liquid temperature: 40°C

MATERIALS
- Pump body and bracket in cast iron
- External casing in AISI 304
- Impeller and diffuser in tecnopolymer
- Shaft in AISI 416
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge – Suction 1"¼



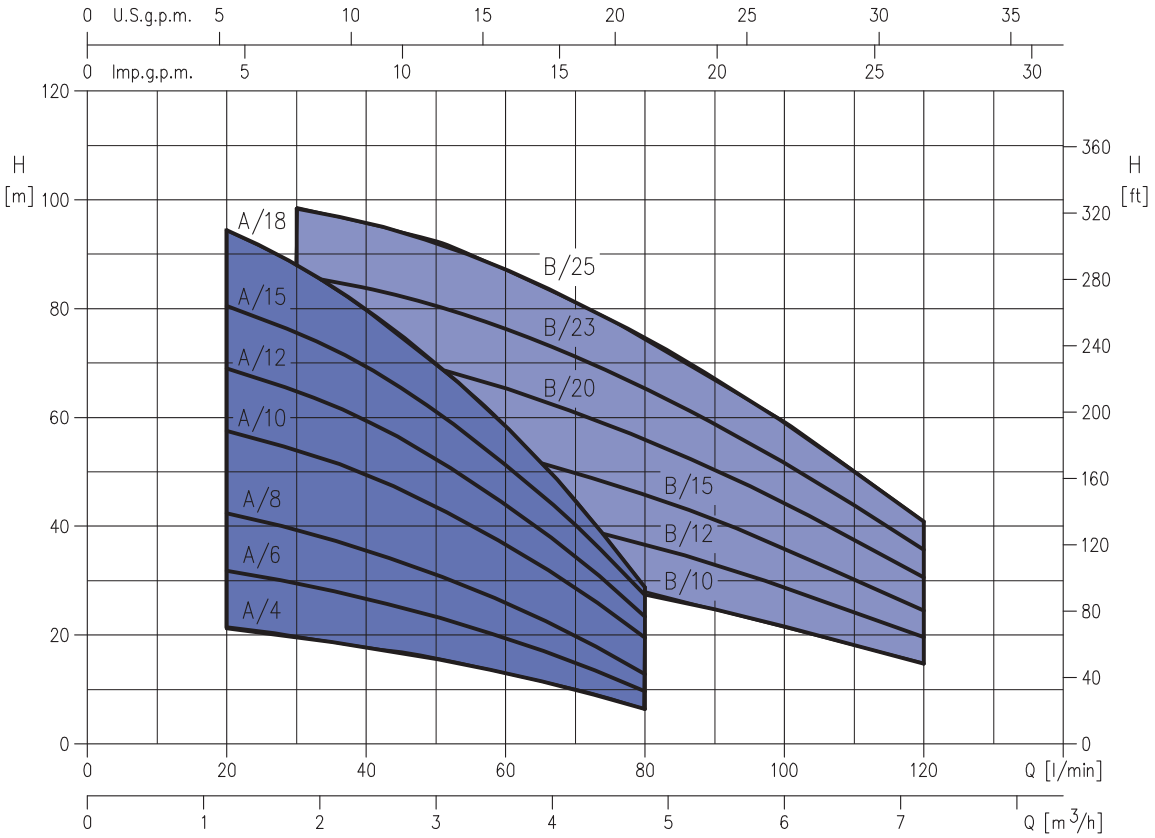


DIMENSIONAL TABLE

Pump type	Motor Size	Dimensions (mm) B	H	Ø	MW [1]	MW [2]	PG [1]	PG [2]	Weight (kg)	
CVM AM/4	63	336	112	116	101	91,5	11	11	11	11
CVM A/6	63	362	138	116	101	91,5	11	11	11,7	11,6
CVM A/8	63	388	164	116	101	91,5	11	11	12,7	12,6
CVM A/10	71	452	190	137	111	101	11	11	16,5	16,6
CVM A/12	71	478	216	137	111	101	11	11	17,5	17,6
CVM A/15	71	517	242	137	111	101	11	11	18,5	18,6
CVM A/18	80	565	268	153	136	120,5	13,5	11	21,2	21,2
CVM B/10	71	400	138	137	111	101	11	11	15,9	15,9
CVM B/12	71	426	164	137	111	101	11	11	16,8	16,7
CVM B/15	71	465	190	137	111	101	11	11	18	17,9
CVM B/20	80	513	216	153	136	120,5	13,5	11	21,3	21,3
CVM B/23	80	552	242	153	136	120,5	13,5	11	22,6	22,4
CVM B/25	80	578	268	153	-	120,5	-	11	-	23,7

[1] *Single-phase*
[2] *Three-phase*

PERFORMANCE CHART *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		Power		Capacitor		Absorbed Current (A)			Q=Capacity								
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz	kW	HP	µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	l/min 0	20	30	40	50	60	80	100	120
									m³/h 0	1,2	1,8	2,4	3	3,6	4,8	6	7,2
									H=Total head								
CVM AM/4	CVM A/4	0,3	0,4	10	450	2,6	1,9	1,1	23,8	21,2	19,7	17,8	15,6	13,0	6,4	-	-
CVM AM/6	CVM A/6	0,44	0,6	12,5	450	3,2	2,3	1,3	35,7	31,8	29,5	26,7	23,3	19,4	9,6	-	-
CVM AM/8	CVM A/8	0,6	0,8	14	450	4,0	2,8	1,6	47,5	42,5	39,4	35,6	31,1	25,9	12,8	-	-
CVM AM/10	CVM A/10	0,75	1	20	450	6,0	4,0	2,3	62,5	57,5	54,0	49,5	43,5	36,6	19,5	-	-
CVM AM/12	CVM A/12	0,9	1,2	31,5	450	6,5	4,8	2,8	75,0	69,0	65,0	59,5	52,5	44,0	23,4	-	-
CVM AM/15	CVM A/15	1,1	1,5	31,5	450	7,2	5,7	3,3	87,5	80,5	75,5	69,5	61,0	51,0	27,3	-	-
CVM AM/18	CVM A/18	1,3	1,8	31,5	450	7,8	5,4	3,1	103,0	94,5	88,0	80,0	70,0	58,5	28,8	-	-
CVM BM/10	CVM B/10	0,75	1	20	450	5,6	4,1	2,4	38,1	-	36,2	35,1	33,7	32,0	27,5	21,6	14,7
CVM BM/12	CVM B/12	0,9	1,2	31,5	450	6,2	4,7	2,7	51,0	-	48,0	46,8	45,0	42,6	36,6	28,8	19,6
CVM BM/15	CVM B/15	1,1	1,5	31,5	450	7,4	5,5	3,2	63,5	-	60,5	58,5	56,2	53,3	45,8	36,0	24,5
CVM BM/20	CVM B/20	1,5	2	35	450	8,3	5,7	3,3	78,5	-	74,0	72,0	69,0	65,5	56,0	44,5	30,6
CVM BM/23	CVM B/23	1,7	2,3	40	450	9,6	7,4	4,3	91,5	-	86,0	84,0	80,5	76,5	65,5	51,5	35,7
-	CVM B/25	1,85	2,5	-	-	-	7,4	4,3	105,0	-	98,5	96,0	92,0	87,0	74,5	59,0	41,0

Particularly reliable vertical multistage motor-driven centrifugal pumps featuring particularly silent running.
Fitted with motor cooled by the flow of water being handled and double mechanical seal with a chamber between them containing the lubricating liquid, assuring long life.
Suitable for pressure boosting in domestic, community, hospital etc. water supply systems, handling liquids in places subject to flooding, supplying fountains and dancing water features and for sprinkler irrigation of small vegetable patches and gandens.
Comes with 5 m length of H07 RN-F power cord.

SPECIFICATIONS

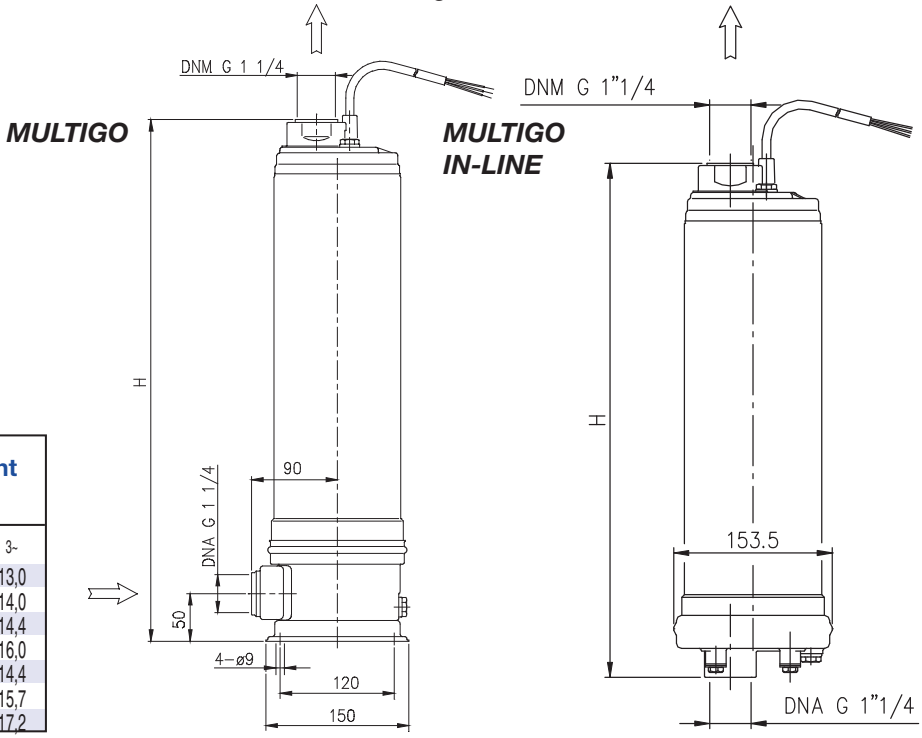
- Maximum working pressure: 10 bar
- Maximum liquid temperature: 40°C

MATERIALS

- Pump body, casing cover and motor casing in AISI 304
- Impeller and diffuser in tecnopolymer
- Shaft in AISI 416
- Mechanical seal in carbon/ceramic/NBR

TECHNICAL DATA

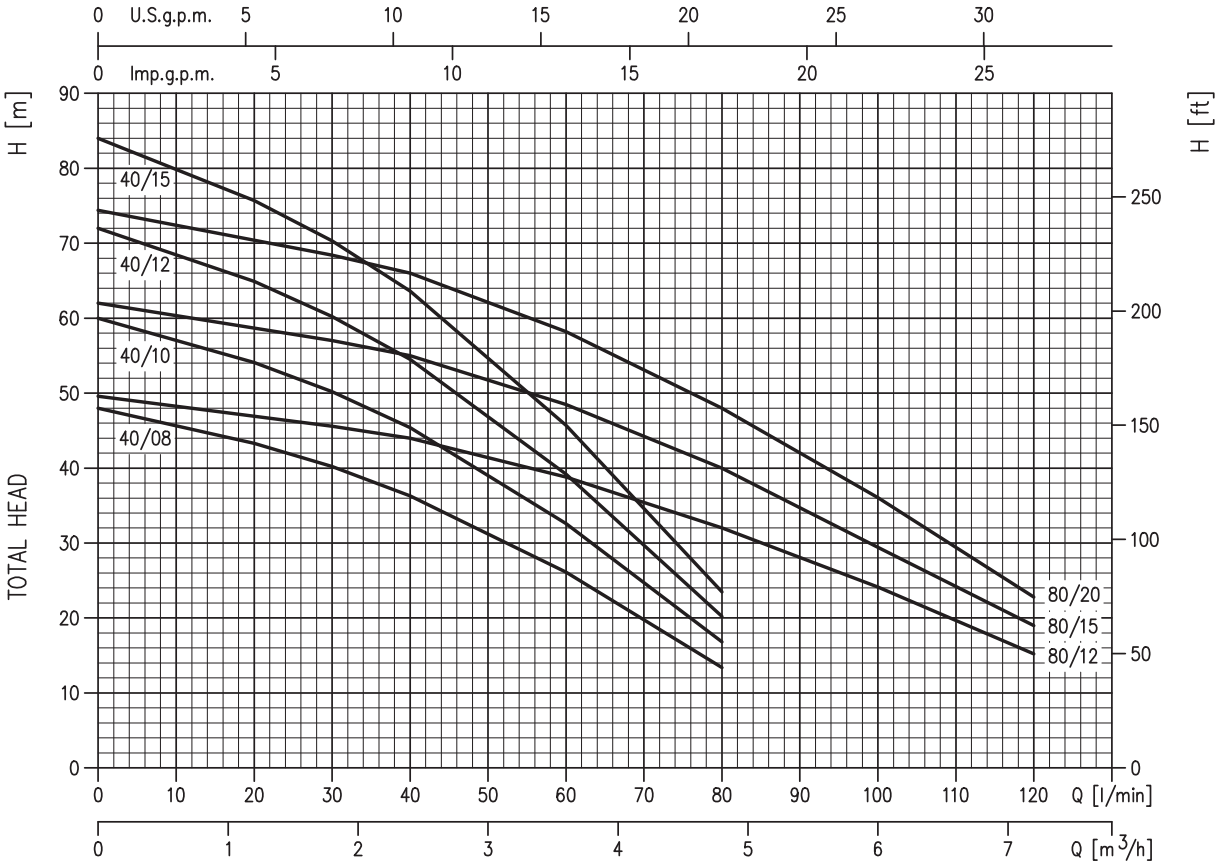
- Asincronous 2 poles motor cooled by the pumped liquid
- Insulation class F
- Protection degree IP68
- 1~230V ± 10% 50Hz, 3~400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction - Discharge 1"1/4



DIMENSIONAL TABLE

Pump type		H (mm)		Weight (kg)	
		STANDARD VERSION	IN-LINE VERSION		
Single-phase	Three-phase			1~	3~
MULTIGO M 40/08	MULTIGO 40/08	547	501	13,4	13,0
MULTIGO M 40/10	MULTIGO 40/10	573	527	14,4	14,0
MULTIGO M 40/12	MULTIGO 40/12	624	578	14,8	14,4
MULTIGO M 40/15	MULTIGO 40/15	650	604	16,4	16,0
MULTIGO M 80/12	MULTIGO 80/12	573	527	14,8	14,4
MULTIGO M 80/15	MULTIGO 80/15	598	552	16,1	15,7
-	MULTIGO 80/20	624	-	-	17,2

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			Q=Capacity						
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	Vc	1~ 230V	3~ 400V	l/min	20	30	40	60	80	100	120
							m³/h	1,2	1,8	2,4	3,6	4,8	6	7,2
								H=Total head						
MULTIGO M 40/08	MULTIGO 40/08	0,6	16	450	4,3	1,9		43,3	40,2	36,3	26,1	13,4	-	-
MULTIGO M 40/10	MULTIGO 40/10	0,75	20	450	5,7	2,2		54,1	50,2	45,4	32,6	16,8	-	-
MULTIGO M 40/12	MULTIGO 40/12	0,9	20	450	6,8	2,4		64,9	60,2	54,5	39,2	20,2	-	-
MULTIGO M 40/15	MULTIGO 40/15	1,1	31,5	450	7,3	3,0		75,7	70,3	63,6	45,7	23,5	-	-
MULTIGO M 80/12	MULTIGO 80/12	0,9	20	450	6,4	2,3		-	45,6	44	38,8	32	23,2	15,2
MULTIGO M 80/15	MULTIGO 80/15	1,1	31,5	450	7,5	3,1		-	57	55	48,5	40	28	19
-	MULTIGO 80/20	1,5	-	-	-	3,5		-	68,4	66	58,2	48	34,8	22,8

VERTICAL MULTISTAGE PUMPS in cast iron, AISI 304, AISI 316

*New vertical multistage centrifugal pumps in various versions: cast iron **(EVMG)**, AISI 304 stainless steel **(EVM)**, AISI 316 stainless steel **(EVML)** and WRAS approved **(EVMW)**. Reliable, quiet and easy to maintain. They come with different numbers of stages and in different sizes to meet individual capacity and head requirements. Suitable for industrial and agricultural applications, fire fighting systems, pressure boosting (WRAS approved), water treatment plants, irrigation, hot and cold water movement for heating systems, cooling and air conditioners, especially suitable for boiler feed due to their sturdy construction.*
All the new EVM pumps can be coupled with standard IEC motors.
The new vertical multistage pumps according to 94/9/EC directive on ATEX equipment (belonging to Group II, Category 2).

SPECIFICATIONS

Maximum working pressure:
- 16 bar
- 25 bar
- 30 bar (only for EVM32 - EVM45)
- Liquid temperature: from -15°C up to +120°C
  from -15°C up to +85°C (for EVMW)

MATERIALS

Pump body, external casing, casing cover, impellers, diffusers, bearing sleeve, coupling guard and bolts in contact with liquid AISI 304 (EVM), AISI 316 (EVML), EVMG version: bottom casing in cast iron
- Tie-rods and bolts not in contact with liquid in zinc coated steel
- Shaft in AISI 316
- Bearing in contact with liquid in tungsten-carbide
- Bracket and base in cast iron
- Mechnical seal in SiC/Carbon/FPM (EVM3-EVM5-EVM10-EVM18)
- Cartridge mechanical seal standard (EVM32-EVM45-EVM64)

(F= round flanges; N= oval flanges)

TECHNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection IP55
- 1~230V ± 10% 50Hz (up to 2,2kW)
  3~230/400V ±10% 50Hz delta connection (up to 4kW included)
  3~400/690V ±10% above 5,5 kW

PERFORMANCE TABLE EVM 3-18

Pump type EVM 3-5-10-18	Motor kW	Motor HP	Size	Maximum working pressure (MPa)	Q = Capacity l/min 0	20	40	60	75	100	130	150	200	250	300	350	400
					m³/h 0	1.2	2.4	3.6	4.5	6.0	7.8	9	12	15	18	21	24
					H = Total head												
EVM 3 2N5/0.37	0.37	0.5	71	1,6	18,6	16,7	14,0	10,3	6,6	-	-	-	-	-	-	-	-
EVM 3 3N5/0.37	0.37	0.5	71	1,6	27,9	25,1	20,9	15,5	9,9	-	-	-	-	-	-	-	-
EVM 3 4N5/0.55	0.55	0.75	71	1,6	37,2	33,4	27,9	20,6	13,2	-	-	-	-	-	-	-	-
EVM 3 5N5/0.55	0.55	0.75	71	1,6	46,5	42,0	34,9	25,8	16,5	-	-	-	-	-	-	-	-
EVM 3 6N5/0.75	0.75	1	80	1,6	56,0	50,0	42,0	30,9	19,8	-	-	-	-	-	-	-	-
EVM 3 7N5/0.75	0.75	1	80	1,6	65,0	58,5	49,0	36,1	23,1	-	-	-	-	-	-	-	-
EVM 3 9N5/1.1	1.1	1.5	80	1,6	84,0	75,0	63,0	46,5	29,7	-	-	-	-	-	-	-	-
EVM 3 11N5/1.1	1.1	1.5	80	1,6	102,0	92,0	77,0	56,5	36,3	-	-	-	-	-	-	-	-
EVM 3 13N5/1.5	1.5	2	90S	1,6	121,0	109,0	90,5	67,0	43,0	-	-	-	-	-	-	-	-
EVM 3 15N5/1.5	1.5	2	90S	1,6	140,0	125,0	105,0	77,5	49,5	-	-	-	-	-	-	-	-
EVM 3 18F5/2.2	2.2	3	90L	2,5	167,0	151,0	126,0	92,5	59,5	-	-	-	-	-	-	-	-
EVM 3 22F5/2.2	2.2	3	90L	2,5	205,0	184,0	154,0	113,0	72,5	-	-	-	-	-	-	-	-
EVM 3 26F5/3.0	3	4	100	2,5	242,0	217,0	182,0	134,0	86,0	-	-	-	-	-	-	-	-
EVM 5 2N5/0.37	0.37	0.5	71	1,6	20,2	-	18,4	16,9	15,4	12,2	6,9	-	-	-	-	-	-
EVM 5 3N5/0.55	0.55	0.75	71	1,6	30,2	-	27,6	25,3	23,1	18,4	10,3	-	-	-	-	-	-
EVM 5 4N5/0.75	0.75	1	80	1,6	40,5	-	36,8	33,8	30,8	24,5	13,8	-	-	-	-	-	-
EVM 5 5N5/1.1	1.1	1.5	80	1,6	50,5	-	46,0	42,0	38,6	30,6	17,2	-	-	-	-	-	-
EVM 5 6N5/1.1	1.1	1.5	80	1,6	60,5	-	55,0	50,5	46,5	36,7	20,6	-	-	-	-	-	-
EVM 5 7N5/1.5	1.5	2	90S	1,6	70,5	-	64,5	59,0	54,0	43,0	24,1	-	-	-	-	-	-
EVM 5 8N5/1.5	1.5	2	90S	1,6	80,5	-	73,5	67,5	61,5	49,0	27,5	-	-	-	-	-	-
EVM 5 10N5/2.2	2.2	3	90L	1,6	102,0	-	93,5	86,0	79,0	63,0	36,6	-	-	-	-	-	-
EVM 5 11N5/2.2	2.2	3	90L	1,6	113,0	-	103,0	94,5	86,5	69,5	40,5	-	-	-	-	-	-
EVM 5 12N5/2.2	2.2	3	90L	1,6	123,0	-	112,0	103,0	94,5	75,5	44,0	-	-	-	-	-	-
EVM 5 14N5/3.0	3	4	100	1,6	143,0	-	131,0	120,0	110,0	88,0	51,0	-	-	-	-	-	-
EVM 5 16N5/3.0	3	4	100	1,6	164,0	-	150,0	138,0	126,0	101,0	58,5	-	-	-	-	-	-
EVM 5 18F5/4.0	4	5.5	112	2,5	184,0	-	168,0	155,0	142,0	113,0	66,0	-	-	-	-	-	-
EVM 5 19F5/4.0	4	5.5	112	2,5	194,0	-	178,0	163,0	150,0	120,0	69,5	-	-	-	-	-	-
EVM 5 22F5/4.0	4	5,5	112	2,5	225,0	-	206,0	189,0	173,0	139,0	80,5	-	-	-	-	-	-
EVM 5 24F5/5.5	5.5	7,5	132S	2,5	246,0	-	224,0	206,0	189,0	151,0	88,0	-	-	-	-	-	-
EVM 10 2N5/0.75	0.75	1	80	1,6	22,0	-	-	-	21,0	20,4	18,9	17,6	13,2	7,8	-	-	-
EVM 10 3N5/1.1	1.1	1,5	80	1,6	33,0	-	-	-	31,6	30,5	28,4	26,4	19,8	11,7	-	-	-
EVM 10 4N5/1.5	1.5	2	90S	1,6	44,0	-	-	-	42,0	40,5	37,8	35,2	26,4	15,6	-	-	-
EVM 10 5N5/2.2	2.2	3	90L	1,6	55,0	-	-	-	52,5	51,0	47,5	44,0	33,0	19,5	-	-	-
EVM 10 6N5/2.2	2.2	3	90L	1,6	66,0	-	-	-	63,0	61,0	57,0	53,0	39,5	23,4	-	-	-
EVM 10 8N5/3.0	3	4	100	1,6	88,0	-	-	-	84,0	81,5	75,5	70,5	52,5	31,2	-	-	-
EVM 10 10N5/4.0	4	5,5	112	1,6	110,0	-	-	-	105,0	102,0	94,5	88,0	66,0	39,0	-	-	-
EVM 10 11N5/4.0	4	5,5	112	1,6	121,0	-	-	-	116,0	112,0	104,0	97,0	72,5	43,0	-	-	-
EVM 10 12N5/5.5	5.5	7,5	132S	1,6	134,0	-	-	-	130,0	126,0	118,0	111,0	86,5	55,0	-	-	-
EVM 10 14N5/5.5	5.5	7,5	132S	1,6	157,0	-	-	-	151,0	147,0	138,0	130,0	101,0	64,5	-	-	-
EVM 10 15F5/5.5	5.5	7,5	132S	2,5	168,0	-	-	-	162,0	158,0	148,0	139,0	108,0	69,0	-	-	-
EVM 10 16F5/7.5	7.5	10	132S	2,5	179,0	-	-	-	173,0	168,0	158,0	148,0	115,0	73,5	-	-	-
EVM 10 18F5/7.5	7.5	10	132S	2,5	202,0	-	-	-	194,0	189,0	177,0	167,0	129,0	83,0	-	-	-
EVM 10 20F5/7.5	7.5	10	132S	2,5	224,0	-	-	-	216,0	210,0	197,0	185,0	144,0	92,0	-	-	-
EVM 10 22F5/11	11	15	160M	2,5	246,0	-	-	-	238,0	231,0	217,0	204,0	158,0	101,0	-	-	-
EVM 18 2F5/2.2	2.2	3	90L	1,6	32,0	-	-	-	-	-	31,0	30,3	28,5	25,7	21,9	17,2	11,6
EVM 18 3F5/3.0	3	4	100	1,6	48,0	-	-	-	-	-	46,0	45,5	43,0	38,6	32,8	25,7	17,4
EVM 18 4F5/4.0	4	5,5	112	1,6	64,0	-	-	-	-	-	61,5	60,5	57,0	51,5	44,0	34,3	23,2
EVM 18 5F5/5.5	5.5	7,5	132S	1,6	80,0	-	-	-	-	-	77,0	75,5	71,5	64,5	54,5	43,0	29,0
EVM 18 6F5/5.5	5.5	7,5	132S	1,6	96,0	-	-	-	-	-	92,0	91,0	85,5	77,0	65,5	51,5	34,8
EVM 18 7F5/7.5	7.5	10	132S	2,5	112,0	-	-	-	-	-	108,0	106,0	100,0	90,0	76,5	60,0	40,5
EVM 18 8F5/7.5	7.5	10	132S	2,5	128,0	-	-	-	-	-	123,0	121,0	114,0	103,0	87,5	68,5	46,5
EVM 18 10F5/11	11	15	160M	2,5	162,0	-	-	-	-	-	157,0	155,0	147,0	134,0	116,0	93,5	69,0
EVM 18 12F5/11	11	15	160M	2,5	194,0	-	-	-	-	-	189,0	186,0	177,0	160,0	139,0	112,0	83,0
EVM 18 14F5/15	15	20	160M	2,5	227,0	-	-	-	-	-	220,0	217,0	206,0	187,0	162,0	131,0	96,5
EVM 18 15F5/15	15	20	160M	2,5	243,0	-	-	-	-	-	236,0	233,0	221,0	201,0	174,0	141,0	104,0
EVM 18 16F5/15	15	20	160M	2,5	259,0	-	-	-	-	-	252,0	249,0	236,0	214,0	186,0	150,0	110,0

1,6 MPa = 16 bar
2,5 MPa = 25 bar

PERFORMANCE TABLE EVM 32-64

Pump type EVM 32-45-64	Motor kW	Motor HP	Size	Maximum working pressure (MPa)	Q = Capacity l/min 0	200	350	500	600	700	900	1000	1200	1400
					m³/h 0	12	21	30	36	42	54	60	72	84
					H = Total head									
EVM 32 1-0F5/2.2	2,2	3	90L	1,6	22,6	20,2	17,5	13,9	10,3	5,7	-	-	-	-
EVM 32 2-2F5/3.0	3	4	100	1,6	39,0	34,6	29,7	21,2	14,2	-	-	-	-	-
EVM 32 2-0F5/4.0	4	5,5	112	1,6	45,0	40,5	36,0	29,5	23,2	14,9	-	-	-	-
EVM 32 3-3F5/5.5	5,5	7,5	132S	1,6	55,0	52,0	45,0	32,8	22,7	-	-	-	-	-
EVM 32 3-0F5/5.5	5,5	7,5	132S	1,6	68,0	61,0	54,5	45,0	36,1	24,1	-	-	-	-
EVM 32 4-3F5/7.5	7,5	10	132S	1,6	81,0	72,5	63,5	48,5	35,6	-	-	-	-	-
EVM 32 4-0F5/7.5	7,5	10	132S	1,6	90,5	81,5	73,0	61,0	49,0	33,3	-	-	-	-
EVM 32 5-3F5/11	11	15	160M	1,6	104,0	93,0	82,0	64,0	48,5	30,5	-	-	-	-
EVM 32 5-0F5/11	11	15	160M	1,6	113,0	102,0	91,5	76,5	62,0	42,5	-	-	-	-
EVM 32 6-3F5/11	11	15	160M	1,6	126,0	114,0	100,0	79,5	61,5	39,7	-	-	-	-
EVM 32 6-0F5/11	11	15	160M	1,6	136,0	123,0	110,0	92,0	75,0	51,5	-	-	-	-
EVM 32 7-3F5/15	15	20	160M	1,6	149,0	134,0	119,0	95,5	74,5	49,0	-	-	-	-
EVM 32 7-0F5/15	15	20	160M	1,6	158,0	143,0	128,0	108,0	87,5	61,0	-	-	-	-
EVM 32 8-3F5/15	15	20	160M	2,5	172,0	155,0	137,0	111,0	87,0	58,0	-	-	-	-
EVM 32 8-0F5/15	15	20	160M	2,5	181,0	164,0	147,0	123,0	101,0	70,0	-	-	-	-
EVM 32 9-3F5/18.5	18,5	25	160L	2,5	194,0	175,0	156,0	127,0	100,0	67,5	-	-	-	-
EVM 32 9-0F5/18.5	18,5	25	160L	2,5	203,0	184,0	165,0	139,0	114,0	79,5	-	-	-	-
EVM 32 10-3F5/18.5	18,5	25	160L	2,5	217,0	196,0	174,0	142,0	113,0	76,5	-	-	-	-
EVM 32 10-1F5/18.5	18,5	25	160L	2,5	223,0	202,0	180,0	151,0	122,0	84,5	-	-	-	-
EVM 32 11-3F5/22	22	30	180	2,5	239,0	216,0	193,0	158,0	126,0	85,5	-	-	-	-
EVM 32 11-0F5/22	22	30	180	2,5	249,0	225,0	202,0	170,0	139,0	97,5	-	-	-	-
EVM 32 12-3F5/22	22	30	180	2,5	262,0	237,0	211,0	174,0	139,0	95,0	-	-	-	-
EVM 32 12-1F5/22	22	30	180	3,0	268,0	243,0	217,0	182,0	148,0	103,0	-	-	-	-
EVM 32 13-3F5/30	30	40	200	3,0	285,0	257,0	229,0	189,0	152,0	104,0	-	-	-	-
EVM 32 13-0F5/30	30	40	200	3,0	294,0	266,0	239,0	202,0	165,0	116,0	-	-	-	-
EVM 32 14-3F5/30	30	40	200	3,0	307,0	278,0	248,0	205,0	165,0	113,0	-	-	-	-
EVM 32 14-0F5/30	30	40	200	3,0	316,0	287,0	257,0	217,0	178,0	125,0	-	-	-	-
EVM 45 1-1F5/3.0	3	4	100	1,6	21,0	-	18,9	17,6	16,3	14,3	8,3	-	-	-
EVM 45 1-0F5/4.0	4	5,5	112	1,6	27,0	-	25,6	24,6	23,5	21,8	16,7	13,3	-	-
EVM 45 2-2F5/5.5	5,5	7,5	132S	1,6	42,0	-	38,1	35,8	33,4	29,8	18,6	-	-	-
EVM 45 2-0F5/7.5	7,5	10	132S	1,6	54,0	-	51,5	50,0	48,0	45,0	35,4	29,1	-	-
EVM 45 3-2F5/11	11	15	160M	1,6	69,0	-	64,0	61,0	58,0	53,0	37,3	-	-	-
EVM 45 3-0F5/11	11	15	160M	1,6	81,0	-	77,5	75,0	72,5	68,0	54,0	45,0	-	-
EVM 45 4-2F5/15	15	20	160M	1,6	96,0	-	90,0	86,0	82,0	76,0	56,0	43,0	-	-
EVM 45 4-0F5/15	15	20	160M	1,6	108,0	-	103,0	100,0	96,5	91,0	73,0	60,5	-	-
EVM 45 5-2F5/18.5	18,5	25	160L	1,6	123,0	-	116,0	111,0	107,0	99,0	74,5	58,5	-	-
EVM 45 5-0F5/18.5	18,5	25	160L	1,6	135,0	-	129,0	125,0	121,0	114,0	91,5	76,5	-	-
EVM 45 6-2F5/22	22	30	180	1,6	150,0	-	142,0	137,0	131,0	122,0	93,5	74,5	-	-
EVM 45 6-0F5/22	22	30	180	1,6	162,0	-	155,0	151,0	146,0	137,0	110,0	92,5	-	-
EVM 45 7-2F5/30	30	40	200	2,5	177,0	-	168,0	162,0	155,0	145,0	112,0	90,5	-	-
EVM 45 7-0F5/30	30	40	200	2,5	189,0	-	181,0	176,0	170,0	160,0	129,0	108,0	-	-
EVM 45 8-2F5/30	30	40	200	2,5	204,0	-	194,0	187,0	180,0	168,0	131,0	106,0	-	-
EVM 45 8-0F5/30	30	40	200	2,5	216,0	-	207,0	201,0	194,0	183,0	148,0	124,0	-	-
EVM 45 9-2F5/30	30	40	200	2,5	231,0	-	219,0	212,0	204,0	191,0	150,0	122,0	-	-
EVM 45 9-0F5/37	37	50	200	2,5	243,0	-	233,0	226,0	219,0	206,0	166,0	140,0	-	-
EVM 45 10-2F5/37	37	50	200	3,0	258,0	-	245,0	237,0	229,0	214,0	168,0	138,0	-	-
EVM 45 10-0F5/37	37	50	200	3,0	270,0	-	259,0	251,0	243,0	229,0	185,0	156,0	-	-
EVM 64 1-1F5/4.0	4	5,5	100	1,6	23,7	-	-	21,0	20,4	19,7	17,5	15,9	11,4	-
EVM 64 1-0F5/5.5	5,5	7,5	132S	1,6	29,3	-	-	26,6	26,1	25,4	23,7	22,3	18,5	13,5
EVM 64 2-2F5/7.5	7,5	10	132S	1,6	47,5	-	-	42,5	41,5	40,5	36,5	33,5	25,3	-
EVM 64 2-1F5/11	11	15	160M	1,6	53,0	-	-	48,0	47,0	46,0	42,5	40,0	32,4	23,0
EVM 64 2-0F5/11	11	15	160M	1,6	58,5	-	-	53,5	53,0	52,0	49,0	46,5	39,5	30,6
EVM 64 3-3F5/15	15	20	160M	1,6	71,0	-	-	64,0	62,5	61,0	55,5	51,0	39,3	-
EVM 64 3-2F5/15	15	20	160M	1,6	76,5	-	-	69,5	68,0	66,5	61,5	57,5	46,5	32,5
EVM 64 3-1F5/15	15	20	160M	1,6	82,5	-	-	75,0	74,0	72,5	68,0	64,0	53,5	40,0
EVM 64 3-0F5/18.5	18,5	25	160L	1,6	88,0	-	-	80,5	79,5	78,0	74,0	70,5	60,5	47,5
EVM 64 4-3F5/18.5	18,5	25	160L	1,6	100,0	-	-	91,0	89,0	87,0	80,5	75,5	60,5	42,0
EVM 64 4-2F5/18.5	18,5	25	160L	1,6	106,0	-	-	96,5	95,0	93,0	87,0	81,5	67,5	49,5
EVM 64 4-1F5/22	22	30	180	1,6	112,0	-	-	102,0	101,0	98,5	93,0	88,0	74,5	57,0
EVM 64 4-0F5/22	22	30	180	1,6	117,0	-	-	108,0	106,0	104,0	99,0	94,5	81,5	64,5
EVM 64 5-3F5/30	30	40	200	1,6	130,0	-	-	118,0	116,0	114,0	106,0	99,5	81,5	59,0
EVM 64 5-2F5/30	30	40	200	1,6	135,0	-	-	124,0	122,0	119,0	112,0	106,0	88,5	66,5
EVM 64 5-1F5/30	30	40	200	1,6	141,0	-	-	129,0	127,0	125,0	118,0	112,0	95,5	74,0
EVM 64 5-0F5/30	30	40	200	1,6	147,0	-	-	135,0	133,0	131,0	124,0	119,0	103,0	81,5
EVM 64 6-3F5/30	30	40	200	1,6	159,0	-	-	145,0	143,0	140,0	131,0	124,0	103,0	76,0
EVM 64 6-2F5/30	30	40	200	2,5	165,0	-	-	151,0	148,0	146,0	137,0	130,0	110,0	83,5
EVM 64 6-1F5/37	37	50	200	2,5	170,0	-	-	156,0	154,0	151,0	143,0	136,0	117,0	91,0
EVM 64 6-0F5/37	37	50	200	2,5	176,0	-	-	162,0	160,0	157,0	149,0	143,0	124,0	99,0
EVM 64 7-3F5/37	37	50	200	2,5	188,0	-	-	172,0	169,0	166,0	156,0	148,0	124,0	93,0
EVM 64 7-2F5/37	37	50	200	2,5	194,0	-	-	178,0	175,0	172,0	162,0	154,0	131,0	101,0
EVM 64 7-1F5/37	37	50	200	2,5	200,0	-	-	183,0	181,0	178,0	168,0	161,0	138,0	108,0

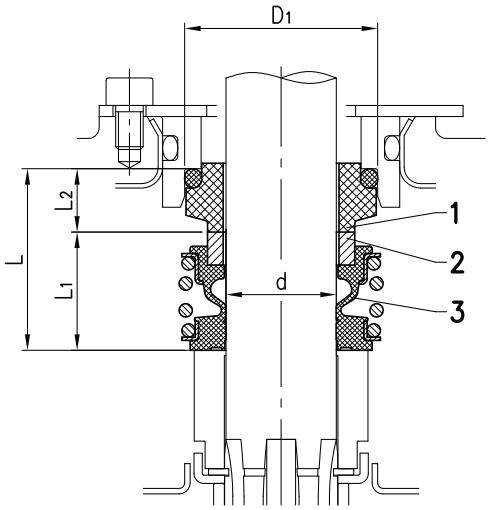
1,6 MPa = 16 bar
2,5 MPa = 25 bar
3,0 MPa = 30 bar

Shaft seals are used like a barrier in pumps in order to avoid that the pumped liquid can damage the motor, and guarantee the optimization of the results in terms of durability, reliability and replaceability. The most important features on the strength of the choice of shaft seal has to be done are:

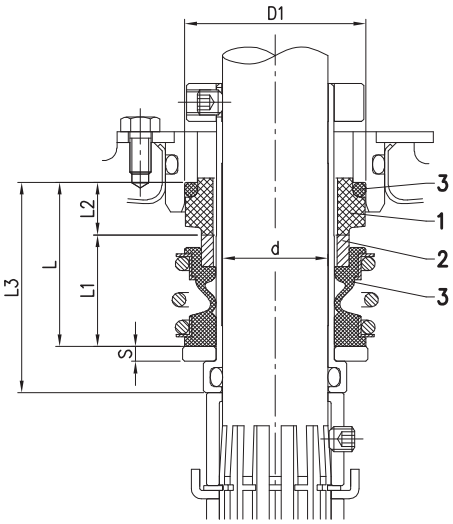
- *the liquid properties*
- *the chemical, thermal and mechanical impacts.*

On request a special mechanical shaft seal is suitable for different types of fluids.

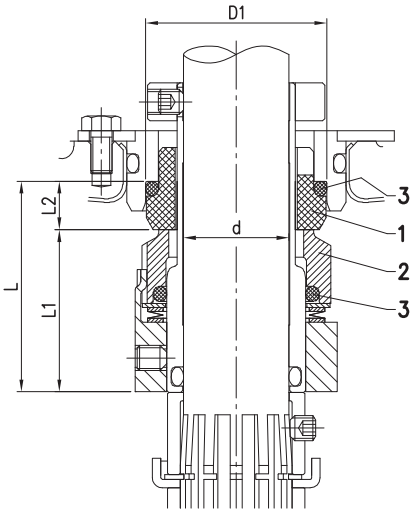
EVM 3-5-10-18



EVM 32-45-64



Up to 2.5 MPa



From 2.5 to 3.0 MPa

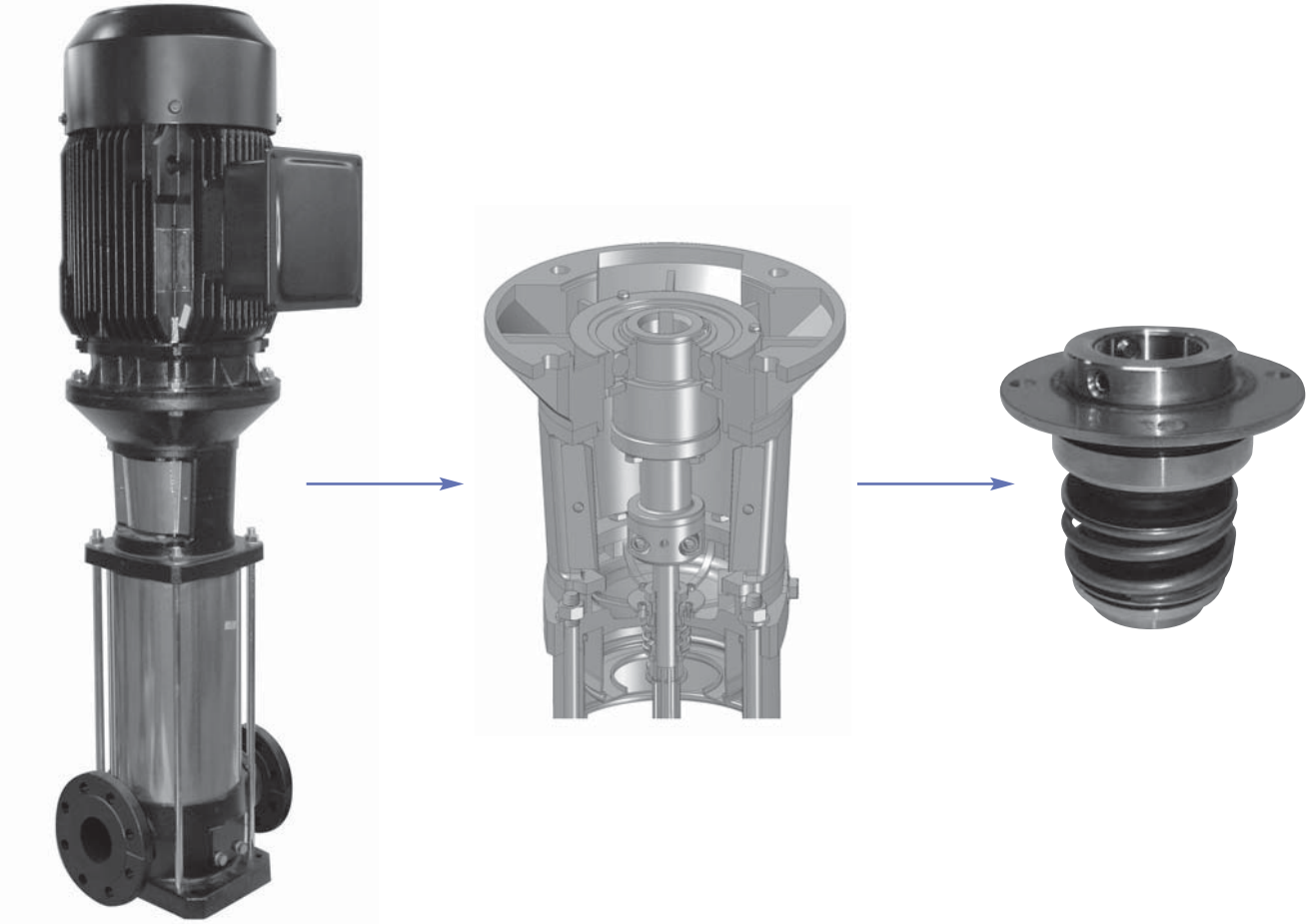
Pump Type EVM	Size [mm]	Max.working pressure [MPa]	Material Description	d [mm]	D_1 [mm]	L [mm]	L_1 [mm]	L_2 [mm]	L_3 [mm]	S [mm]	Material 1 stationary seal ring	Material 2 rotary seal ring	Material 3 rubber
EVM 3-5	12,7	1,6	Q1BVGG	12,7	23	23,5	16	7,5	-	-	Carbon graphite	Silicon carbide	FPM (EPDM WRAS approved for EWMW)
		2,5											
EVM 10	16	1,6		16	27	27	17	10	-	-			
		2,5											
EVM 18	20	1,6		20	35	33	21,5	11,5	-	-			
		2,5											
EVM 32-45-64	25	2,5		25	43	39	26,5	12,5	50	3,5			FPM
		3				50	38,5	11,5	-	-			

CARTRIDGE SHAFT SEAL

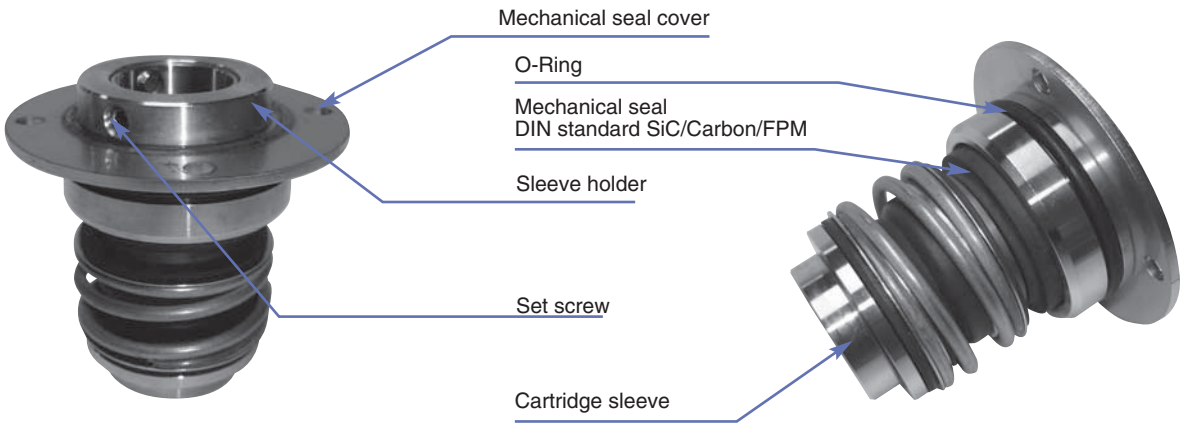
EVM 32-45-64 pumps mount the carridge shaft seal
All components of a cartridge shaft seal constitute a sole part on a shaft sleeve. The cartridge mechanical seal is ready to be installed between pump shaft and motor shaft. The most important benefits of this kind of seal are:

- *Easy to install*
- *Protected seal faces*
- *Safe and easy handling*

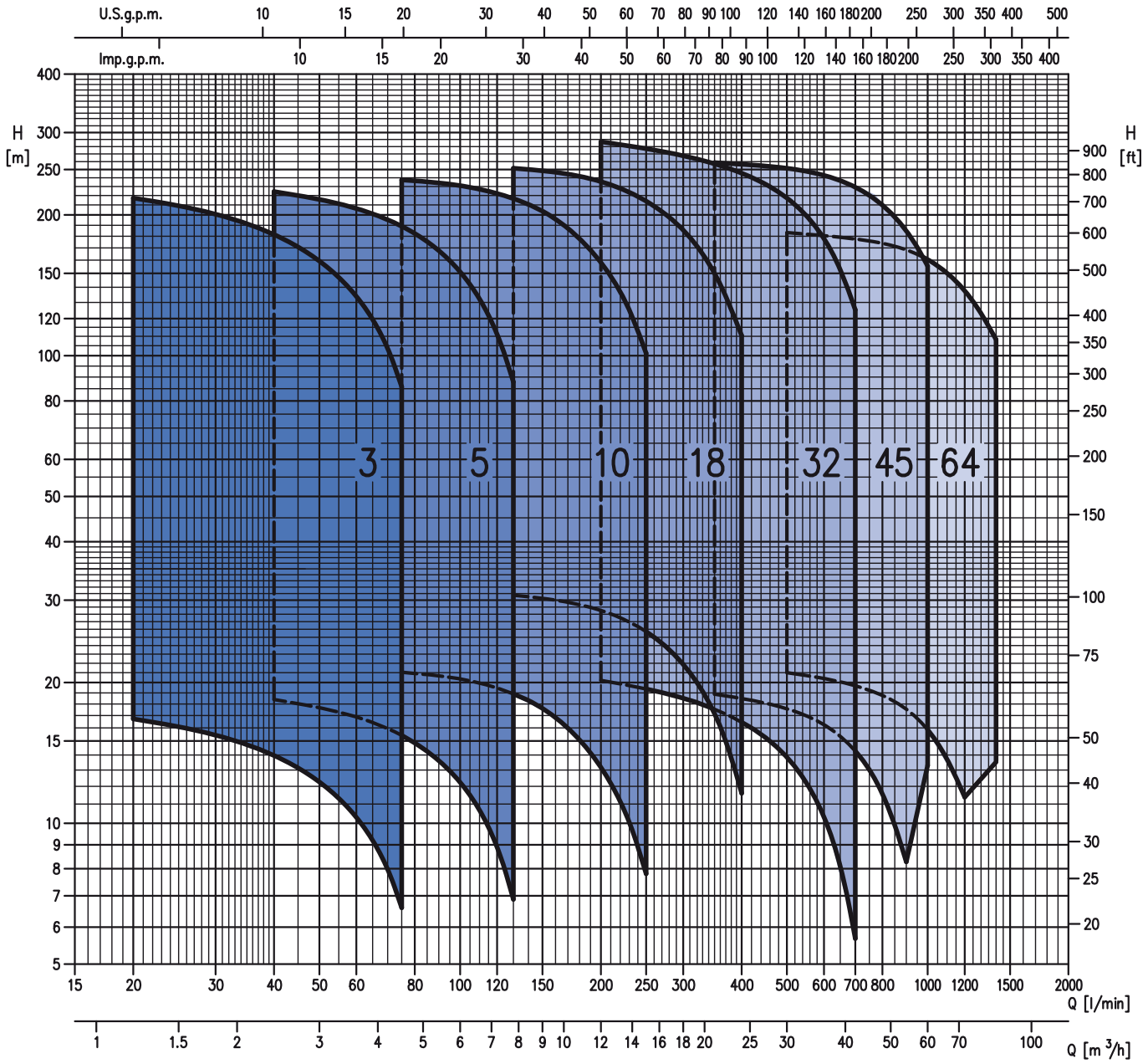
We are at disposal for evaluating your specifications and needs in order to find the best solution for your plants and applications.



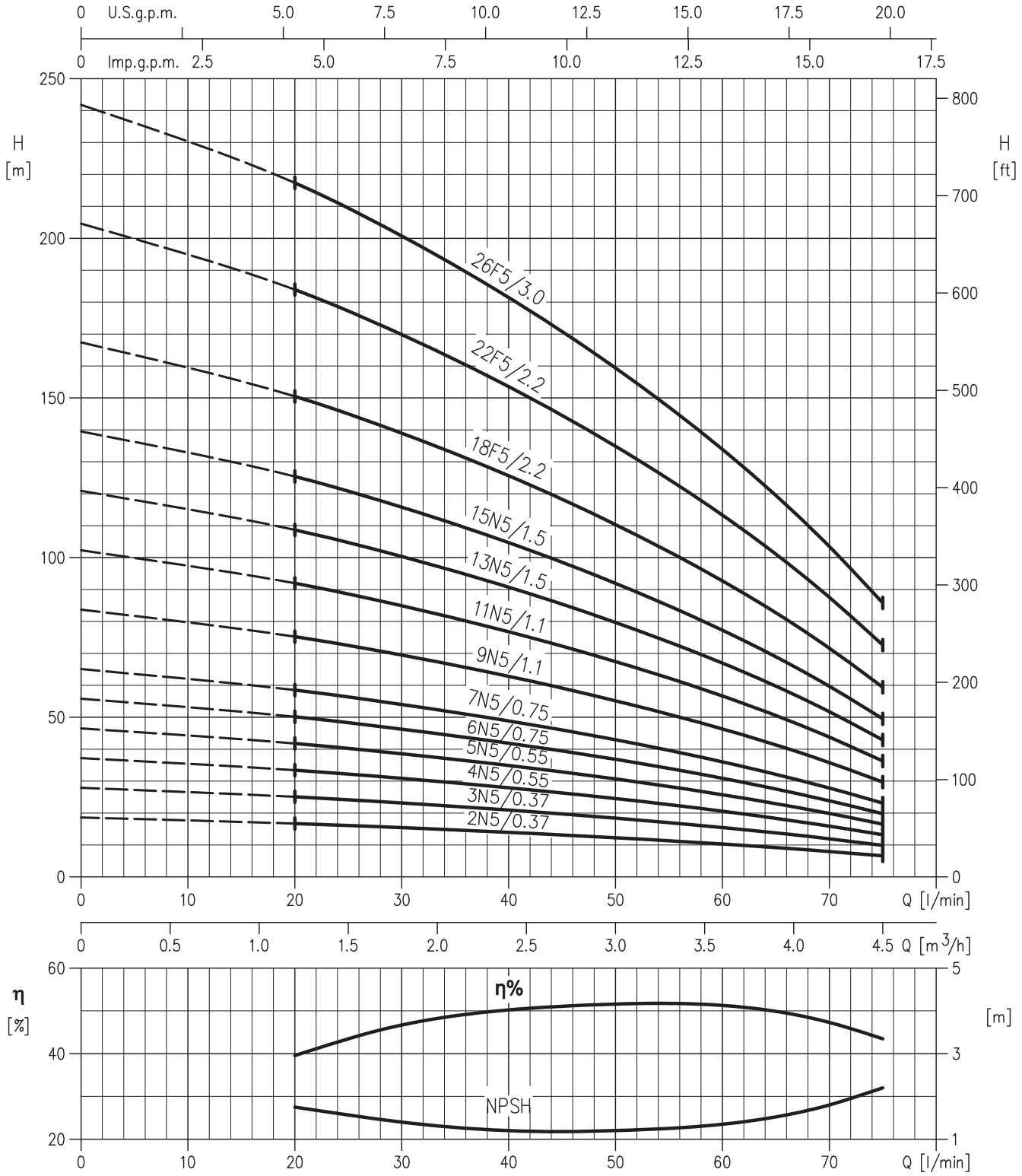
CARTRIDGE MECHANICAL SEAL FOR EVM 32-45-64



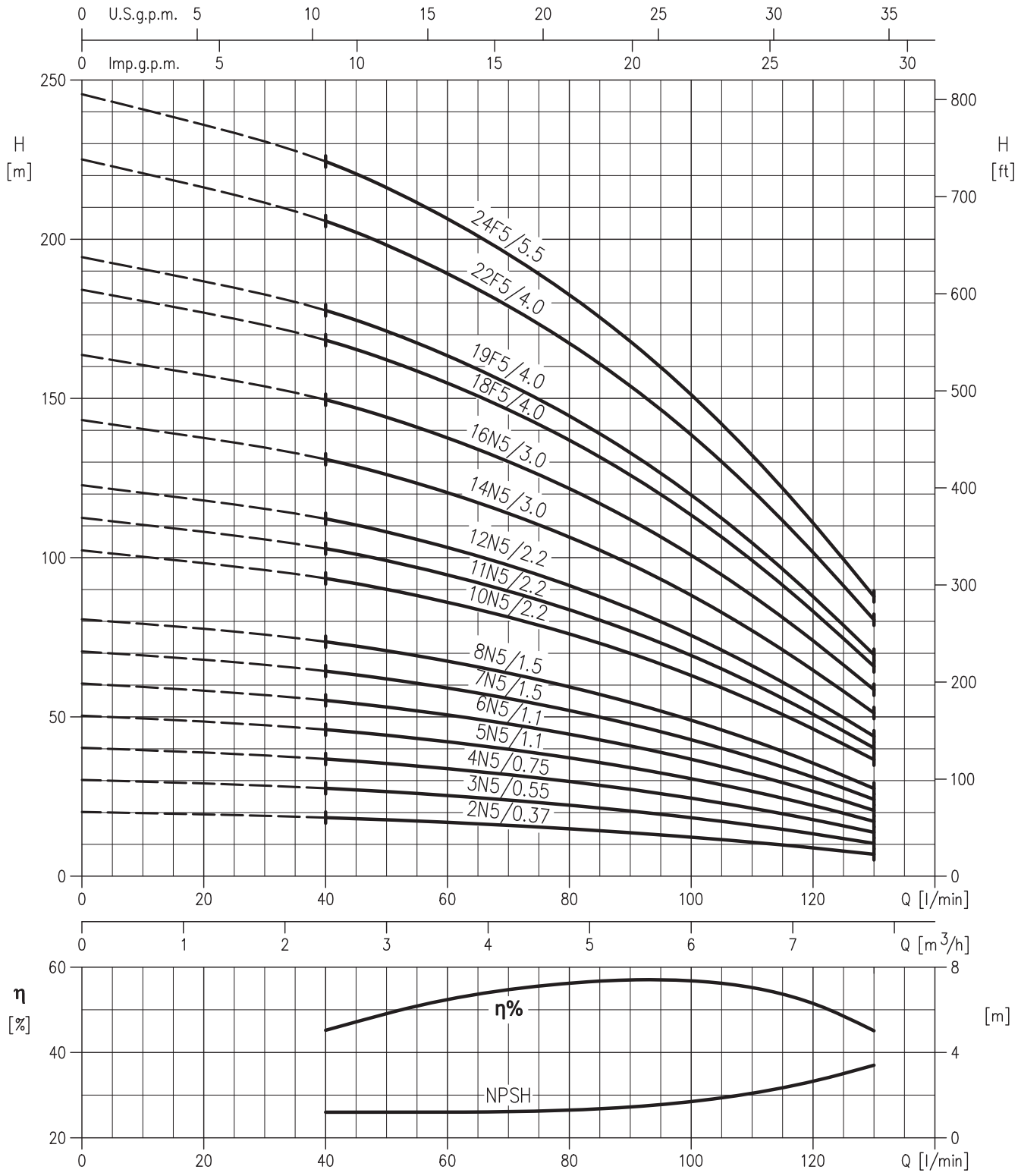
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



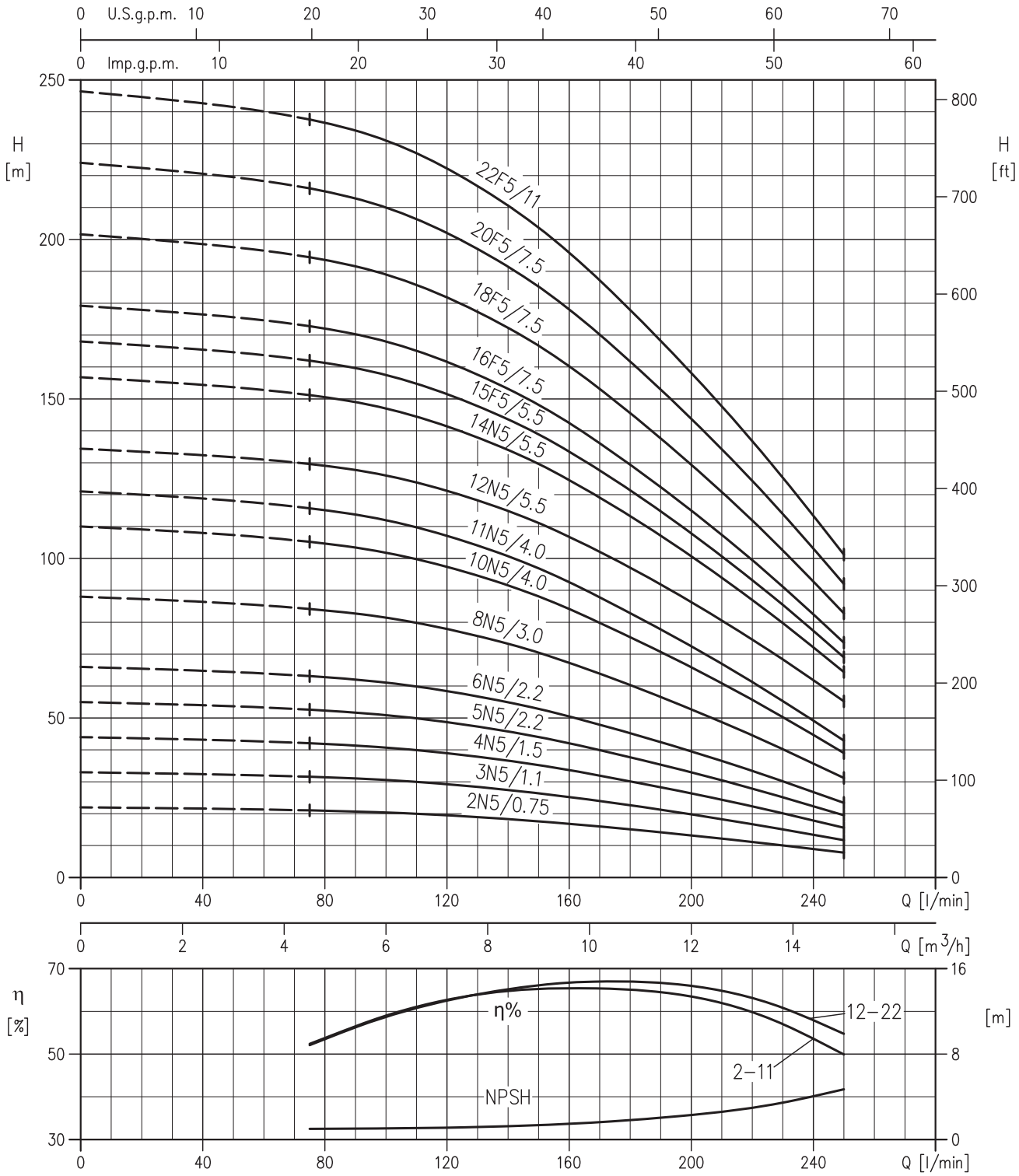
PERFORMANCE CURVES EVM 3 series *(according to ISO 9906 Annex A)*



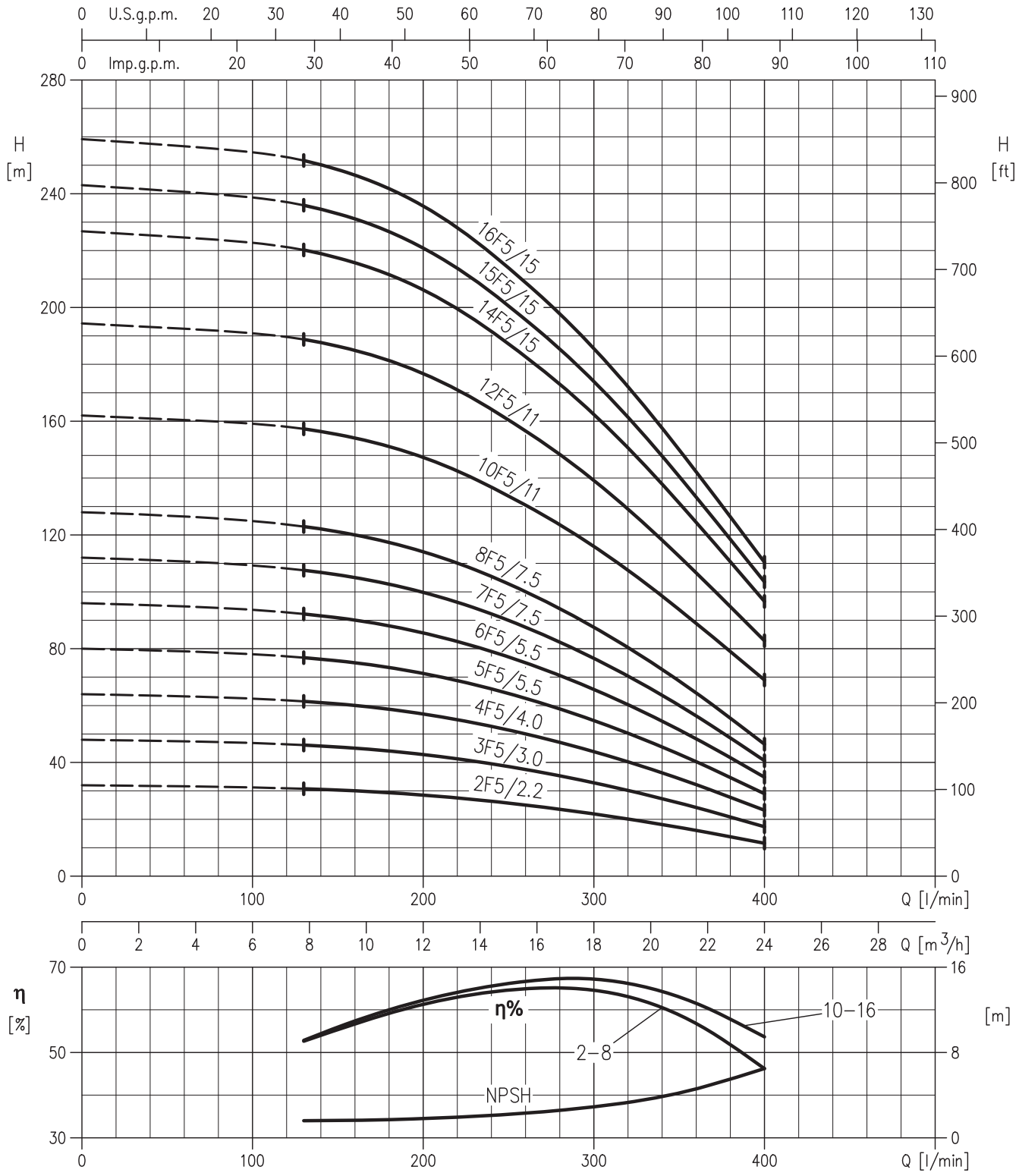
PERFORMANCE CURVES EVM 5 series *(according to ISO 9906 Annex A)*



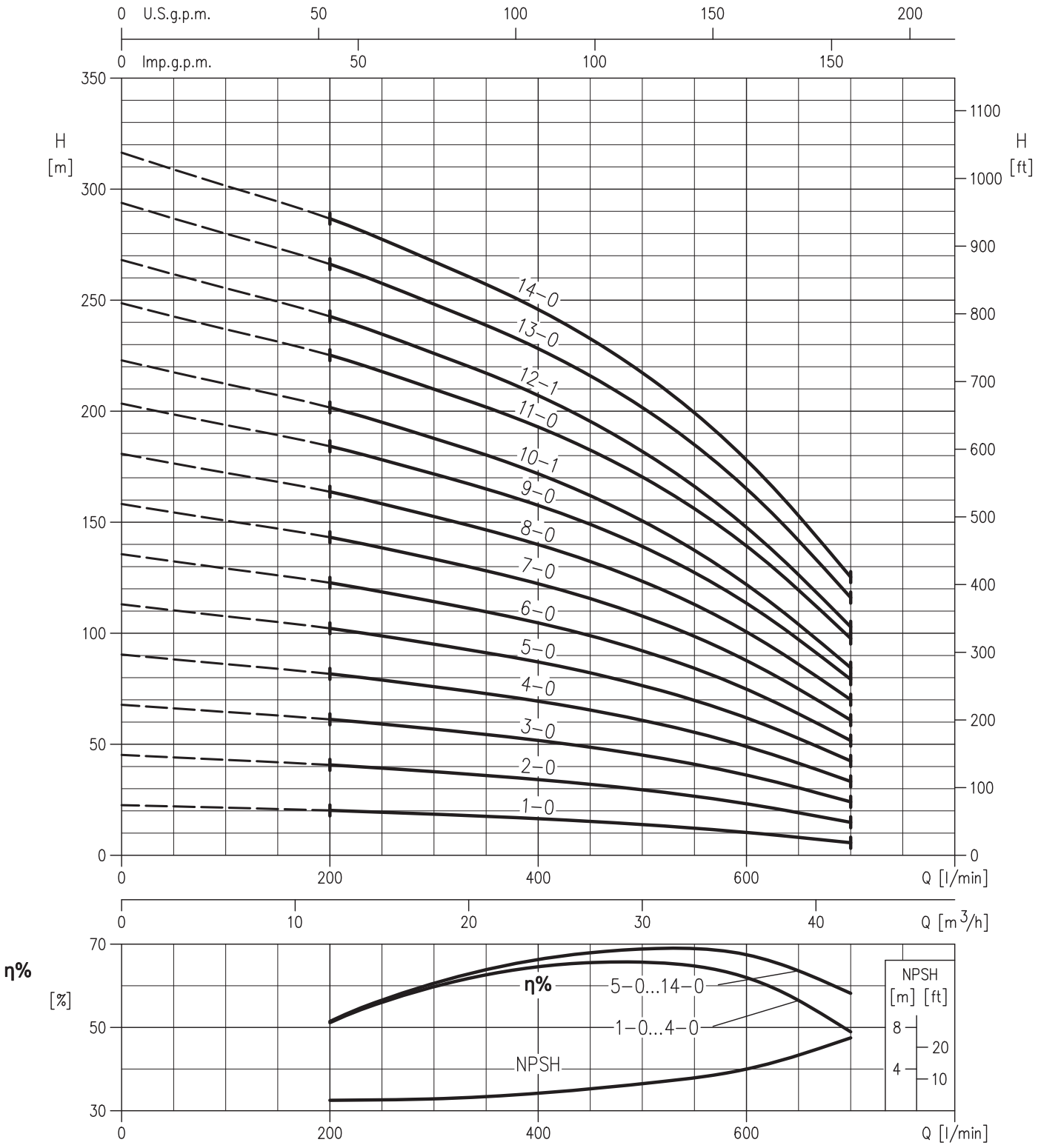
PERFORMANCE CURVES EVM 10 series *(according to ISO 9906 Annex A)*



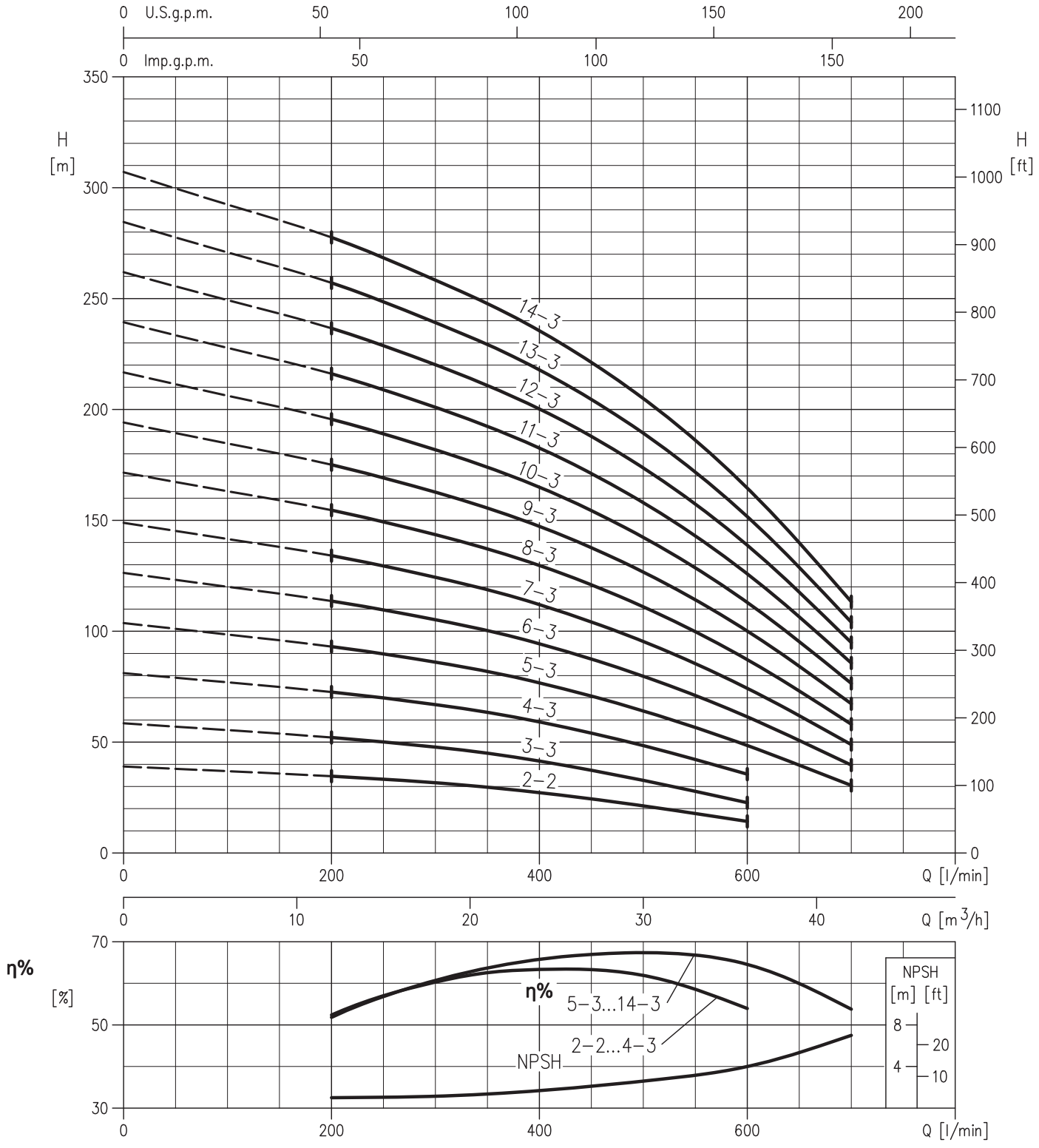
PERFORMANCE CURVES EVM 18 series (according to ISO 9906 Annex A)



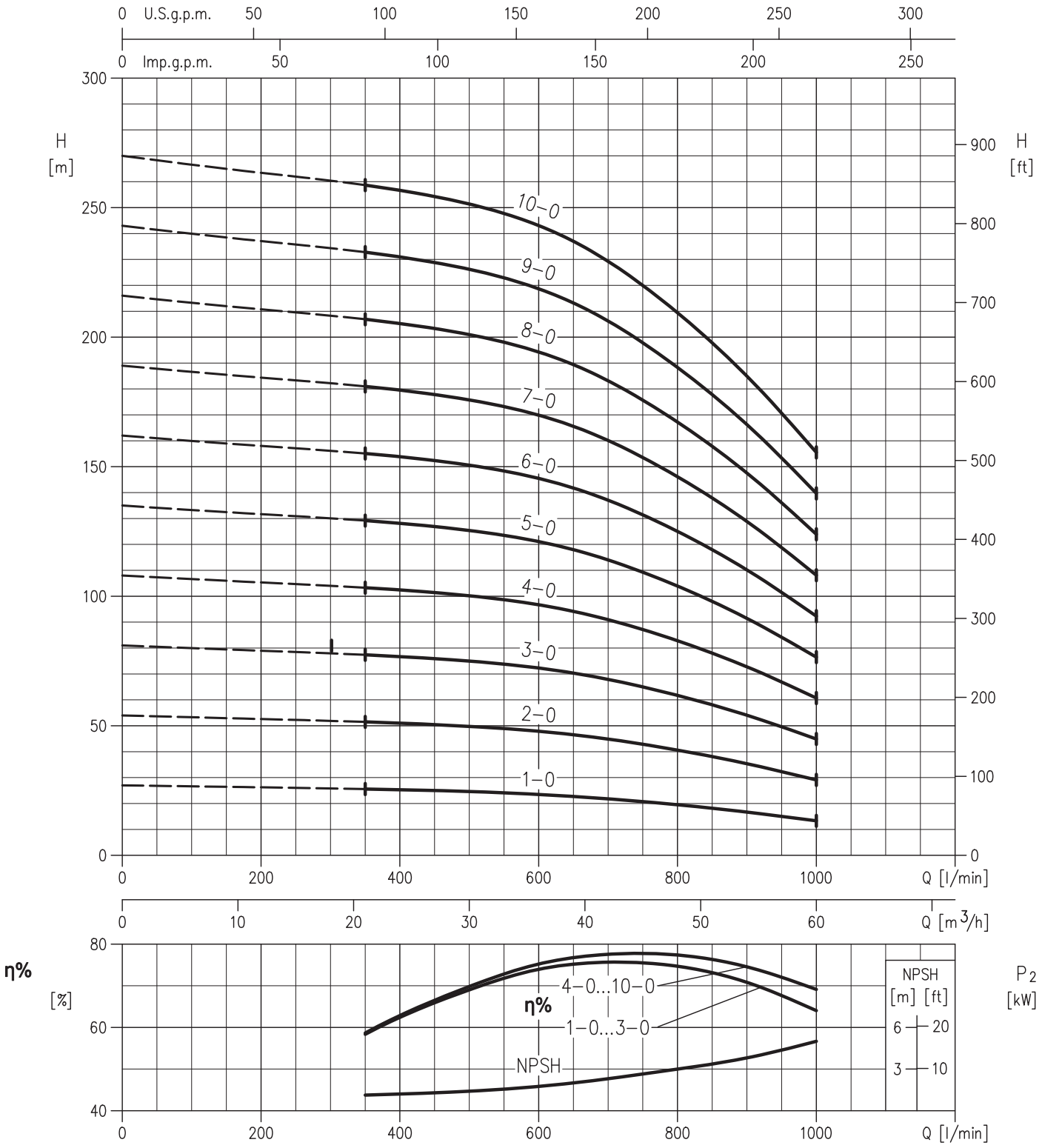
PERFORMANCE CURVES EVM 32 series (according to ISO 9906 Annex A)



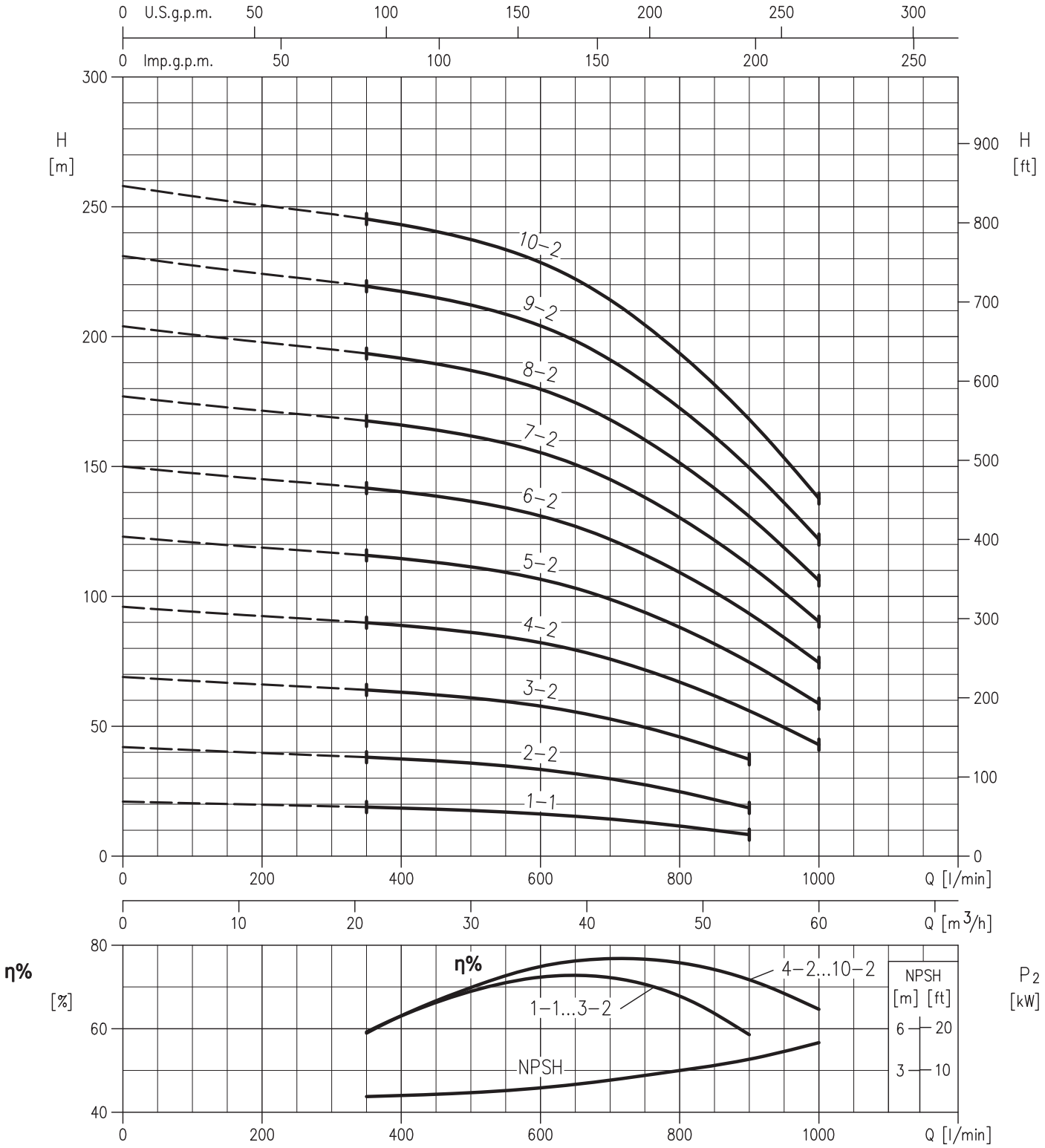
PERFORMANCE CURVES EVM 32 series *(according to ISO 9906 Annex A)*



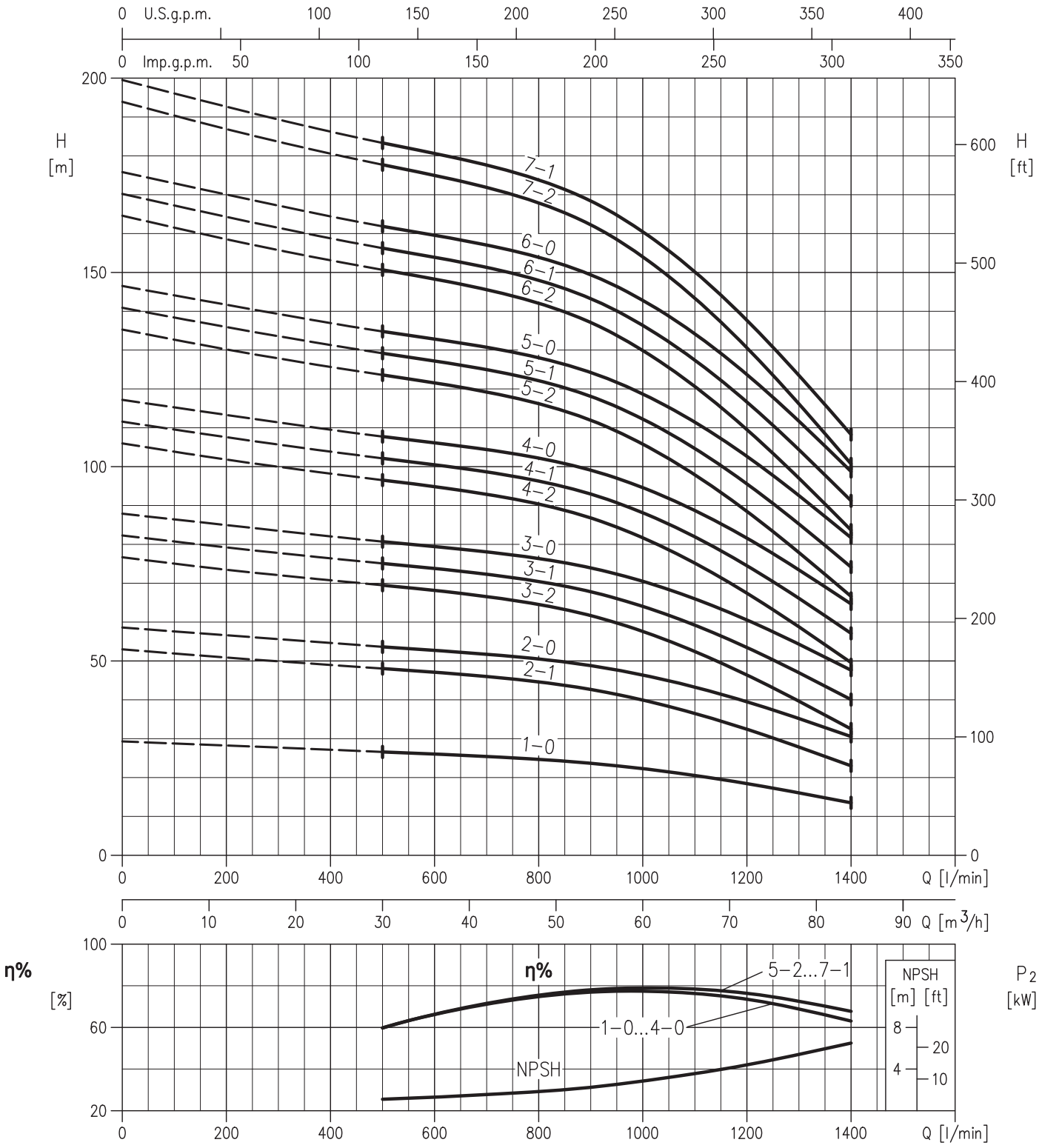
PERFORMANCE CURVES EVM 45 series *(according to ISO 9906 Annex A)*



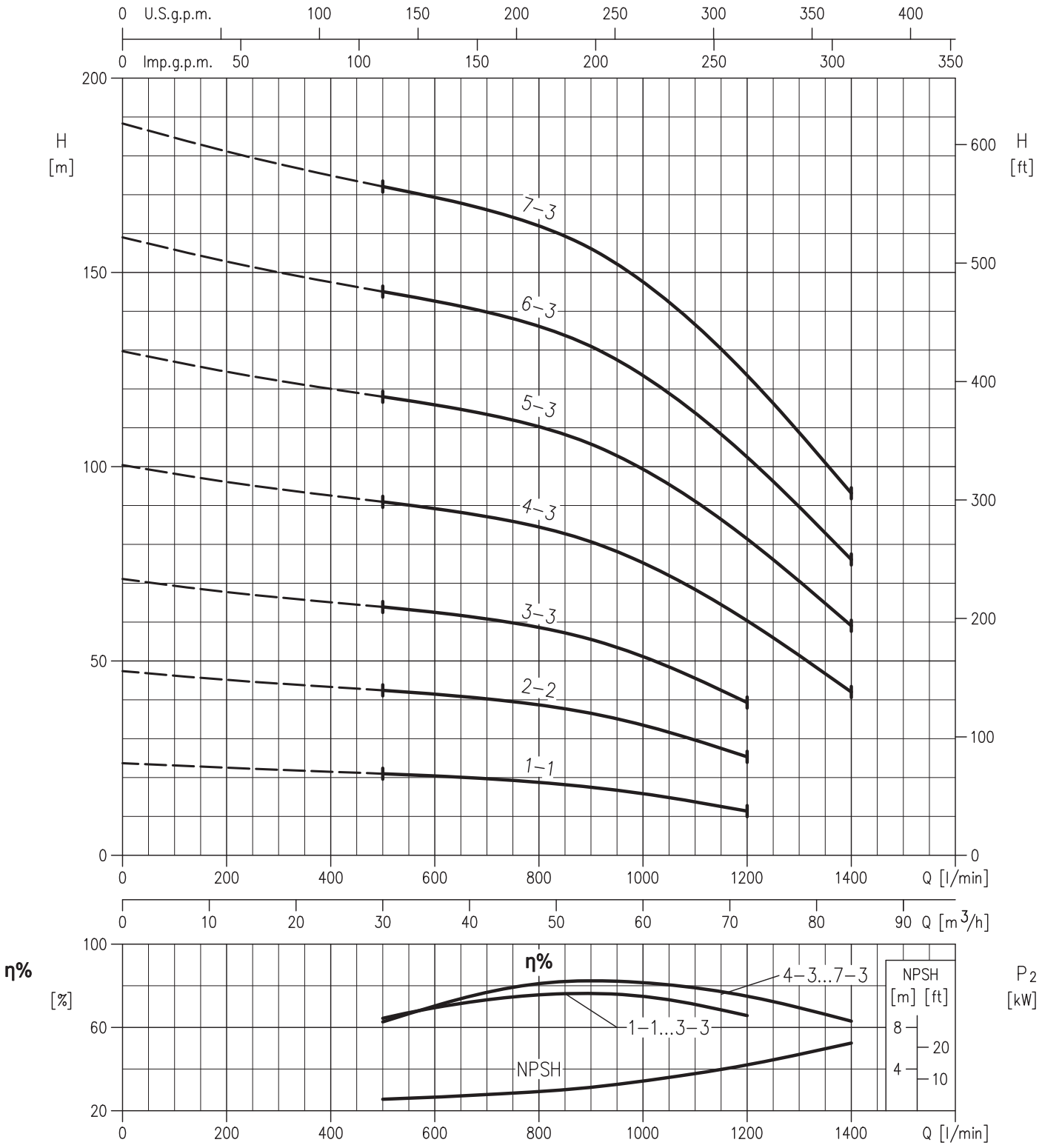
PERFORMANCE CURVES EVM 45 series *(according to ISO 9906 Annex A)*



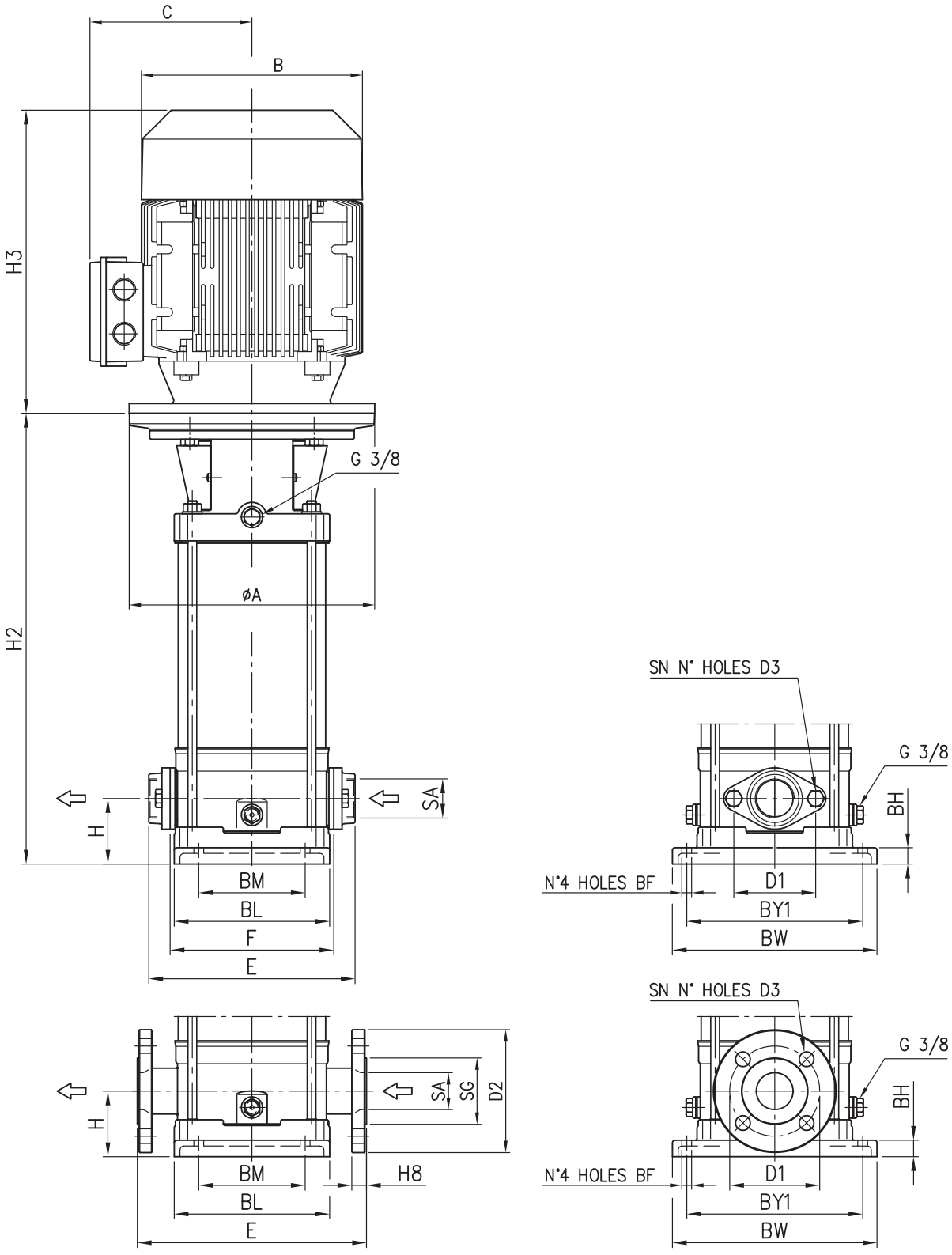
PERFORMANCE CURVES EVM 64 series (according to ISO 9906 Annex A)



PERFORMANCE CURVES EVM 64 series (according to ISO 9906 Annex A)



DIMENSIONS EVM 3-5-10-18

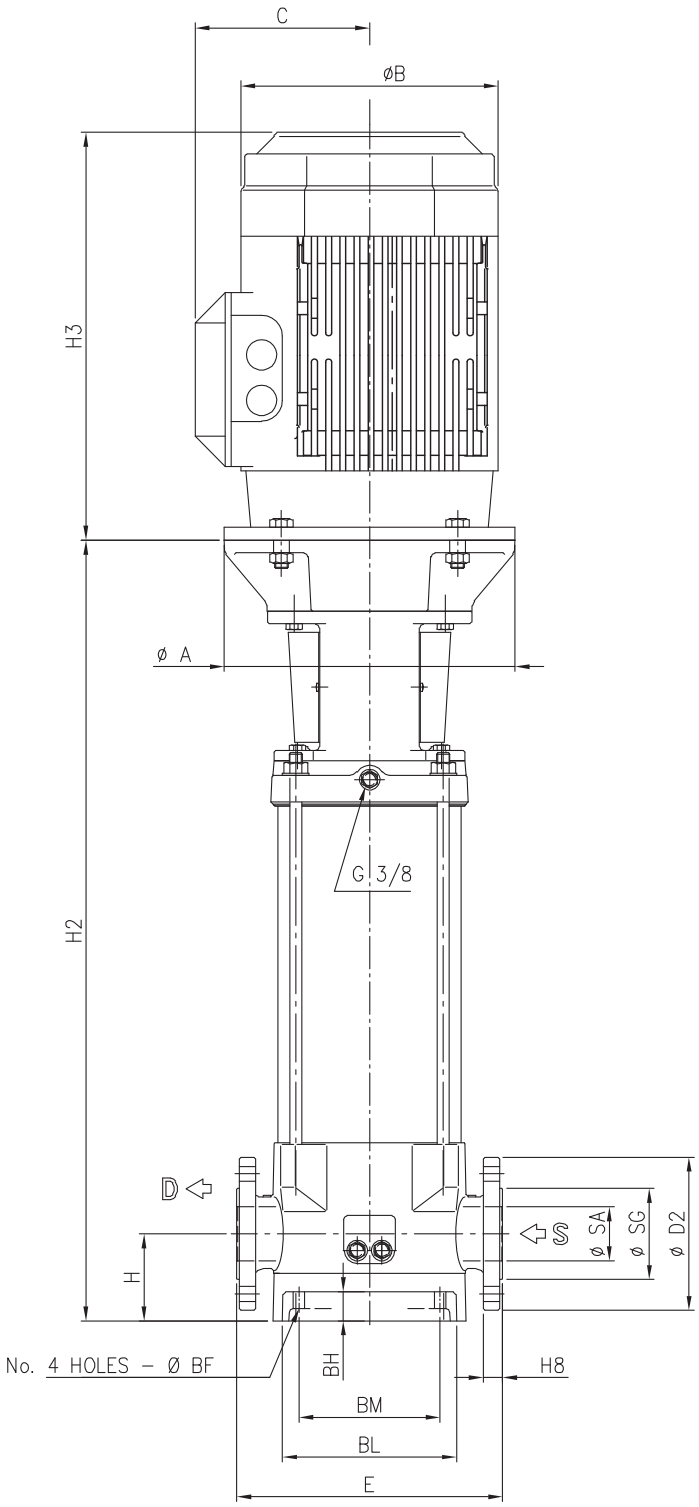


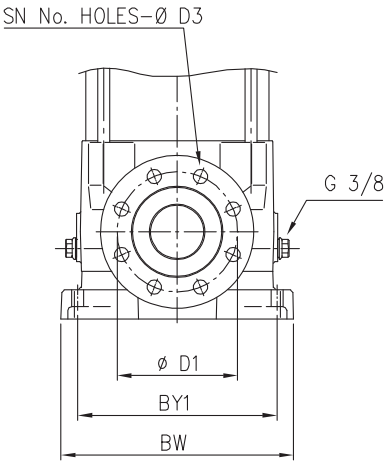
DIMENSIONAL TABLE EVM 3-5-10-18

Pump Type EVM 3-5-10-18	Pmax. [MPa]	Motor Size	Dimensions [mm]																									Weight [kg]		
	1)		H	H2	H3		F	E	B		C		BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor	
					1~	3~			1~	3~	1~	3~																1~	3~
EVM 3 2N5/0.37	1,6	71	50	241	215	215	160	206	142	142	129	112	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	11	17	17
EVM 3 3N5/0.37	1,6	71	50	262	215	215	160	206	142	142	129	112	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12	17	17
EVM 3 4N5/0.55	1,6	71	50	283	215	215	160	206	142	142	129	112	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12	19	19
EVM 3 5N5/0.55	1,6	71	50	304	215	215	160	206	142	142	129	112	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	13	20	19
EVM 3 6N5/0.75	1,6	80	50	335	232	232	160	206	160	160	150	129	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	14	25	22
EVM 3 7N5/0.75	1,6	80	50	356	232	232	160	206	160	160	150	129	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	14	25	22
EVM 3 9N5/1.1	1,6	80	50	398	232	232	160	206	160	160	150	129	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	15	27	24
EVM 3 11N5/1.1	1,6	80	50	440	232	232	160	206	160	160	150	129	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	16	28	26
EVM 3 13N5/1.5	1,6	90S	50	492	278	267	160	206	172	180	140	138	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	18	35	30
EVM 3 15N5/1.5	1,6	90S	50	534	278	267	160	206	172	180	140	138	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	19	37	32
EVM 3 18F5/2.2	2,5	90L	75	632	278	267	-	250	172	180	140	138	100	149	180	210	Ø25	Ø66	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	25	44	41
EVM 3 22F5/2.2	2,5	90L	75	717	278	267	-	250	172	180	140	138	100	149	180	210	Ø25	Ø66	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	27	47	43
EVM 3 26F5/3.0	2,5	100	75	811	-	306	-	250	-	196	-	145	100	149	180	210	Ø25	Ø66	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø160	31	-	50
EVM 5 2N5/0.37	1,6	71	50	255	215	215	160	206	142	142	129	112	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	12	17	17
EVM 5 3N5/0.55	1,6	71	50	283	215	215	160	206	142	142	129	112	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	12	19	18
EVM 5 4N5/0.75	1,6	80	50	321	232	232	160	206	160	160	150	129	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	13	24	21
EVM 5 5N5/1.1	1,6	80	50	349	232	232	160	206	160	160	150	129	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	14	25	23
EVM 5 6N5/1.1	1,6	80	50	377	232	232	160	206	160	160	150	129	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	14	26	24
EVM 5 7N5/1.5	1,6	90S	50	415	278	267	160	206	172	180	140	138	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	15	33	28
EVM 5 8N5/1.5	1,6	90S	50	443	278	267	160	206	172	180	140	138	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	16	33	28
EVM 5 10N5/2.2	1,6	90L	50	509	278	267	160	206	172	180	140	138	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	18	37	34
EVM 5 11N5/2.2	1,6	90L	50	537	278	267	160	206	172	180	140	138	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	19	39	35
EVM 5 12N5/2.2	1,6	90L	50	565	278	267	160	206	172	180	140	138	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	20	39	36
EVM 5 14N5/3.0	1,6	100	50	631	-	306	160	206	-	196	-	145	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	22	-	41
EVM 5 16N5/3.0	1,6	100	50	688	-	306	160	206	-	196	-	145	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	23	-	43
EVM 5 18F5/4.0	2,5	112	75	769	-	306	-	250	-	196	-	145	100	149	180	210	Ø32	Ø76	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	29	-	56
EVM 5 19F5/4.0	2,5	112	75	797	-	306	-	250	-	196	-	145	100	149	180	210	Ø32	Ø76	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	29	-	57
EVM 5 22F5/4.0	2,5	112	75	881	-	306	-	250	-	196	-	145	100	149	180	210	Ø32	Ø76	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	31	-	59
EVM 5 24F5/5.5	2,5	132S	75	948	-	370	-	250	-	270	-	198	100	149	180	210	Ø32	Ø76	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø300	35	-	75
EVM 10 2N5/0.75	1,6	80	80	333	232	232	200	252	160	160	150	129	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø120	18	29	26
EVM 10 3N5/1.1	1,6	80	80	363	232	232	200	252	160	160	150	129	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø120	20	31	29
EVM 10 4N5/1.5	1,6	90S	80	403	278	267	200	252	172	180	140	138	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	22	40	35
EVM 10 5N5/2.2	1,6	90L	80	443	278	267	200	252	172	180	140	138	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	23	42	39
EVM 10 6N5/2.2	1,6	90L	80	473	278	267	200	252	172	180	140	138	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	24	44	40
EVM 10 8N5/3.0	1,6	100	80	543	-	306	200	252	-	196	-	145	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	31	-	50
EVM 10 10N5/4.0	1,6	112	80	603	-	306	200	252	-	196	-	145	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	32	-	59
EVM 10 11N5/4.0	1,6	112	80	633	-	306	200	252	-	196	-	145	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	34	-	61
EVM 10 12N5/5.5	1,6	132S	80	674	-	370	200	252	-	270	-	198	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø300	39	-	79
EVM 10 14N5/5.5	1,6	132S	80	734	-	370	200	252	-	270	-	198	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø300	42	-	82
EVM 10 15F5/5.5	2,5	132S	80	764	-	370	-	280	-	270	-	198	130	190	215	250	Ø40	Ø88	Ø110	Ø150	20	4	Ø18	Ø12	20	Ø300	46	-	86
EVM 10 16F5/7.5	2,5	132S	80	794	-	370	-	280	-	270	-	198	130	190	215	250	Ø40	Ø88	Ø110	Ø150	20	4	Ø18	Ø12	20	Ø300	48	-	93
EVM 10 18F5/7.5	2,5	132S	80	854	-	370	-	280	-	270	-	198	130	190	215	250	Ø40	Ø88	Ø110	Ø150	20	4	Ø18	Ø12	20	Ø300	50	-	95
EVM 10 20F5/7.5	2,5	132S	80	915	-	370	-	280	-	270	-	198	130	190	215	250	Ø40	Ø88	Ø110	Ø150	20	4	Ø18	Ø12	20	Ø300	50	-	95
EVM 10 22F5/11	2,5	160M	80	1005	-	503	-	280	-	335	-	246	130	190	215	250	Ø40	Ø88	Ø110	Ø150	20	4	Ø18	Ø12	20	Ø350	56	-	137
EVM 18 2F5/2.2	1,6	90L	90	373	278	267	-	300	172	180	140	138	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø140	27	47	43
EVM 18 3F5/3.0	1,6	100	90	423	-	306	-	300	-	196	-	145	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø160	29	29	48
EVM 18 4F5/4.0	1,6	112	90	473	-	306	-	300	-	196	-	145	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø160	31	-	59
EVM 18 5F5/5.5	1,6	132S	90	524	-	370	-	300	-	270	-	198	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø300	38	-	78
EVM 18 6F5/5.5	1,6	132S	90	564	-	370	-	300	-	270	-	198	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø300	41	-	81
EVM 18 7F5/7.5	2,5	132S	90	604	-	370	-	300	-	270	-	198	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø300	44	-	89
EVM 18 8F5/7.5	2,5	132S	90	644	-	370	-	300	-	270	-	198	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø300	44	-	89
EVM 18 10F5/11	2,5	160M	90	754	-	503	-	300	-	335	-	246	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø350	54	-	135
EVM 18 12F5/11	2,5	160M	90	834	-	503	-	300	-	335	-	246	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø350	57	-	138
EVM 18 14F5/15	2,5	160M	90	914	-	503	-	300	-	335	-	246	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø350	58	-	151
EVM 18 15F5/15	2,5	160M	90	955	-	503	-	300	-	335	-	246	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø350	58	-	151
EVM 18 16F5/15	2,5	160M	90	995	-	503	-	300	-	335	-	246	130	190	215	250	Ø50	Ø102	Ø125	Ø165	20	4	Ø18	Ø12	20	Ø350	61	-	154

[1] 1,6 MPa = 16 bar
2,5 MPa = 25 bar

DIMENSIONS EVM 32-45-64



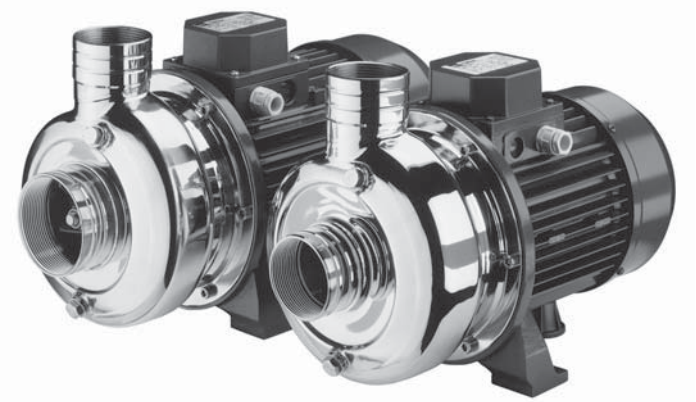


DIMENSIONAL TABLE EVM 32-45-64

Pump Type EVM 32-45-64	Pmax. [MPa] 1)	Motor size	Dimensions [mm]																				Weight [kg]	
			H	H2	H3 3~	E	B 3~	C 3~	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor
32 1-0F5/2.2	1.6	90L	105	493	267	320	180	138	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	140	56	72
32 2-2F5/3.0	1.6	100	105	503	306	320	196	145	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160	58	77
32 2-0F5/4.0	1.6	112	105	503	306	320	196	145	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160	58	85
32 3-3F5/5.5	1.6	132S	105	572	370	320	270	198	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	74	114
32 3-0F5/5.5	1.6	132S	105	572	370	320	270	198	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	74	114
32 4-3F5/7.5	1.6	132S	105	620	370	320	270	198	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	77	122
32 4-0F5/7.5	1.6	132S	105	620	370	320	270	198	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	77	122
32 5-3F5/11	1.6	160M	105	799	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	96	177
32 5-0F5/11	1.6	160M	105	799	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	96	177
32 6-3F5/11	1.6	160M	105	847	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	99	180
32 6-0F5/11	1.6	160M	105	847	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	99	180
32 7-3F5/15	1.6	160M	105	895	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	102	195
32 7-0F5/15	1.6	160M	105	895	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	102	195
32 8-3F5/15	2.5	160M	105	943	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	105	198
32 8-0F5/15	2.5	160M	105	943	503	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	105	198
32 9-3F5/18.5	2.5	160L	105	991	547	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	108	209
32 9-0F5/18.5	2.5	160L	105	991	547	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	108	209
32 10-3F5/18.5	2.5	160L	105	1039	547	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	112	213
32 10-1F5/18.5	2.5	160L	105	1039	547	320	335	246	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	112	213
32 11-3F5/22	2.5	180	105	1087	602	320	366	266	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	116	246
32 11-0F5/22	2.5	180	105	1087	602	320	366	266	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	116	246
32 12-3F5/22	2.5	180	105	1135	602	320	366	266	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	119	249
32 12-1F5/22	3.0	180	105	1135	602	320	366	266	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	119	249
32 13-3F5/30	3.0	200	105	1198	669	320	405	341	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	129	301
32 13-0F5/30	3.0	200	105	1198	669	320	405	341	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	129	301
32 14-3F5/30	3.0	200	105	1246	669	320	405	341	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	133	305
32 14-0F5/30	3.0	200	105	1246	669	320	405	341	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	133	305
45 1-1F5/3.0	1.6	100	140	525	306	365	196	145	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160	71	90
45 1-0F5/4.0	1.6	112	140	525	306	365	196	145	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160	73	100
45 2-2F5/5.5	1.6	132S	140	618	370	365	270	198	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300	81	121
45 2-0F5/7.5	1.6	132S	140	618	370	365	270	198	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300	81	126
45 3-2F5/11	1.6	160M	140	821	503	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	99	180
45 3-0F5/11	1.6	160M	140	821	503	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	99	180
45 4-2F5/15	2.5	160M	140	893	503	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	108	189
45 4-0F5/15	2.5	160M	140	893	503	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	108	189
45 5-2F5/18.5	2.5	160L	140	965	547	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	128	229
45 5-0F5/18.5	2.5	160L	140	965	547	365	335	246	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	128	229
45 6-2F5/22	2.5	180	140	1037	602	365	366	266	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	133	263
45 6-0F5/22	2.5	180	140	1037	602	365	366	266	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	133	263
45 7-2F5/30	2.5	200	140	1124	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	139	311
45 7-0F5/30	2.5	200	140	1124	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	139	311
45 8-2F5/30	2.5	200	140	1196	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	146	318
45 8-0F5/30	2.5	200	140	1196	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	146	318
45 9-2F5/3.0	2.5	200	140	1269	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	151	323
45 9-0F5/37	2.5	200	140	1269	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	151	341
45 10-2F5/37	3.0	200	140	1341	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	156	346
45 10-0F5/37	3.0	200	140	1341	669	365	405	341	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	156	346
64 1-1F5/4.0	1.6	100	140	525	306	365	196	145	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	160	70	98
64 1-0F5/5.5	1.6	132	140	546	370	365	270	198	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300	77	117
64 2-2F5/7.5	1.6	132	140	618	370	365	270	198	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300	81	126
64 2-1F5/11	1.6	160M	140	749	503	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	94	175
64 2-0F5/11	1.6	160M	140	749	503	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	94	175
64 3-3F5/15	1.6	160M	140	821	503	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	192
64 3-2F5/15	1.6	160M	140	821	503	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	192
64 3-1F5/15	1.6	160M	140	821	503	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	192
64 3-0F5/18.5	1.6	160L	140	821	547	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	200
64 4-3F5/18.5	1.6	160L	140	893	547	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	108	209
64 4-2F5/18.5	1.6	160L	140	893	547	365	335	246	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	108	209
64 4-1F5/22	1.6	180	140	893	602	365	366	266	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	116	246
64 4-0F5/22	1.6	180	140	893	602	365	366	266	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	116	246
64 5-3F5/30	1.6	200	140	980	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	300
64 5-2F5/30	1.6	200	140	980	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	300
64 5-1F5/30	1.6	200	140	980	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	300
64 5-0F5/30	1.6	200	140	980	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	300
64 6-3F5/30	1.6	200	140	1052	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	136	308
64 6-2F5/30	2.5	200	140	1052	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	308
64 6-1F5/37	2.5	200	140	1052	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	326
64 6-0F5/37	2.5	200	140	1052	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	326
64 7-3F5/37	2.5	200	140	1124	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	329
64 7-2F5/37	2.5	200	140	1124	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	329
64 7-1F5/37	2.5	200	140	1124	669	365	405	341	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	329

1) 1,6 MPa = 16 bar
2,5 MPa = 25 bar
3,0 MPa = 30 bar

Open impeller centrifugal pumps with the hydraulic element manufactured from stainless steel AISI 304, suitable for suspended solids handling food process e.g. washing vegetables, meats, and fish. Industrial washing machines that may contain solids e.g. bottles, jars, glasses and crates. Process applications such as paint plants and general dirty liquid handling.



SPECIFICATIONS

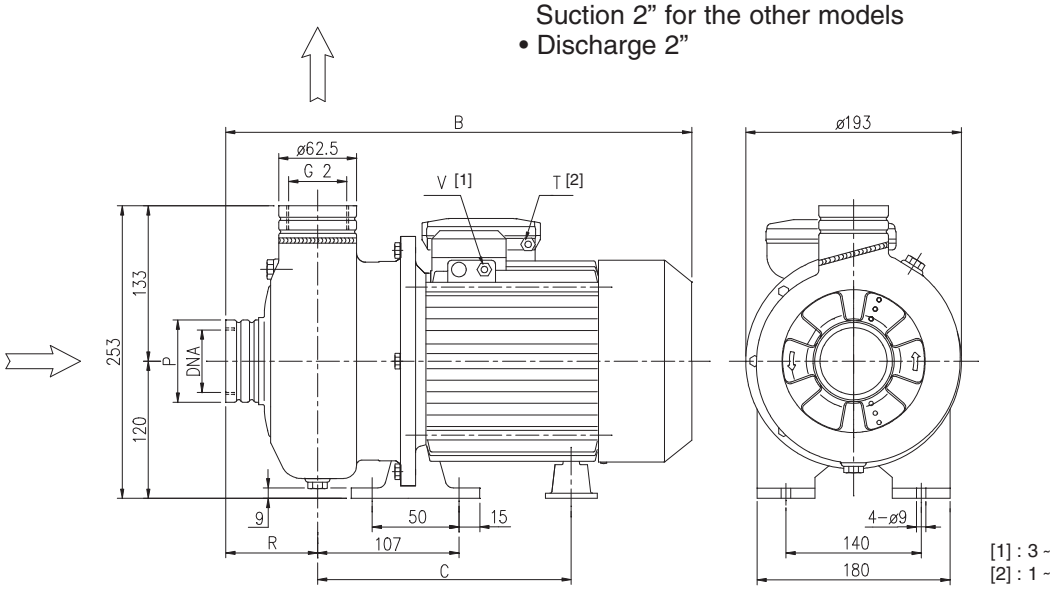
- Maximum working pressure: 8 bar
- Maximum liquid temperature: 90°C
- Passage of solids: maximum diameter of 19 mm

MATERIALS

- Pump body, casing cover, impeller and shaft in AISI 304
- Bracket and motor casing in aluminium
- Mechanical seal in ceramic/carbon/NBR
- Special mechanical seal are available on demand

TECHNICAL DATA

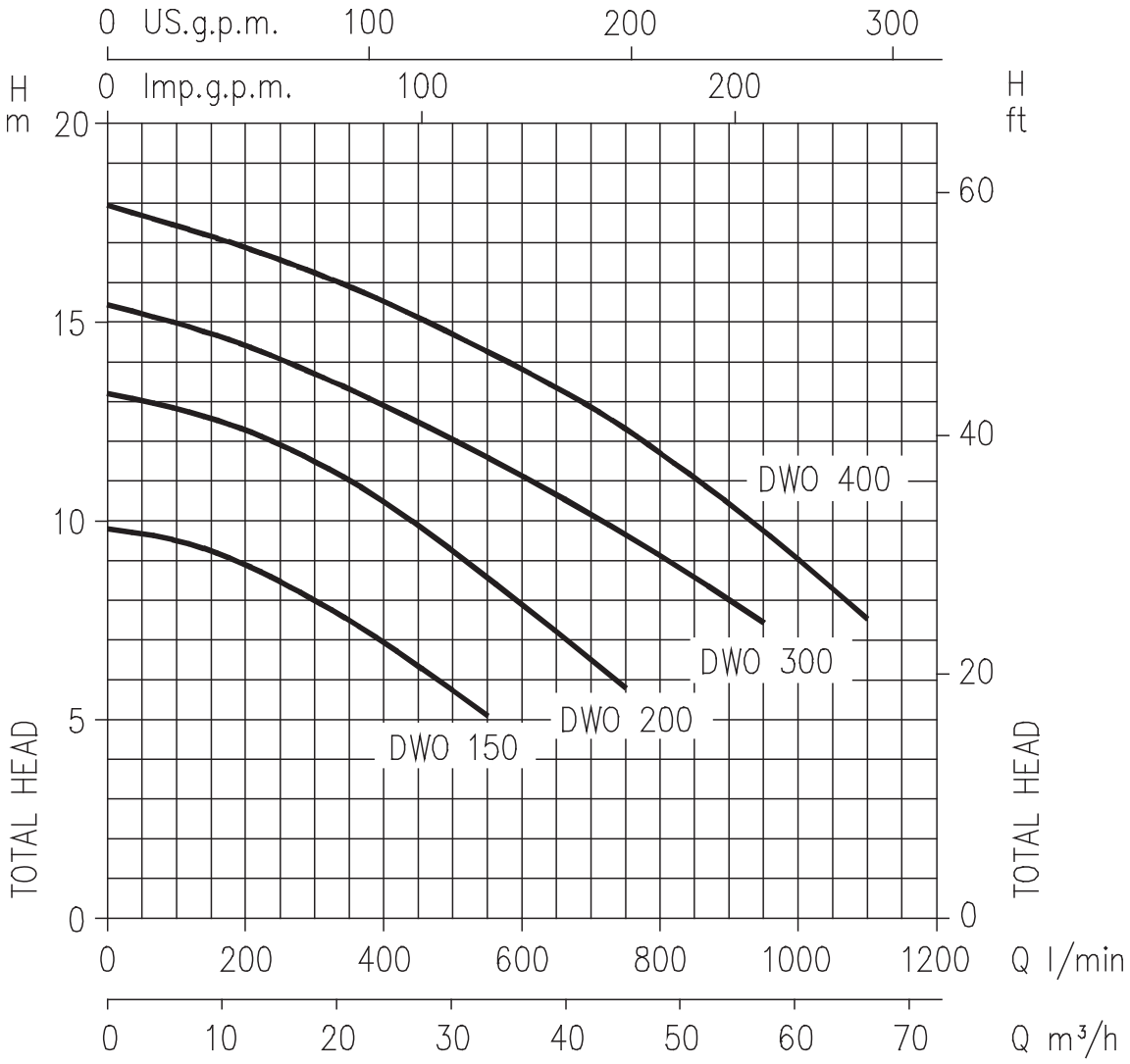
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 2"1/2 for DWO 300-400
  Suction 2" for the other models
- Discharge 2"



DIMENSIONAL TABLE

Pump type		Dimensions (mm)							Weight (kg)	
		B	C	R	Ø P	V	T	Ø DNA		
Single-phase	Three-phase					3~	1~		1~	3~
DWO 150 M	DWO 150	364	198,5	74	62,5	PG11	PG13,5	G 2	13,6	12,6
DWO 200 M	DWO 200	364	198,5	74	62,5	PG11	PG13,5	G 2	15,7	14,4
-	DWO 300	390	215,5	78	80	PG13,5	-	G 2 1/2		16,9
-	DWO 400	415	240,5	78	80	PG13,5	-	G 2 1/2	-	20,0

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	100 / 6	200 / 12	300 / 18	400 / 24	550 / 33	750 / 42	950 / 57	1100 / 66
									H=Total head							
DWO 150 M	DWO 150	1,1	31,5	450	6,8	4,4	2,5		9,5	8,9	7,9	6,9	5,1	-	-	-
DWO 200 M	DWO 200	1,5	40	450	9,0	6,1	3,5		12,7	12,3	11,5	10,5	8,6	5,8	-	-
-	DWO 300	2,2	-	-	-	8,3	4,8		15	14,5	13,8	12,9	11,7	9,7	7,5	-
-	DWO 400	3,0	-	-	-	11,0	6,4		17,5	16,9	16,3	15,6	14,3	12,4	9,8	7,6

CENTRIFUGAL PUMPS - CLOSED IMPELLER in AISI 304

Centrifugal pumps in stainless steel AISI 304, suitable for water supply and general water pumping, refrigeration plants, conditioning and heating systems, chillers.

SPECIFICATIONS

- Maximum working pressure: 8 bar
- Maximum liquid temperature: 90°C

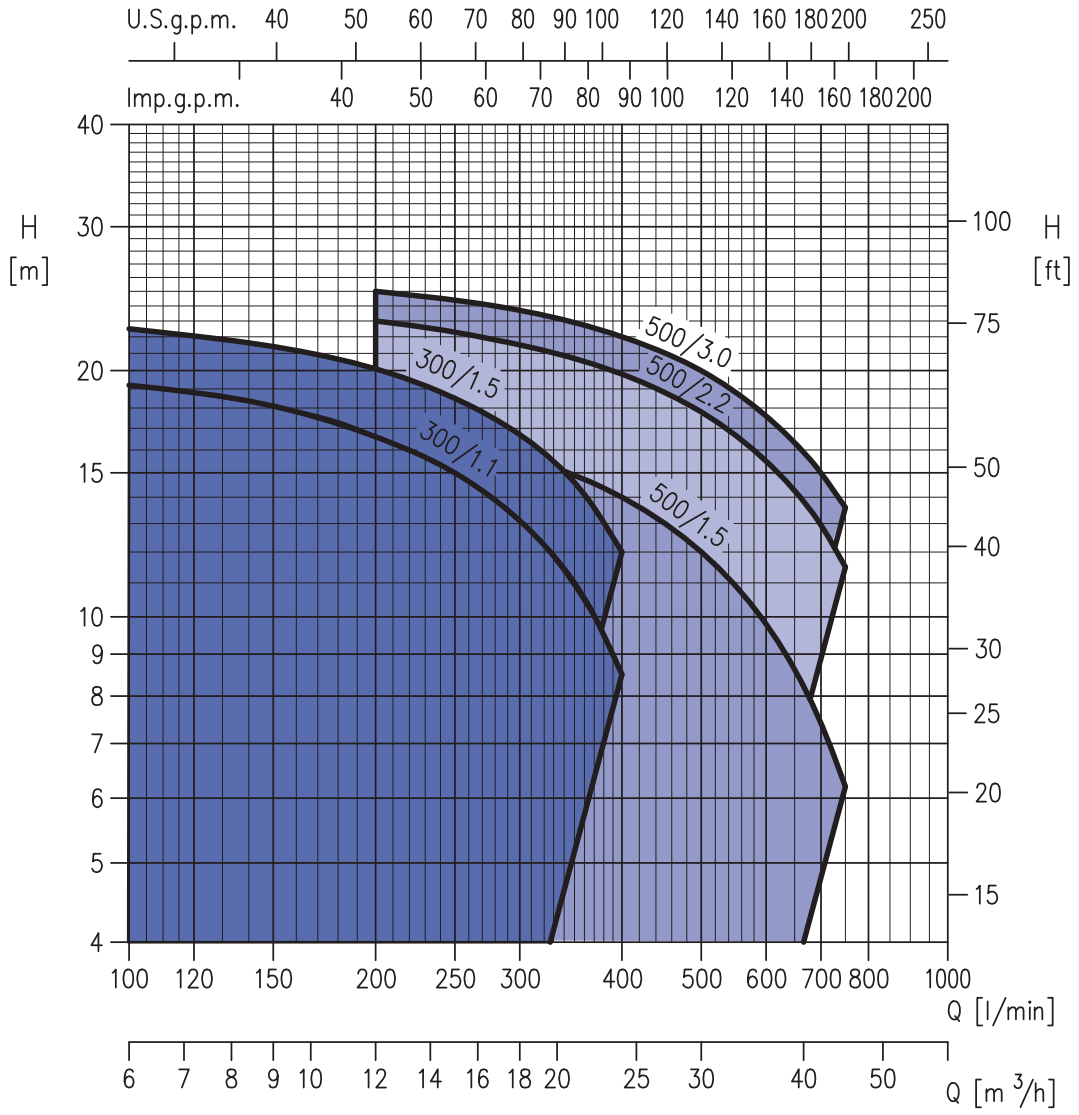
MATERIALS

- Pump body, casing cover, impeller and shaft in AISI 304
- Mechanical seal in Carbon/Ceramic/EPDM
- Special mechanical seal are available on demand
- Connections:
  Victaulic (DWC-V)
  Threaded (DWC-N)
- Standard Thermal insulation for the Victaulic version (DWC-V)

TECHNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP55
- 3~230/400V ± 10% 50Hz
- Suction: DWC-V Ø 2” (60,3 mm)
  DWC-N G2
- Discharge: DWC-V Ø 2” (60,3 mm)
  DWC-N G2

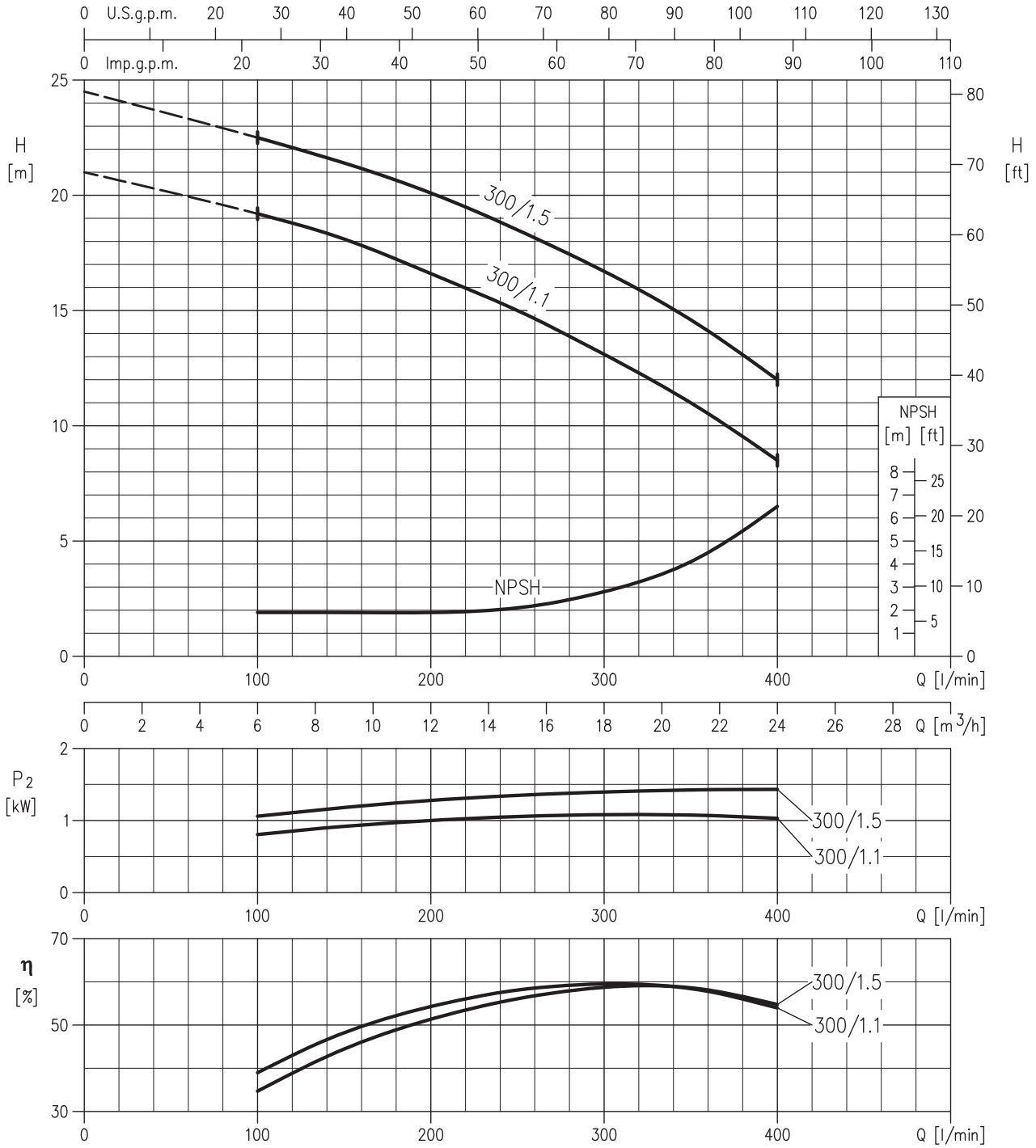
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



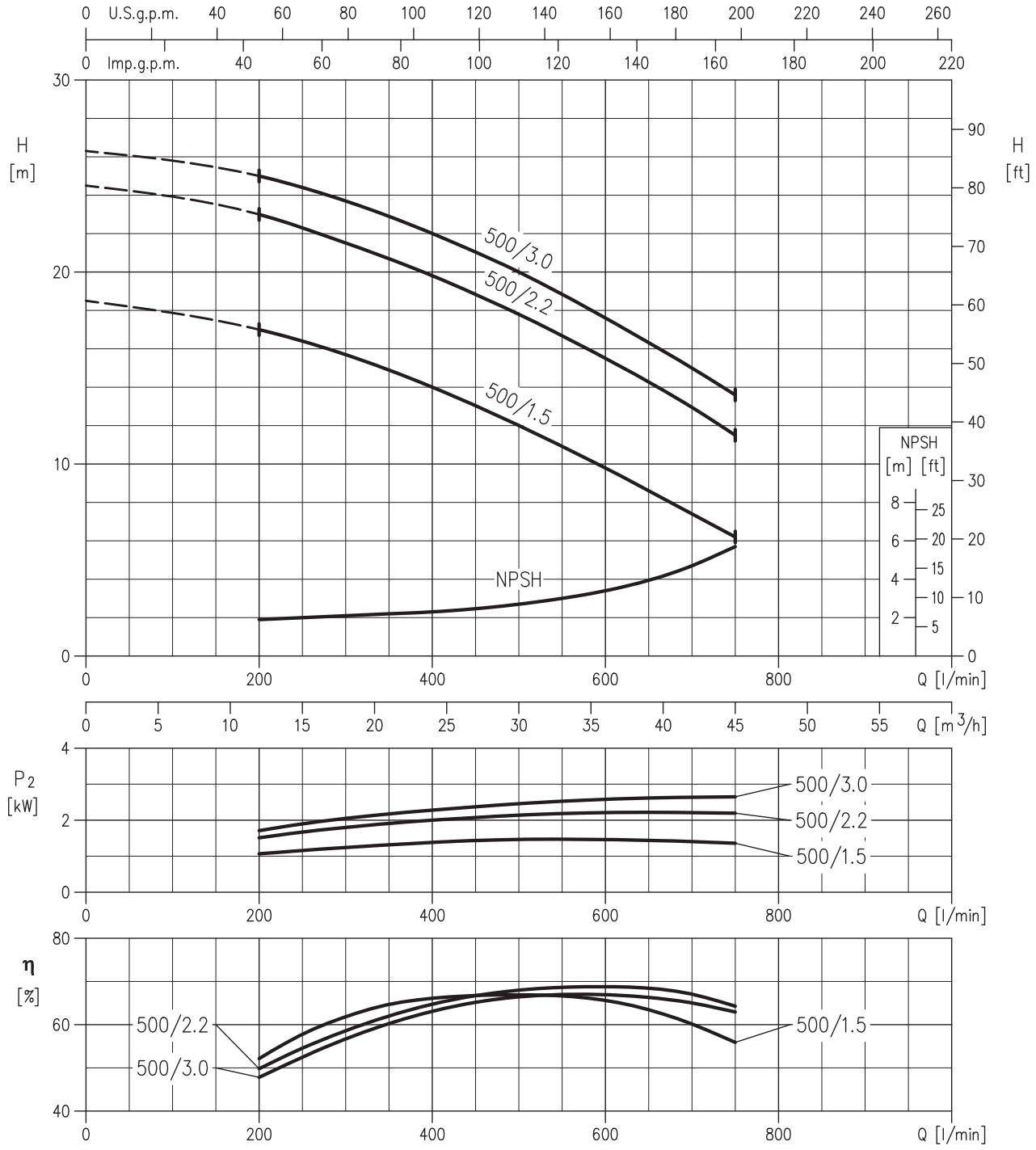
PERFORMANCE TABLE

Pump type	Power kW	Absorbed Current (A) Three-phase 230 V	Absorbed Current (A) Three-phase 400 V	l/min / m³/h	Q=Capacity H=Total head 0 / 0	100 / 6	150 / 9	200 / 12	250 / 15	300 / 18	350 / 21	400 / 24	500 / 30	600 / 36	700 / 42	750 / 45
DWC 300/1.1	1,1	4,3	2,5		21,0	19,2	18,1	16,6	15,0	13,1	11,0	8,5	-	-	-	-
DWC 300/1.5	1,5	5,5	3,2		24,5	22,5	21,4	20,1	18,5	16,7	14,6	12,0	-	-	-	-
DWC 500/1.5	1,5	5,9	3,4		18,5	-	-	17,0	16,4	15,7	14,9	14,0	12,0	9,8	7,4	6,2
DWC 500/2.2	2,2	8,3	4,8		24,5	-	-	23,0	22,3	21,5	20,7	19,8	17,8	15,5	13,0	11,5
DWC 500/3.0	3	9,7	5,6		26,3	-	-	25,0	24,4	23,7	22,9	22,0	20,0	17,6	15,0	13,6

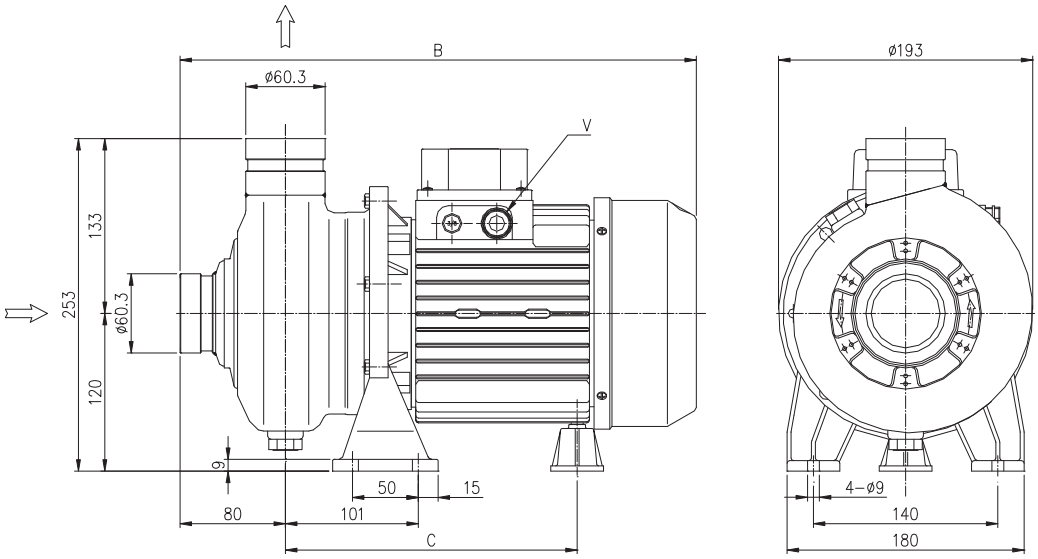
PERFORMANCE CURVES DWC 300 series *(according to ISO 9906 Annex A)*



PERFORMANCE CURVES DWC 500 series *(according to ISO 9906 Annex A)*



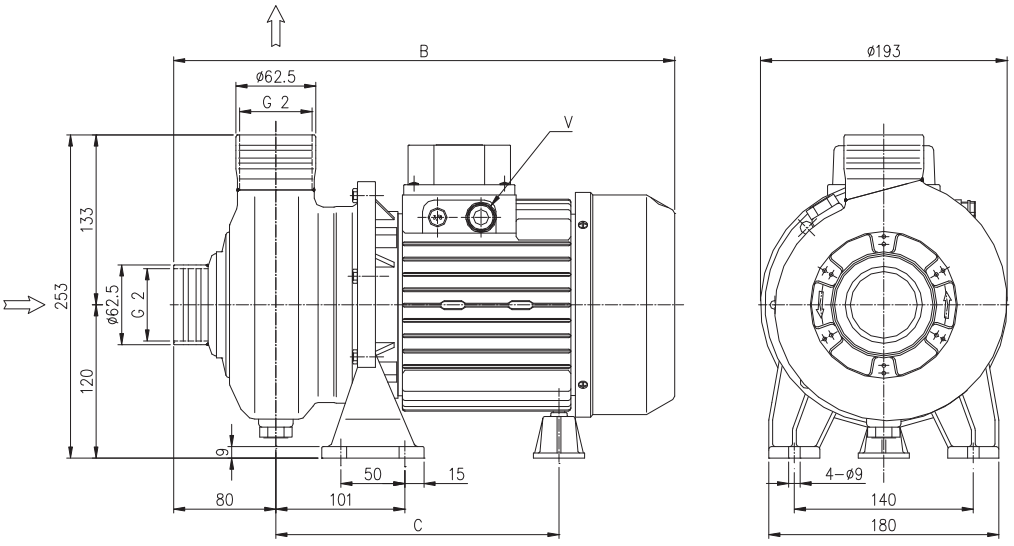
DWC-V (VICTAULIC CONNECTION)



DIMENSIONAL TABLE

Pump type	Dimensions (mm)			Weight
	B	C	V	(kg)
DWC-V 300/1.1	371,5	197,5	PG11	13,6
DWC-V 300/1.5	371,5	197,5	PG11	14,2
DWC-V 500/1.5	371,5	197,5	PG11	15
DWC-V 500/2.2	392	221,5	PG13,5	17,1
DWC-V 500/3.0	392	221,5	PG13,5	20

DWC-N (THREADED CONNECTION)



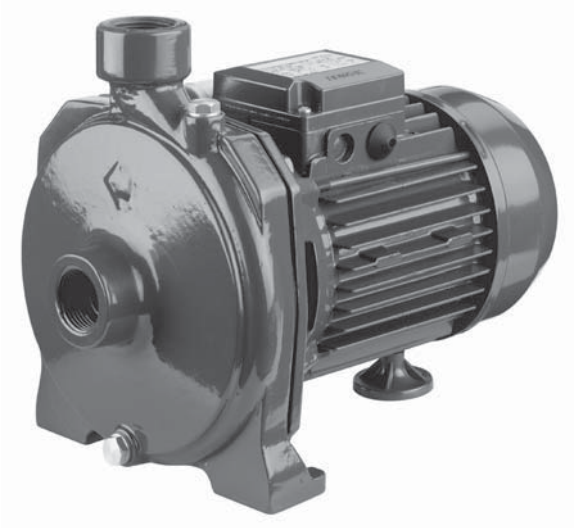
DIMENSIONAL TABLE

Pump type	Dimensions (mm)			Weight
	B	C	V	(kg)
DWC-N 300/1.1	371,5	197,5	PG11	13,6
DWC-N 300/1.5	371,5	197,5	PG11	14,2
DWC-N 500/1.5	371,5	197,5	PG11	15
DWC-N 500/2.2	392	221,5	PG13,5	17,1
DWC-N 500/3.0	392	221,5	PG13,5	20

CMA-B-C-D-CMR

CENTRIFUGAL PUMPS - SINGLE IMPELLER in cast iron

Single impeller centrifugal pumps manufactured in cast iron, suitable for pressure boosting, small-scale for irrigation, hamdling non-aggressive liquids for civil and industrial uses.
The CMR range features an open impeller.



SPECIFICATIONS

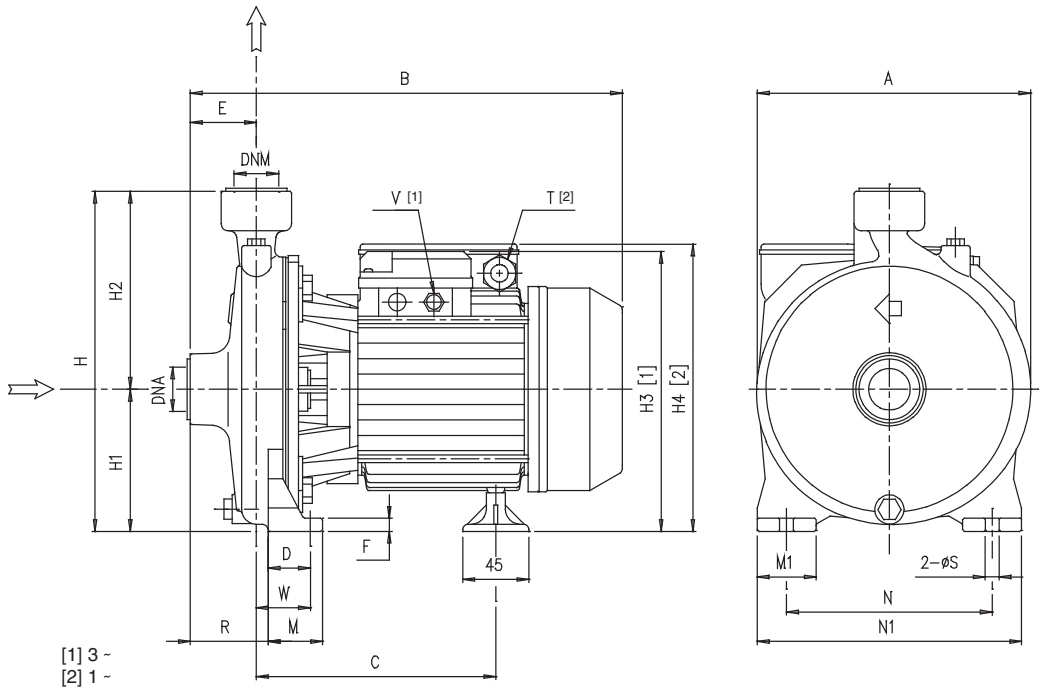
- Maximum working pressure: 6 bar for CMA up to 1.00,
  CMB up to 3.00,
  CMC, CMD and CMR
  8 bar for the other
- Maximum liquid temperature:
  40°C for CMA 0.50-0.75-0.80-1.00
  90°C for other models

MATERIALS

- Pump body in cast iron
- Mechanical seal in carbon/ceramic/NBR
- Impeller: - in tecnopolymer for CMA up to 1.00
  - in brass for CMA 1.50-2.00-3.00
    CMB 2.00-3.00-4.00-5.50
    CMR
  - in cast iron for CMB, CMC, CMD
- Shaft: - in AISI 416 for CMA 0.50 and CMR
  - in AISI 303 for other models
- Bracket: - in alluminium for CMA 0.50-0.75-0.80-1.00
    CMB 0.75-1.00
    CMC 0.75-1.00
    CMR
  - in cast iron for the other models

TECHNICAL DATA

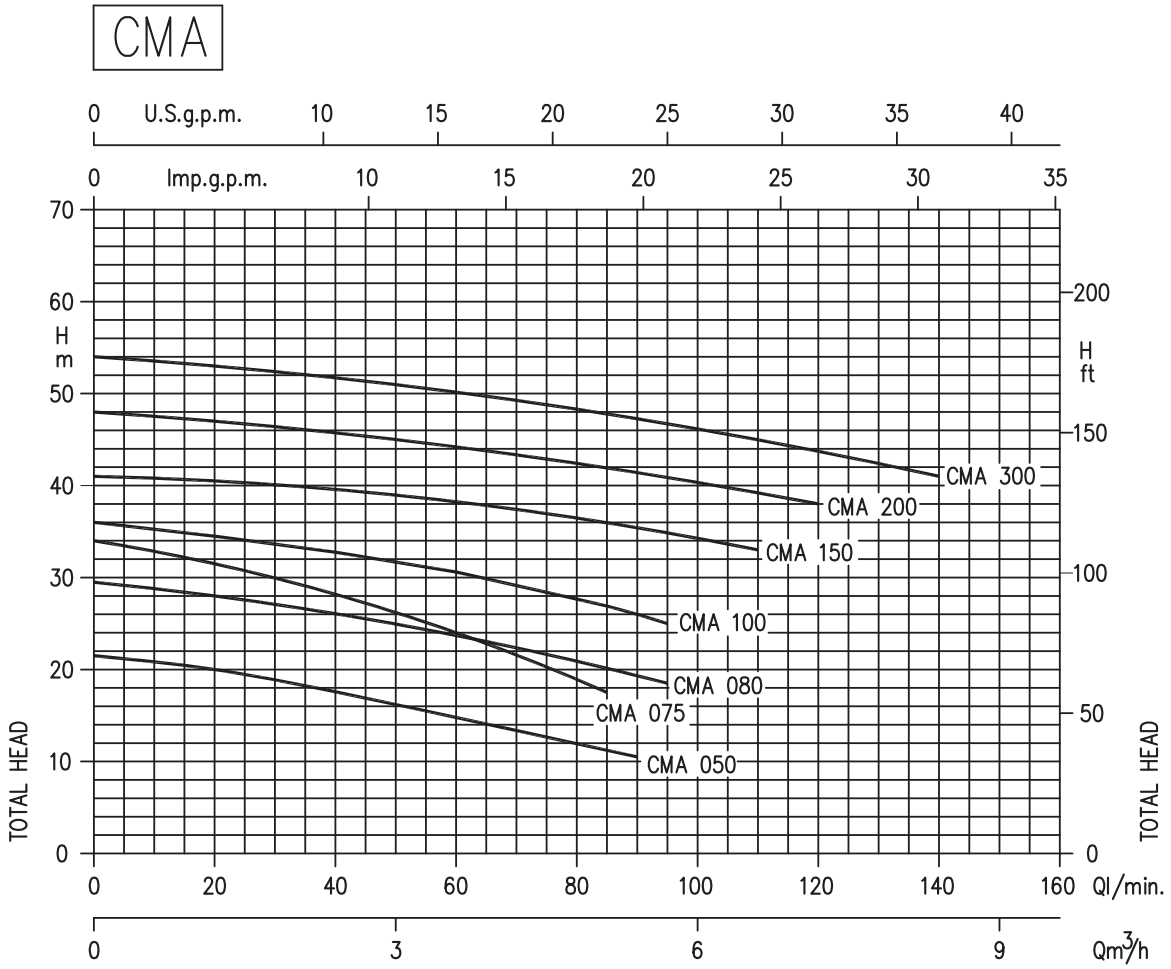
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 1” for CMA up to 1.00
  1”½ for CMR
  1”¼ for CMA 1.50 and over
  2” for CMB - CMC
  2”½ for CMD
- Discharge 1” for CMA
  1”½ for CMB
  1”¼ for CMB
  2” for CMC
  2”½ for CMD



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																						Weight (kg)
	A	B	C	D	E	F	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA	DNM	
CMA 0.50 M	160	261,8	158,8	30	44	8	202	82	120	-	173	40	40	110	150	44	PG11	-	30	9,5	G 1	G 1	
CMA 0.50 T	160	261,8	158,8	30	44	8	202	82	120	172,5	-	40	40	110	150	44	-	PG11	30	9,5	G 1	G 1	
CMA 0.75 M	185	300,3	171,8	36,8	45	9	232	97	135	-	198	45	40	140	180	45	PG11	-	36,8	9,5	G 1	G 1	
CMA 0.75 T	185	300,3	171,8	36,8	45	9	232	97	135	197,5	-	45	40	140	180	45	-	PG11	36,8	9,5	G 1	G 1	
CMA 0.80 M	185	300,3	171,8	36,8	45	9	232	97	135	-	198	45	40	140	180	45	PG11	-	36,8	9,5	G 1	G 1	
CMA 0.80 T	185	300,3	171,8	36,8	45	9	232	97	135	197,5	-	45	40	140	180	45	-	PG11	36,8	9,5	G 1	G 1	
CMA 1.00 M	185	300,3	171,8	36,8	45	9	232	97	135	-	198	45	40	140	180	45	PG11	-	36,8	9,5	G 1	G 1	
CMA 1.00 T	185	300,3	171,8	36,8	45	9	232	97	135	197,5	-	45	40	140	180	45	-	PG11	36,8	9,5	G 1	G 1	
CMA 1.50 M	200	347,3	208,3	41,8	45,5	9	252	100	152	-	232	50	40	155	194	45,5	PG13,5	-	41,8	9,5	G 1¼	G 1	
CMA 1.50 T	200	347,3	208,3	41,8	45,5	9	252	100	152	214	-	50	40	155	194	45,5	-	PG11	41,8	9,5	G 1¼	G 1	
CMA 2.00 M	225	360,3	208,3	41,8	45,5	9	285	115	170	-	247	50	40	180	220	45,5	PG13,5	-	41,8	9,5	G 1¼	G 1	
CMA 2.00 T	225	347,3	208,3	41,8	45,5	9	285	115	170	229	-	50	40	180	220	45,5	-	PG11	41,8	9,5	G 1¼	G 1	
CMA 3.00 T	225	360,3	208,3	41,8	45,5	9	285	115	170	229	-	50	40	180	220	45,5	-	PG11	41,8	9,5	G 1¼	G 1	
CMB 0.75 M	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	-	127,5	45	40	140	180	65,5	PG11	-	52,8	9,5	G 2	G 1¼	
CMA 0.75 T	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	127	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1¼	
CMB 1.00 M	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	-	127,5	45	40	140	180	65,5	PG11	-	52,8	9,5	G 2	G 1¼	
CMB 1.00 T	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	127	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1¼	
CMB 1.50 M	188	349,3	206,3	36,8	49,5	9	251,5	101,5	150	-	233,5	45	40	140	180	65,5	PG13,5	-	52,8	9,5	G 2	G 1¼	
CMB 1.50 T	188	349,3	206,3	36,8	49,5	9	251,5	101,5	150	215,5	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1¼	
CMB 2.00 M	200	373,3	209,3	36,8	57,5	9	271,5	111,5	160	-	243,5	45	40	160	200	76,5	PG13,5	-	55,8	9,5	G 2	G 1¼	
CMB 2.00 T	200	360,3	209,3	36,8	57,5	9	271,5	111,5	160	225,5	-	45	40	160	200	76,5	-	PG11	55,8	9,5	G 2	G 1¼	
CMB 3.00 T	200	373,3	209,3	36,8	57,5	9	271,5	111,5	160	225,5	-	45	40	160	200	76,5	-	PG11	55,8	9,5	G 2	G 1¼	
CMB 4.00 T	247	428,8	222,3	48	60	12	323,5	133,5	190	264,5	-	60	50	190	240	77,5	-	PG16	65,5	12	G 2	G 1¼	
CMB 5.50 T	247	428,8	222,3	48	60	12	323,5	133,5	190	264,5	-	60	50	190	240	77,5	-	PG16	65,5	12	G 2	G 1¼	
CMC 0.75 M	186	313,3	186,8	36,8	43	9	247	97	150	-	198	45	40	140	180	63,5	PG11	-	57,3	9,5	G 2	G 2	
CMC 0.75 T	186	313,3	186,8	36,8	43	9	247	97	150	197,5	-	45	40	140	180	63,5	-	PG11	57,3	9,5	G 2	G 2	
CMC 1.00 M	186	313,3	186,8	36,8	43	9	247	97	150	-	198	45	40	140	180	63,5	PG11	-	57,3	9,5	G 2	G 2	
CMC 1.00 T	186	313,3	186,8	36,8	43	9	247	97	150	197,5	-	45	40	140	180	63,5	-	PG11	57,3	9,5	G 2	G "	
CMD 1.50 M	213	384,3	222,8	36,8	68	12	271,5	111,5	160	-	243,5	45	40	160	200	100,5	PG13,5	-	69,3	9,5	G 1½	G 1½	
CMD 1.50 T	213	384,3	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 1½	G 1½	
CMD 2.00 M	213	397,3	222,8	36,8	68	12	271,5	111,5	160	-	243,5	45	40	160	200	100,5	PG13,5	-	69,3	9,5	G 1½	G 1½	
CMD 2.00 T	213	384,3	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 1½	G 1½	
CMD 3.00 T	213	397,3	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 1½	G 1½	
CMD 4.00 T	213	449,3	234,8	36,8	68	12	271,5	111,5	160	354	-	45	50	160	200	100,5	-	PG16	69,3	9,5	G 1½	G 1½	
CMR 0.75	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1½	G 1½	
CMR 1.00	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1½	G 1½	

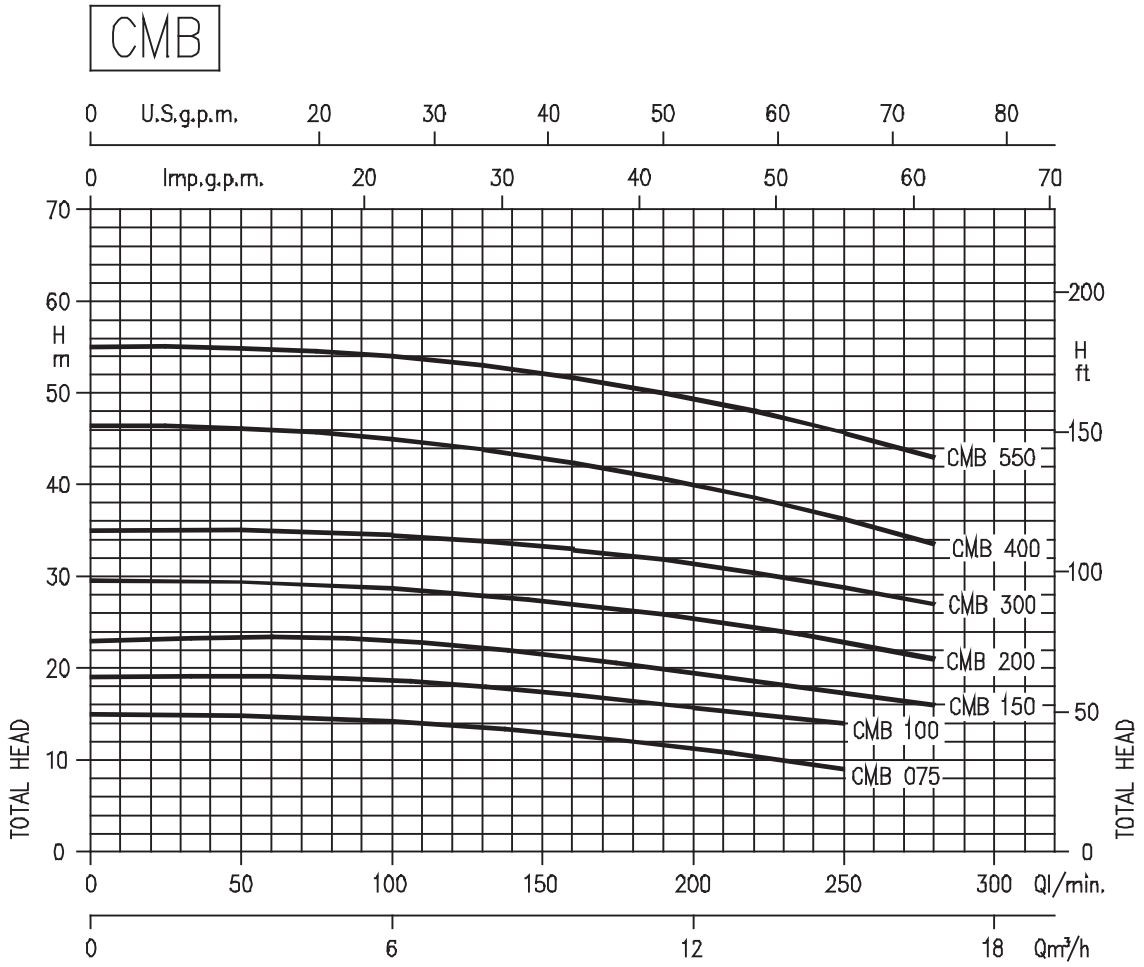
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity										
Single-phase 230V 50Hz	Single-phase 230V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	20	40	60	80	85	90	95	100	110	120	140
									1,2	2,4	3,6	4,8	5,1	5,4	5,7	6	6,6	7,2	8,4
									H=Total head										
CMA 0.50 M	CMA 0.50 T	0,37	10	450	3,2	2,4	1,4		20	17,8	15	12,1	11,2	10,5	-	-	-	-	-
CMA 0.75 M	CMA 0.75 T	0,55	16	450	4,7	3,2	1,8		31,5	28,2	24	18,9	17,5	-	-	-	-	-	-
CMA 0.80 M	CMA 0.80 T	0,6	16	450	4,8	3,3	1,9		28	26,1	23,8	20,9	20,1	19,3	18,5	-	-	-	-
CMA 1.00 M	CMA 1.00 T	0,75	20	450	6,2	4,3	2,5		34,5	32,8	30,6	27,7	26,9	26	25	-	-	-	-
CMA 1.50 M	CMA 1.50 T	1,1	35	450	9,2	5,7	3,3		40,5	39,6	38,2	36,5	36	35,6	34,9	34,3	33	-	-
CMA 2.00 M	CMA 2.00 T	1,5	40	450	10,8	7,8	4,5		47	45,8	44,2	42,4	41,9	41,4	40,9	40,3	39,2	38	-
-	CMA 3.00 T	2,2	-	-	-	9,9	5,7		53	51,8	50,2	48,3	47,8	47,3	46,7	46,2	45	43,7	41

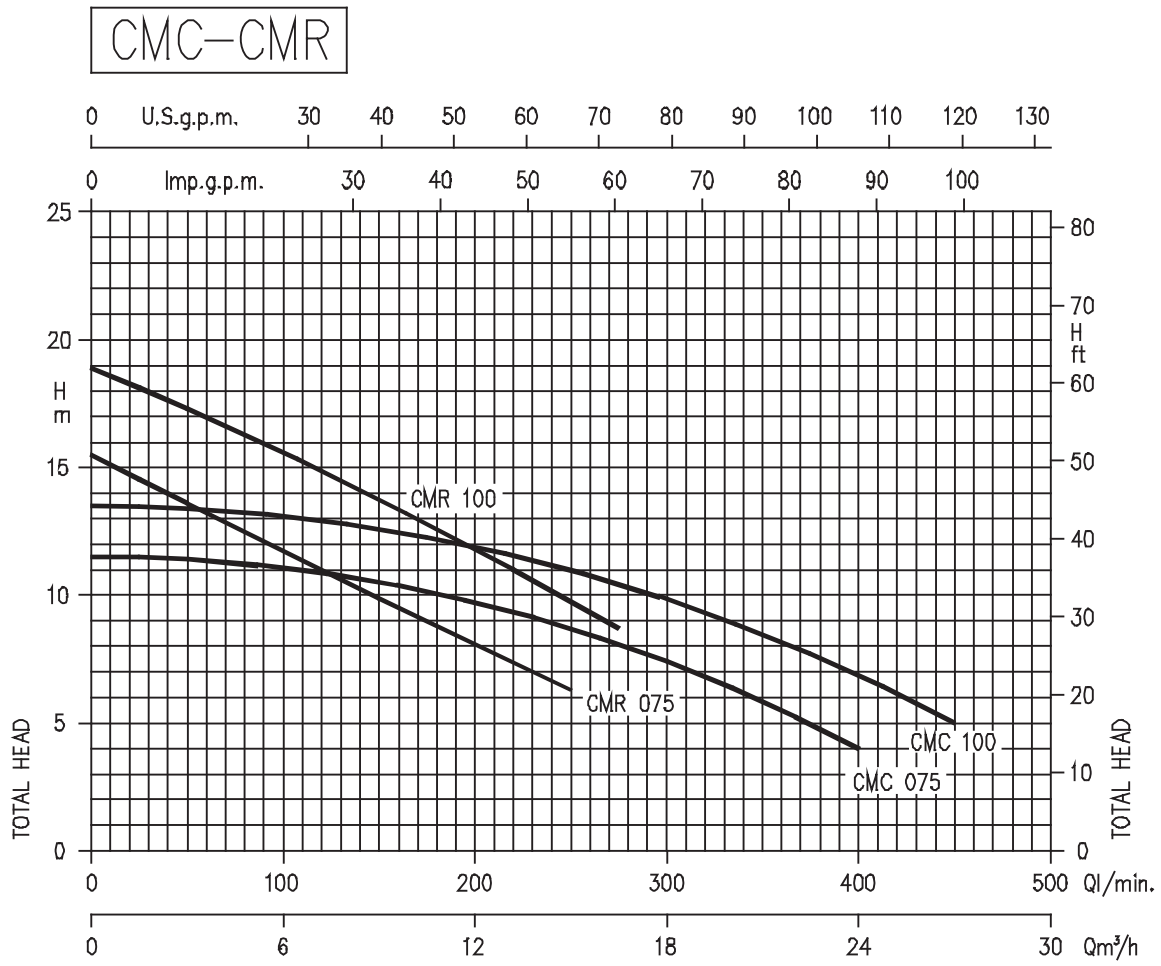
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	100	140	180	220	250	280
									6	8,4	10,8	13,2	15	16,9
									H=Total head					
CMB 0.75 M	CMB 0.75 T	0,55	14	450	4,5	3,0	1,7		14,2	13,3	12	10,4	9	-
CMB 1.00 M	CMB 1.00 T	0,75	20	450	6,0	4	2,3		18,4	17,4	16,1	15,2	14	-
CMB 1.50 M	CMB 1.50 T	1,1	31,5	450	8,5	5,5	3,2		22,4	21,1	19,8	18	17,1	16
CMB 2.00 M	CMB 2.00 T	1,5	40	450	10,8	7,5	4,3		28,7	27,7	26,3	24,5	22,8	21
-	CMB 3.00 T	2,2	-	-	-	8,3	4,8		34,5	33,7	32,1	30,3	28,8	27
-	CMB 4.00 T	3,0	-	-	-	12,5	7,2		45	43,4	41,5	38,4	36,2	33,5
-	CMB 5.50 T	4,0	-	-	-	16,3	9,4		54	52,3	50,4	48,1	45,7	43

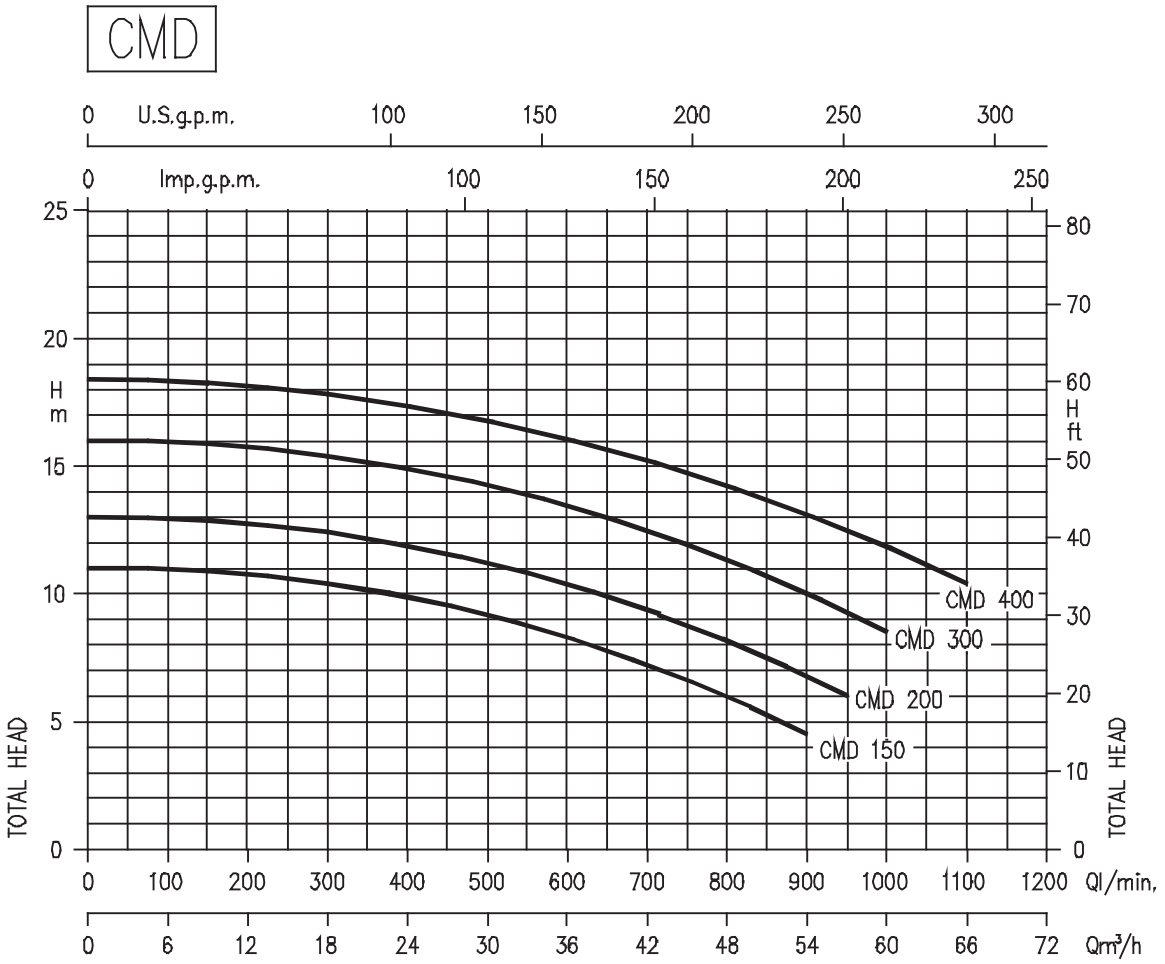
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Corrente as. (A)			l/min	Q=Capacity								
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	50	100	150	200	250	275	350	400	450
									3	6	9	12	15	16,5	21	24	27
									H=Total head								
CMC 0.75 M	CMC 0.75 T	0,55	14	450	4,2	2,8	1,6		11,4		10,6		8,8		5,9	4	-
CMC 1.00 M	CMC 1.00 T	0,75	20	450	5,3	3,5	2,0		13,4		12,6		11		8,6	6,8	5
CMR 0.75 M	CMR 0.75 T	0,55	14	450	4,5	3	1,7		13,6	11,4		8,1	6,3	-			
CMR 1.00 M	CMR 1.00 T	0,75	20	450	5,5	3,6	2,1		17,3	15,4		11,5	9,6	8,7			

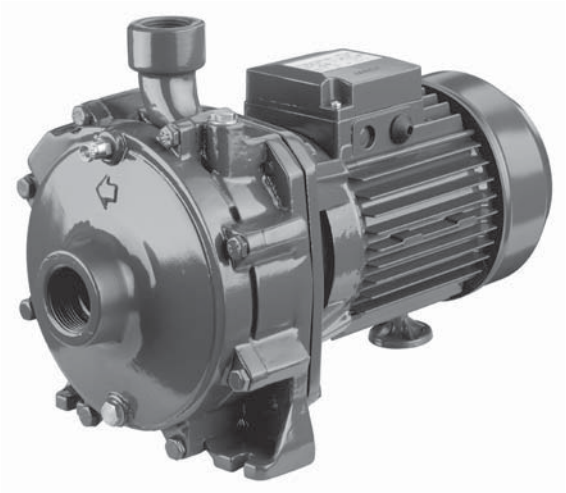
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V	Three-phase 400V	m³/h	300 / 18	400 / 24	600 / 36	800 / 48	900 / 54	950 / 57	1000 / 60	1100 / 66
									H=Total head							
CMD 1.50 M	CMD 1.50 T	1,1	31,5	450	8,9	5,9	3,4		10,4	9,9	8,4	6	4,5	-	-	-
CMD 2.00 M	CMD 2.00 T	1,5	40	450	10,8	7,5	4,3		12,4	11,9	10,5	8,3	6,8	6	-	-
-	CMD 3.00 T	2,2	-	-	-	9,0	5,2		15,4	14,9	13,5	11,4	10	9,3	8,5	-
-	CMD 4.00 T	3,0	-	-	-	12,3	7,1		17,8	17,3	16,1	14,2	13,1	12,5	11,8	10,4

Twin impeller centrifugal pumps with hydraulic parts manufactured in cast iron, suitable for irrigation and handling of non-aggressive liquids for civil and industrial uses.



SPECIFICATIONS

- Maximum working pressure: 6 bar for CDA 0.75-1.00
  10 bar for other models
- Maximum liquid temperature:
  40°C for CDA 0.75-1.00
  90°C for other models

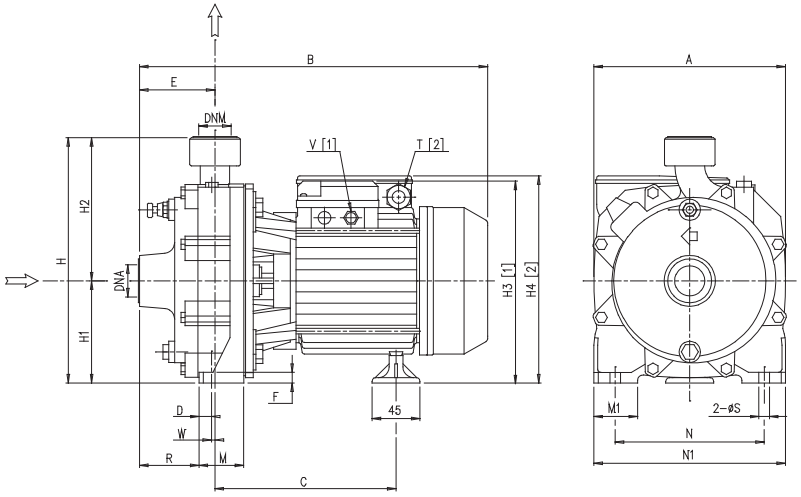
MATERIALS

- Pump body in cast iron
- Mechanical seal in carbon/ceramic/NBR
- Impeller: - in tecnopolymer for CDA 0.75-1.00
  - in brass for the other models
- Shaft: - in AISI 303 for CDA 1.50-2.00-3.00
  - in AISI 304 for CDA 4.00-5.50
  - in AISI 416 for the other models
- Bracket: - in alluminium for CDA 0.75-1.00
  - in cast iron for the other models
- Casing cover: - in AISI 304 for CDA 0.75-1.00
  - in cast iron for the other models

TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version

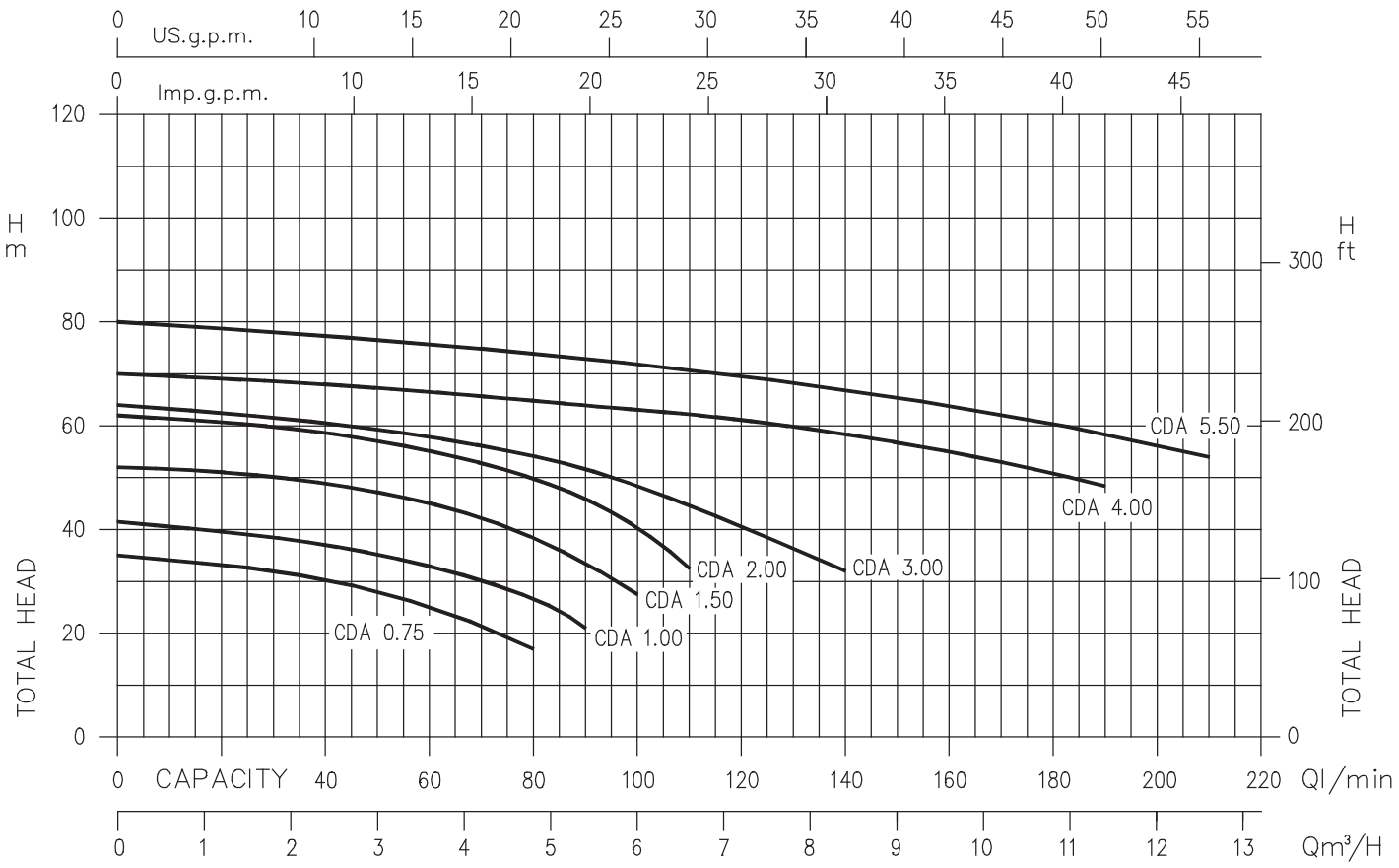
[1] 3 ~
[2] 1 ~



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																						Weight
	A	B	C	D	E	F	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA	DNM	(kg)
CDA 0.75 M	183	336,3	179,8	8,3	73	9	227	97	130	-	198	42	40	140	180	57,5	PG11	-	6,8	9,5	G 1	G 1	13,5
CDA 0.75 T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	-	42	40	140	180	57,5	-	PG11	6,8	9,5	G 1	G 1	13,5
CDA 1.00 M	183	336,3	179,8	8,3	73	9	227	97	130	-	198	42	40	140	180	57,5	PG11	-	6,8	9,5	G 1	G 1	15
CDA 1.00 T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	-	42	40	140	180	57,5	-	PG11	6,8	9,5	G 1	G 1	15
CDA 1.50 M	209	394,8	218,3	8,3	86	9	265	110	155	-	242	48	40	155	195	65,5	PG13,5	-	12,3	9,5	G 1¼	G 1	25
CDA 1.50 T	194	394,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1¼	G 1	25
CDA 2.00 M	209	410,8	218,3	8,3	86	9	265	110	155	-	242	48	40	155	195	65,5	PG13,5	-	12,3	9,5	G 1¼	G 1	27
CDA 2.00 T	194	394,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1¼	G 1	27
CDA 3.00 T	194	410,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1¼	G 1	27
CDA 4.00 T	228	467,3	225,3	12	95,5	12	308,5	133,5	175	264,5	-	57	50	180	230	71,5	-	G 1½	12,0	12	G 1½	G 1¼	42,5
CDA 5.50 T	228	467,3	225,3	12	95,5	12	308,5	133,5	175	264,5	-	57	50	180	230	71,5	-	G 1½	12,0	12	G 1½	G 1¼	46,3

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



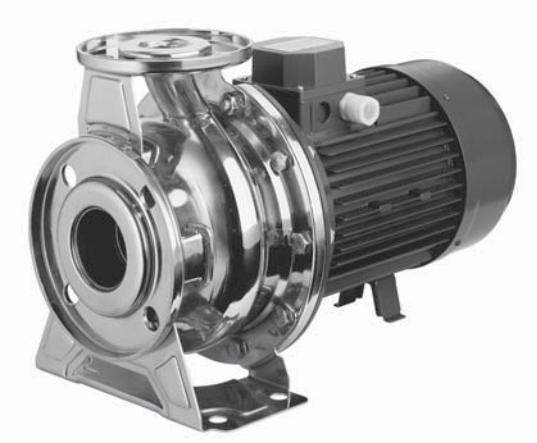
PERFORMANCE TABLE

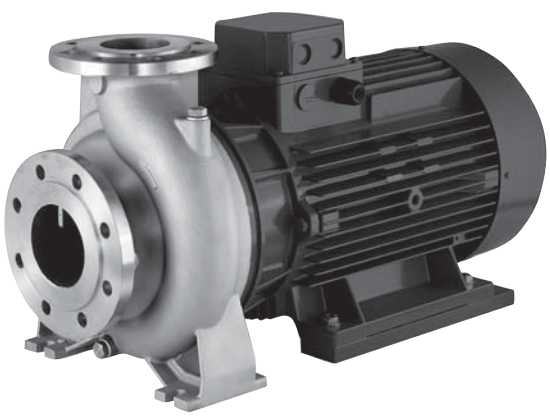
Pump type Single-phase 230V 50Hz	Pump type Three-phase 230/400V 50Hz	kW	Capacitor µF	Capacitor Vc	Absorbed Current (A) Single-phase	Absorbed Current (A) Three-phase 230V	Absorbed Current (A) Three-phase 400V	l/min	Q=Capacity 20	40	50	80	90	100	110	140	170	190	210
								m³/h	1,2	2,4	3	4,8	5,4	6	6,6	8,4	10,2	11,4	12,6
									H=Total head										
CDA 0.75 M	CDA 0.75 T	0,55	16	450	5,0	3,4	2,0		33	30,2	27,9	17	-	-	-	-	-	-	-
CDA 1.00 M	CDA 1.00 T	0,75	20	450	6,1	4,0	2,3		39,5	37	35,2	27	21	-	-	-	-	-	-
CDA 1.50 M	CDA 1.50 T	1,1	35	450	8,6	5,6	3,3		50,8	48,8	47,1	38,4	33,4	27,5	-	-	-	-	-
CDA 2.00 M	CDA 2.00 T	1,5	40	450	10,8	7,2	4,1		60,5	58,6	56,9	49,8	46,5	40,3	32,5	-	-	-	-
-	CDA 3.00 T	2,2	-	-	-	8,8	5,1		-	60,5	59,3	54,1	51,6	48,4	44,6	32	-	-	-
-	CDA 4.00 T	3,0	-	-	-	13,0	7,5		-	-	67	64,8	63,9	62,5	62	58	53,5	48	-
-	CDA 5.50 T	4,0	-	-	-	16,5	9,5		-	-	76,5	73,9	72,9	71,8	70,5	66,8	62	58,3	54

3-3L SERIES

CENTRIFUGAL PUMPS according EN 733 (ex DIN 24255) STANDARD

*End suction centrifugal pumps in accordance with EN 733 (ex DIN 24255) made of stainless steel **AISI 304** (3 series) and **AISI 316L** (3L series), applications include water boosting, heating systems, air-conditioning, washing systems and many other industrial applications.*
WRAS approved pumps are available upon request.





SPECIFICATIONS

- Maximum working pressure: 10 bar
- Liquid temperature: from –10°C to +110°C
- 110° C for H version

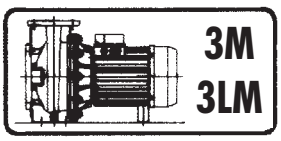
MATERIALS

- Pump body, impeller, casing cover and shaft in AISI 304 (3 series), in AISI 316L (3L series)
- Mechanical seal in carbon/ceramic/NBR for standard version
- Mechanical seal (3 series),
- Mechanical seal in SiC/SiC/FPM (3L series - 3L80 series HS version)
- Mechanical seal in carbon/ceramic/Viton for H version and 3L80 H version
- Mechanical seal in SiC/Carbon/FPM for 3L80 E version

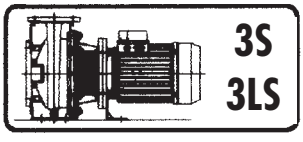
TECHNICAL DATA

- Asincronous 2 and 4 poles motor
- Insulation class F
- Protection degree IP55
- 1~230±10%
- 3~230/400V ± 10% 50Hz up to 4kW included, 400/690V ±10% above
- Thermal protection to be provided by the user

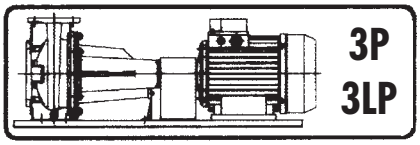
Available in 4 different versions, 2 and 4 poles



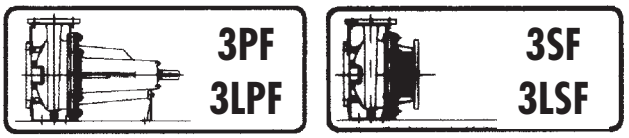
monobloc with extended motor shaft



monobloc with standard motor and flexible coupling

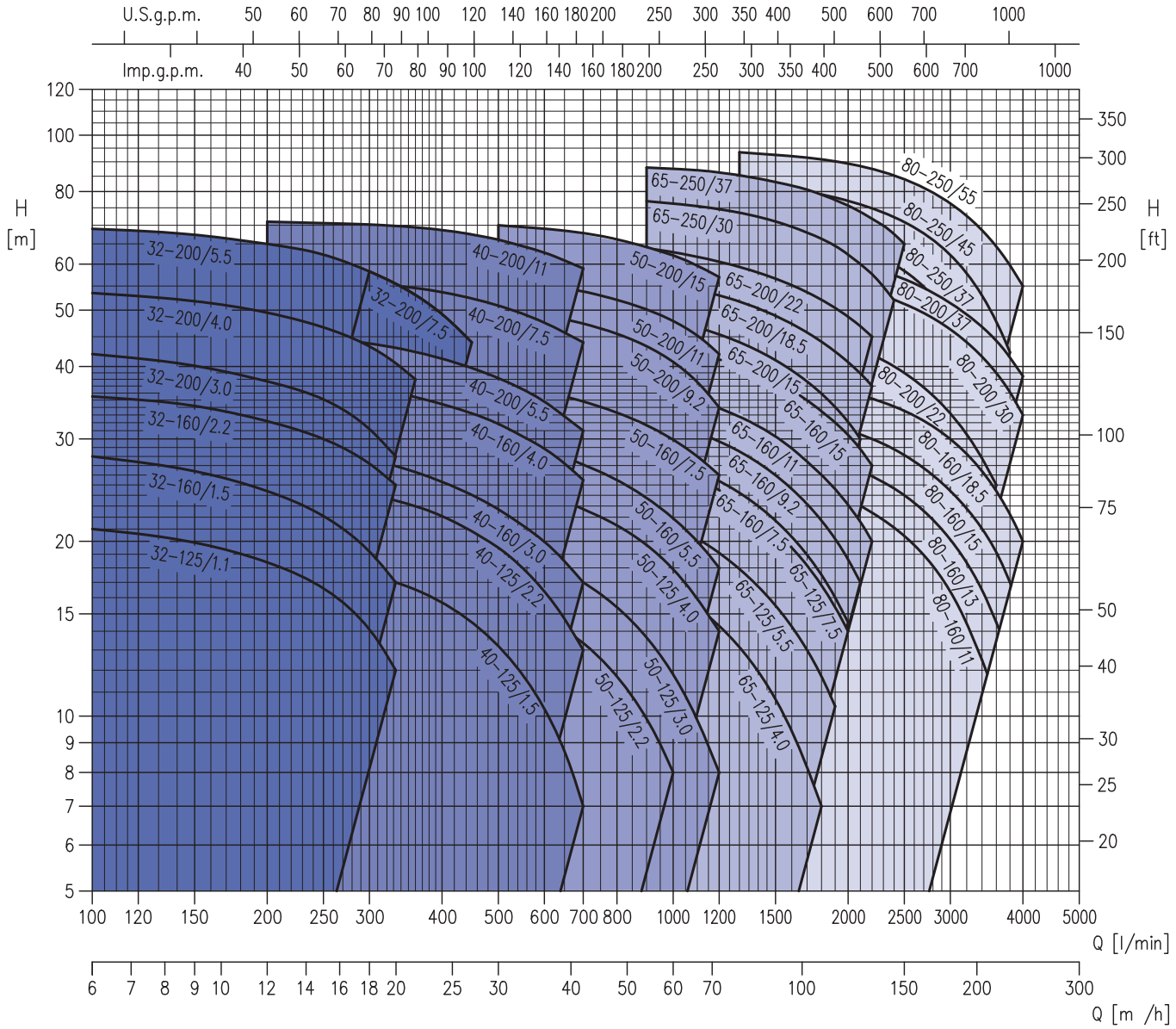


on basement with standard motor and flexible coupling



bareshaft pump

PERFORMANCE CHART at 2900 min^{-1} *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE 32-40-50-65

2 Poles

Pump type	kW	HP	Absorbed Current (A) Three-phase			l/min	Q=Capacity																		
			230V	400V	690V	m³/h	0	100	150	200	300	333	360	400	450	500	600	700	800	1000	1200	1500	1800	1900	2000	2100	2200
							0	6	9	12	18	20	22	24	27	30	36	42	48	60	72	90	108	114	120	126	132
							H=Total head																		
32-125/1.1 (M)	1,1	-	5,0	2,9	-		22,5	21	19,9	18,4	14,1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-160/1.5 (M)	1,5	-	5,9	3,4	-		29,5	28	26,5	24,5	19,2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-160/2.2 (M)	2,2	-	8,3	4,8	-		37	35,5	34	32	27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/3.0	3,0	-	11,8	6,8	-		44	42	40	37,5	31	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/4.0	4,0	-	15,6	9,0	-		55	53,5	52	49,5	43,5	40,5	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/5.5	5,5	-	-	11,8	6,8		70,5	69	67,5	65	58,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/7.5	7,5	10	-	-	-		70,5	69	67,5	65	58,3	55,5	53	49	44	-	-	-	-	-	-	-	-	-	-	-	-
40-125/1.5 (M)	1,5	-	5,9	3,4	-		20	-	-	19	17,6	17	16,5	15,7	14,5	13,2	10,3	7	-	-	-	-	-	-	-	-	-
40-125/2.2 (M)	2,2	-	8,3	4,8	-		26,5	-	-	25,5	24	23,5	23	22	21	19,5	16,4	13	-	-	-	-	-	-	-	-	-
40-160/3.0	3,0	-	11,8	6,8	-		31	-	-	29,5	27,5	27	26,5	25,5	24	22,5	20	17	-	-	-	-	-	-	-	-	-
40-160/4.0	4,0	-	15,9	9,2	-		40	-	-	38,5	37	36	35,5	34,5	33	32	29	25,5	-	-	-	-	-	-	-	-	-
40-200/5.5	5,5	-	-	11,1	6,4		47	-	-	45,5	44	43	42,5	41	39,5	38	35	31	-	-	-	-	-	-	-	-	-
40-200/7.5	7,5	-	-	15,1	8,7		58	-	-	57	55,5	55	54,5	53,5	52,5	51	47,5	44	-	-	-	-	-	-	-	-	-
40-200/11	11	-	-	20,0	11,6		72	-	-	71	70	70	69,5	68,5	67,5	66	63	59	-	-	-	-	-	-	-	-	-
50-125/2.2 (M)	2,2	-	8,3	4,8	-		19	-	-	-	-	-	-	17,5	17	16,3	14,9	13,4	11,7	8	-	-	-	-	-	-	-
50-125/3.0	3,0	-	11,8	6,8	-		22	-	-	-	-	-	-	20,5	20	19,6	18,4	17	15,4	11,8	8	-	-	-	-	-	-
50-125/4.0	4,0	-	15,9	9,2	-		26,5	-	-	-	-	-	-	26	25,5	25	24	22,5	21,5	17,9	14	-	-	-	-	-	-
50-160/5.5	5,5	-	-	11,5	6,6		33	-	-	-	-	-	-	31	30,5	30	28,5	27	25,5	22	18	-	-	-	-	-	-
50-160/7.5	7,5	-	-	15,5	9,0		40	-	-	-	-	-	-	38,5	38	37,5	36	35	33,5	30	26	-	-	-	-	-	-
50-200/9.2	9,2	-	-	17,4	10,0		53	-	-	-	-	-	-	-	-	50	49	47,5	45,5	40,5	34	-	-	-	-	-	-
50-200/11	11	-	-	22,0	12,7		59	-	-	-	-	-	-	-	-	56	55	54	52	48	42	-	-	-	-	-	-
50-200/15	15	-	-	31,3	18,0		72	-	-	-	-	-	-	-	-	70	69	68	66	62	57	-	-	-	-	-	-
65-125/4.0	4	5.5	-	-	-		22,5	-	-	-	-	-	-	-	-	-	20	19,4	18,5	16,5	14,3	10,7	7	-	-	-	-
65-125/5.5	5.5	7.5	-	-	-		27	-	-	-	-	-	-	-	-	-	25	24,5	23,5	21,5	19,1	15,5	11,7	10,4	-	-	-
65-125/7.5	7.5	10	-	-	-		32	-	-	-	-	-	-	-	-	-	30,5	29,5	29	27	24,5	21	16,8	15,4	14	-	-
65-160/7.5	7.5	10	-	-	-		32	-	-	-	-	-	-	-	-	-	-	30	29	27	25,5	21,5	17,5	16	14,5	-	-
65-160/9.2	9.2	12.5	-	-	-		36,5	-	-	-	-	-	-	-	-	-	-	34,5	34	32	29,5	26	21,5	20	18,6	17	-
65-160/11	11	15	-	-	-		40,5	-	-	-	-	-	-	-	-	-	-	38,5	38	36	34	30,5	26	24,5	23	21,5	20
65-160/15	15	20	-	-	-		48	-	-	-	-	-	-	-	-	-	-	45,5	45	43	41	37,5	33,5	32	30,5	29	27
65-200/15	15	20	-	-	-		54	-	-	-	-	-	-	-	-	-	-	51	50	48	45,5	41	36	34	32	30	-
65-200/18.5	18.5	25	-	-	-		60,5	-	-	-	-	-	-	-	-	-	-	58,5	57,5	55,5	53	49	44	42,5	40,5	39	37
65-200/22	22	30	-	-	-		67	-	-	-	-	-	-	-	-	-	-	65,5	65	63	60,5	56,5	52	50,5	48,5	47	45

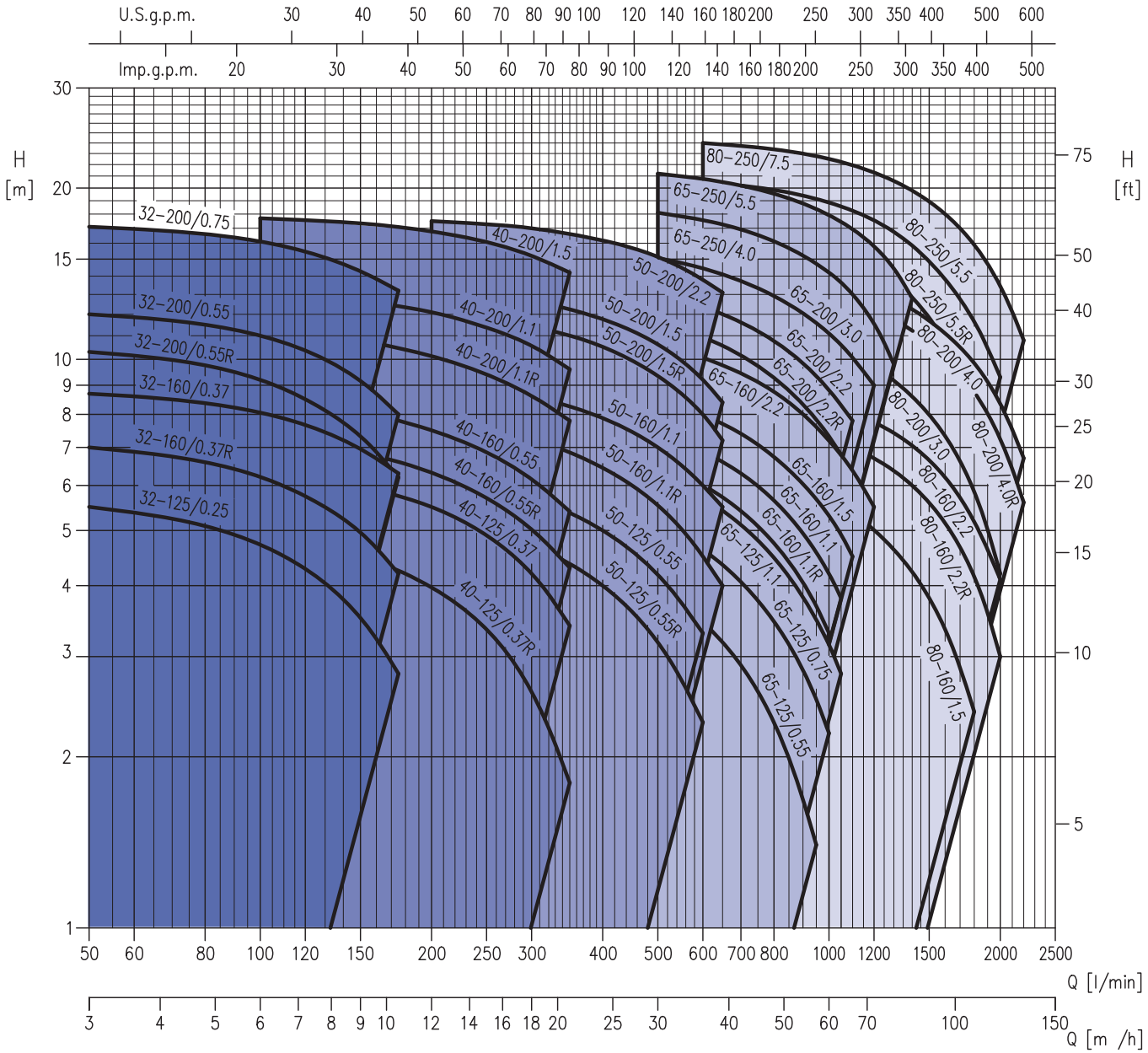
(M) Single-phase

PERFORMANCE TABLE 80

2 Poles

Pump type	kW	HP	Absorbed Current (A) Three-phase		l/min	Q=Capacity								
			400V	690V	m³/h	0	1300	1800	2200	2600	3000	3400	3600	3800	4000
						0	78	108	132	156	180	204	216	228	240
						H=Total head									
3M80-160/11	11	15	21	12,1		29	27,3	24,8	22,4	19,7	16,4	12,5	-	-	-
3S80-160/11	11	15	20,9	12,1		29	27,3	24,8	22,4	19,7	16,4	12,5	-	-	-
3P80-160/11	11	15	20,9	12,1		29	27,3	24,8	22,4	19,7	16,4	12,5	-	-	-
3M80-160/13	13	17,5	25,3	14,6		32	30,5	28,3	25,9	23,3	20,1	16,5	14,5	-	-
3S80-160/15R	15	20	24,3	14		32	30,5	28,3	25,9	23,3	20,1	16,5	14,5	-	-
3P80-160/15R	15	20	24,3	14		32	30,5	28,3	25,9	23,3	20,1	16,5	14,5	-	-
3M80-160/15	15	20	29,8	17,2		35	34	32	30	27,5	24,4	21	19,1	17	-
3S80/160/15	15	20	28,3	16,3		35	34	32	30	27,5	24,4	21	19,1	17	-
3P80-160/15	15	20	28,3	16,3		35	34	32	30	27,5	24,4	21	19,1	17	-
3M80-160/18.5	18,5	25	37,8	21,8		40	39	37,2	35,2	32,9	30	26,4	24,4	22,3	20
3S80-160/18.5	18,5	25	34,1	18,7		40	39	37,2	35,2	32,9	30	26,4	24,4	22,3	20
3P80-160/18.5	18,5	25	34,1	19,7		40	39	37,2	35,2	32,9	30	26,4	24,4	22,3	20
3S80-220/22	22	30	38,6	22,3		50	48	45	42	37,9	33,2	27,8	25	-	-
3P80-200/22	22	30	38,6	22,3		50	48	45	42	37,9	33,2	27,8	25	-	-
3S80-220/30	30	40	53,9	31,1		60	58,5	56,5	54	50,5	46,5	41,5	39	36,1	33
3P80-220/30	30	40	53,9	31,1		60	58,5	56,5	54	50,5	46,5	41,5	39	36,1	33
3S80-200/37	37	50	62,6	36,1		66	64	61,5	59	55,5	51,5	47	44,5	41,5	38,5
3P80-200/37	37	50	62,6	36,1		66	64	61,5	59	55,5	51,5	47	44,5	41,5	38,5
3S80-250/37	37	50	64,1	37		73	71,5	67,5	63	56,5	48,5	38	-	-	-
3P80-250/37	37	50	64,1	37		73	71,5	67,5	63	56,5	48,5	38	-	-	-
3S80-250/45	45	60	79,2	45,7		84	82,5	79	75	69,5	62	53	48	42,3	-
3P80-250/45	45	60	79,2	45,7		84	82,5	79	75	69,5	62	53	48	42,3	-
3S80-250/55	55	75	98,1	56,6		95	93,5	91	87,5	82,5	76,5	68,5	64,5	60	55
3P80-250/50	55	75	98,1	56,6		95	93,5	91	87,5	82,5	76,5	68,5	64,5	60	55

PERFORMANCE CHART at 1450 min^{-1} *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE 32-40-50-65

4 Poles

Pump Type	kW	HP	Q= Capacity																	
			l/min	50	100	160	200	250	300	350	400	500	600	650	800	950	1000	1050	1100	1200
			m³/h	3	6	9,6	12	15	18	21	24	30	36	39	48	57	60	63	66	72
			H= Total head																	
32-125/0.25	0,25	0,33	5,6	4,9	3,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-160/0.37R	0,37	0,5	7,2	6,3	4,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-160/0.37	0,37	0,5	8,7	8	6,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/0.55R	0,55	0,75	10,5	9,3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/0.55	0,55	0,75	12	11	9,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32-200/0.75	0,75	1	17,3	16,5	14,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40-125/0.37R	0,37	0,5	-	4,5	4	3,6	3	2,3	1,5	-	-	-	-	-	-	-	-	-	-	-
40-125/0.37	0,37	0,5	-	6,2	5,7	5,2	4,6	3,8	3	-	-	-	-	-	-	-	-	-	-	-
40-160/0.55R	0,55	0,75	-	7,2	6,7	6,3	5,7	5	4,3	-	-	-	-	-	-	-	-	-	-	-
40-160/0.55	0,55	0,75	-	8,5	7,9	7,5	6,9	6,2	5,4	-	-	-	-	-	-	-	-	-	-	-
40-200/1.1R	1,1	1,5	-	11	10,5	10,1	9,6	9	8,3	-	-	-	-	-	-	-	-	-	-	-
40-200/1.1	1,1	1,5	-	12,7	12,3	11,9	11,2	10,4	9,4	-	-	-	-	-	-	-	-	-	-	-
40-200/1.5	1,5	2	-	17,8	17,4	16,9	16,2	15,3	14,2	-	-	-	-	-	-	-	-	-	-	-
50-125/0.55R	0,55	0,75	-	-	-	4,9	4,7	4,4	4,2	3,8	3	2	-	-	-	-	-	-	-	-
50-125/0.55	0,55	0,75	-	-	-	5,8	5,6	5,4	5,2	4,9	4,1	3,2	-	-	-	-	-	-	-	-
50-160/1.1R	1,1	1,5	-	-	-	7,7	7,5	7,2	6,9	6,5	5,6	4,5	-	-	-	-	-	-	-	-
50-160/1.1	1,1	1,5	-	-	-	9	8,8	8,5	8,2	7,8	6,9	5,8	-	-	-	-	-	-	-	-
50-200/1.5R	1,5	2	-	-	-	12,1	11,8	11,5	11,1	10,6	9,5	8	-	-	-	-	-	-	-	-
50-200/1.5	1,5	2	-	-	-	13	12,7	12,3	11,9	11,5	10,5	9,1	-	-	-	-	-	-	-	-
50-200/2.2	2,2	3	-	-	-	17,7	17,5	17,2	16,8	16,4	15,4	14	-	-	-	-	-	-	-	-
65-125/0.55	0,55	0,75	-	-	-	-	-	4,8	4,6	4,4	4,0	3,5	3,2	2,3	1,4	-	-	-	-	-
65-125/90.75	0,75	1	-	-	-	-	-	6	5,8	5,7	5,2	4,6	4,4	3,5	2,5	2,2	-	-	-	-
65-125/1.1	1,1	1,5	-	-	-	-	-	7,2	7	5,8	6,3	5,8	5,4	4,5	3,5	3,2	2,8	-	-	-
65-160/1.1	1,1	1,5	-	-	-	-	-	-	8,1	8,0	7,4	7,0	6,6	5,7	4,6	4,2	3,8	-	-	-
65-160/1.5	1,5	2	-	-	-	-	-	-	9,2	9	8,5	8	7,7	6,7	5,7	5,3	4,9	4,5	-	-
65-160/2.2	2,2	3	-	-	-	-	-	-	11,3	11,1	10,6	10	9,8	8,8	7,6	7,2	6,8	6,4	5,5	-
65-200/2.2R	2,2	3	-	-	-	-	-	-	12,4	12,2	11,6	11	10,6	9,3	7,8	7,3	6,8	-	-	-
65-200/2.2	2,2	3	-	-	-	-	-	-	13,9	13,7	13,0	12,4	12	10,8	9,3	8,8	8,3	7,8	-	-
65-200/3.0	3	4	-	-	-	-	-	-	15,8	15,6	15,06	14,5	14,1	12,9	11,6	11,1	10,6	10,1	9	-

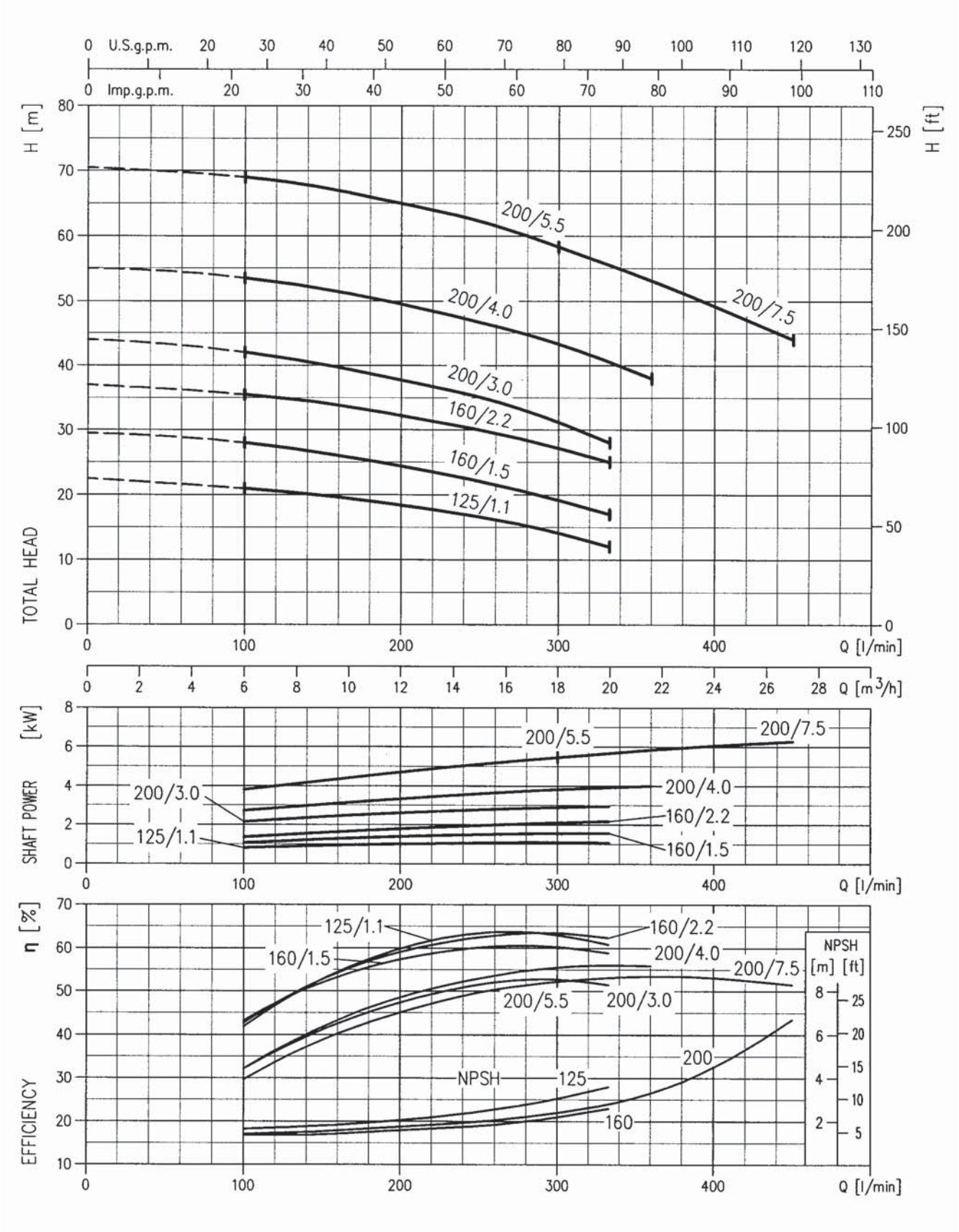
PERFORMANCE TABLE 80

4 Poles

Pump type	kW	HP	Absorbed Current (A) Three-phase				Q=Capacity									
						l/min	0	600	800	1000	1200	1400	1600	1800	2000	2200
			230V	400V	690V	m³/h	0	36	48	60	72	84	96	108	120	132
						H=Total head										
3LM4 80-160/1.5	1,5	2	5,4	3,13	-		7,3	6,8	6,3	5,7	5	4,2	3,4	2,4	-	-
3LS4 80-160/1.5	1,5	2	5	2,88	-		7,3	6,8	6,3	5,7	5	4,2	3,4	2,4	-	-
3LP4 80-160/1.5	1,5	2	5	2,88	-		7,3	6,8	6,3	5,7	5	4,2	3,4	2,4	-	-
3LM4 80-160/2.2R	2,2	3	7,3	4,25	-		8,6	8,1	7,8	7,3	6,7	6	5,2	4,2	3	-
3LS4 80-160/2.2R	2,2	3	7,6	4,48	-		8,6	8,1	7,8	7,3	6,7	6	5,2	4,2	3	-
3LP4 80-160/2.2R	2,2	3	7,6	4,48	-		8,6	8,1	7,8	7,3	6,7	6	5,2	4,2	3	-
3LM4 80-160/2.2	2,2	3	7,8	4,75	-		9,5	9,1	8,8	8,3	7,8	7,1	6,2	5,2	4,1	-
3LS4 80-160/2.2	2,2	3	8,8	5,13	-		9,5	9,1	8,8	8,3	7,8	7,1	6,2	5,2	4,1	-
3LP4 80-160/2.2	2,2	3	8,8	5,13	-		9,5	9,1	8,8	8,3	7,8	7,1	6,2	5,2	4,1	-
3LM4 80-200/3	3	4	10,2	5,9	-		12,4	12	11,5	10,7	9,7	8,6	7,3	5,9	4,2	-
3LS4 80-200/3	3	4	8,9	5,12	-		12,4	12	11,5	10,7	9,7	8,6	7,3	5,9	4,2	-
3LP4 80-200/3	3	4	8,9	5,12	-		12,4	12	11,5	10,7	9,7	8,6	7,3	5,9	4,2	-
3LM4 80-200/4R	4	5,5	13,7	7,9	-		14,8	14,4	13,9	13,2	12,2	11,2	10,1	8,8	7,2	5,6
3LS4 80-200/4R	4	5,5	12,1	6,99	-		14,8	14,4	13,9	13,2	12,2	11,2	10,1	8,8	7,2	5,6
3LP4 80-200/4R	4	5,5	12,1	6,99	-		14,8	14,4	13,9	13,2	12,2	11,2	10,1	8,8	7,2	5,6
3LM4 80-200/4	4	5,5	14,7	8,5	-		16	15,4	14,9	14,1	13,2	12,3	11,1	9,9	8,4	6,7
3LS4 80-200/4	4	5,5	13,4	7,75	-		16	15,4	14,9	14,1	13,2	12,3	11,1	9,9	8,4	6,7
3LP4 80-200/4	4,0	5,5	13,4	7,75	-		16	15,4	14,9	14,1	13,2	12,3	11,1	9,9	8,4	6,7
3LM4 80-250/5.5R	5,5	7,5	-	9,4	5,42		18,5	17,7	17	16	14,6	12,9	10,7	8,4	-	-
3LS4 80-250/5.5R	5,5	7,5	-	8,79	5,07		18,5	17,7	17	16	14,6	12,9	10,7	8,4	-	-
3LP4 80-250/5.5R	5,5	7,5	-	8,79	5,07		18,5	17,7	17	16	14,6	12,9	10,7	8,4	-	-
3LM4 80-250/5.5	5,5	7,5	-	11,3	6,52		21,2	20,5	19,9	18,9	17,6	15,9	13,8	11,7	9,3	-
3LS4 80-250/5.5	5,5	7,5	-	10,88	6,28		21,2	20,5	19,9	18,9	17,6	15,9	13,8	11,7	9,3	-
3LP4 80-250/5.5	5,5	7,5	-	10,88	6,28		21,2	20,5	19,9	18,9	17,6	15,9	13,8	11,7	9,3	-
3LM4 80-250/7.5	7,5	10	-	14,7	8,49		24,5	24	23,4	22,5	21,3	19,8	18	15,9	13,5	10,8
3LS4 80-250/7.5	7,5	10	-	13,6	7,85		24,5	24	23,4	22,5	21,3	19,8	18	15,9	13,5	10,8
3LP4 80-250/7.5	7,5	10	-	13,6	7,85		24,5	24	23,4	22,5	21,3	19,8	18	15,9	13,5	10,8

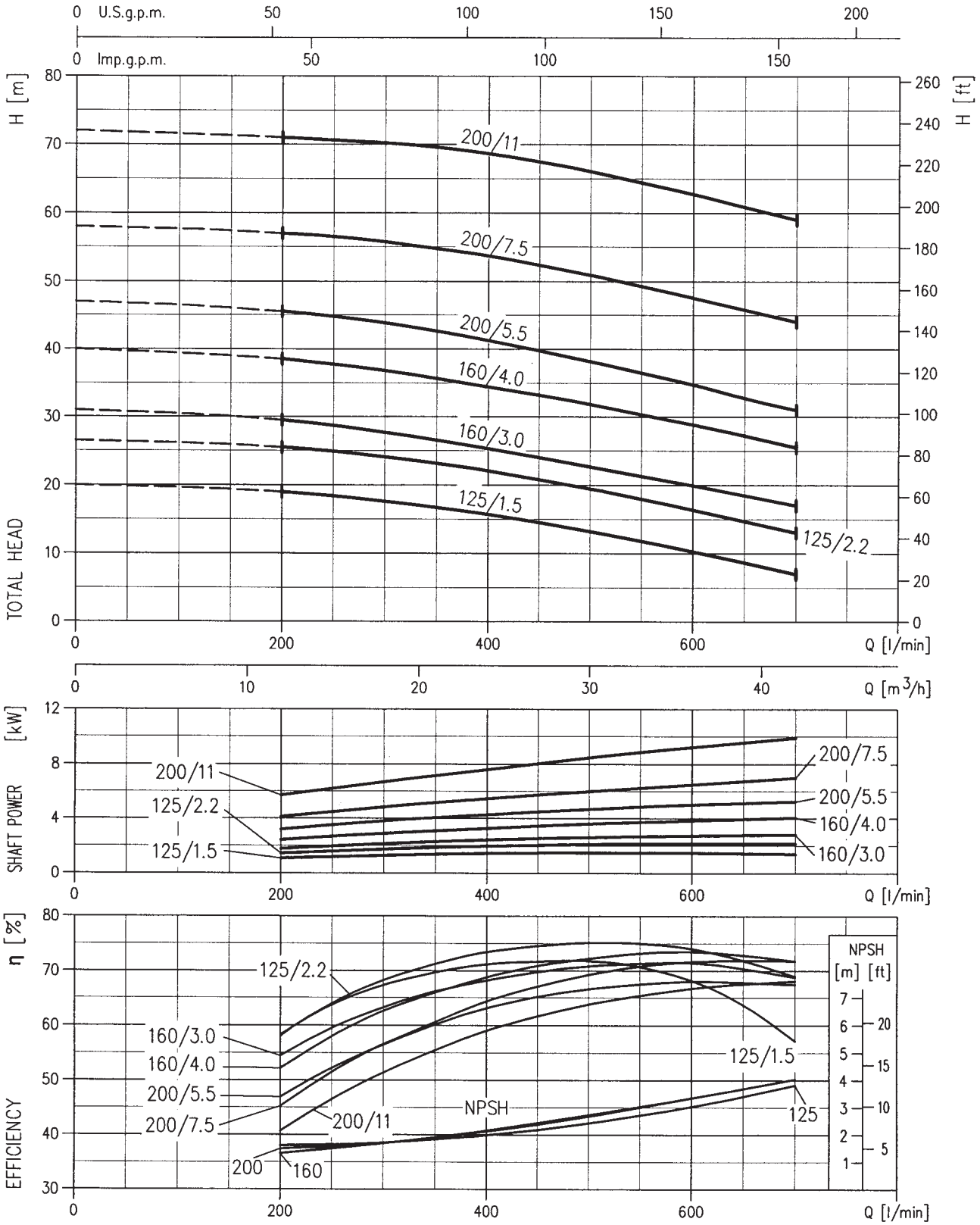
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 at 2900 min $^{-1}$

(according to ISO 9906 Annex A)



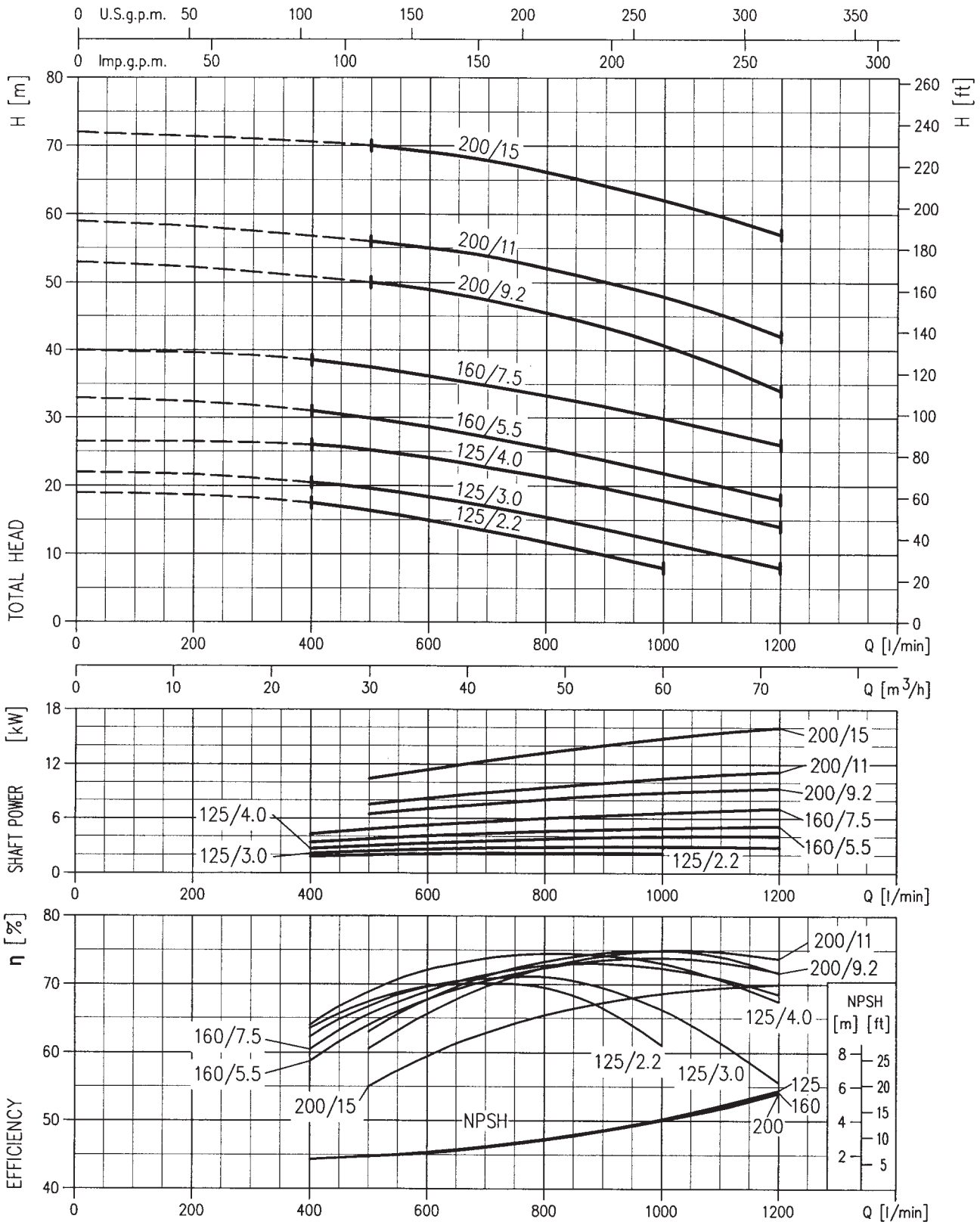
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 at 2900 min $^{-1}$

(according to ISO 9906 Annex A)



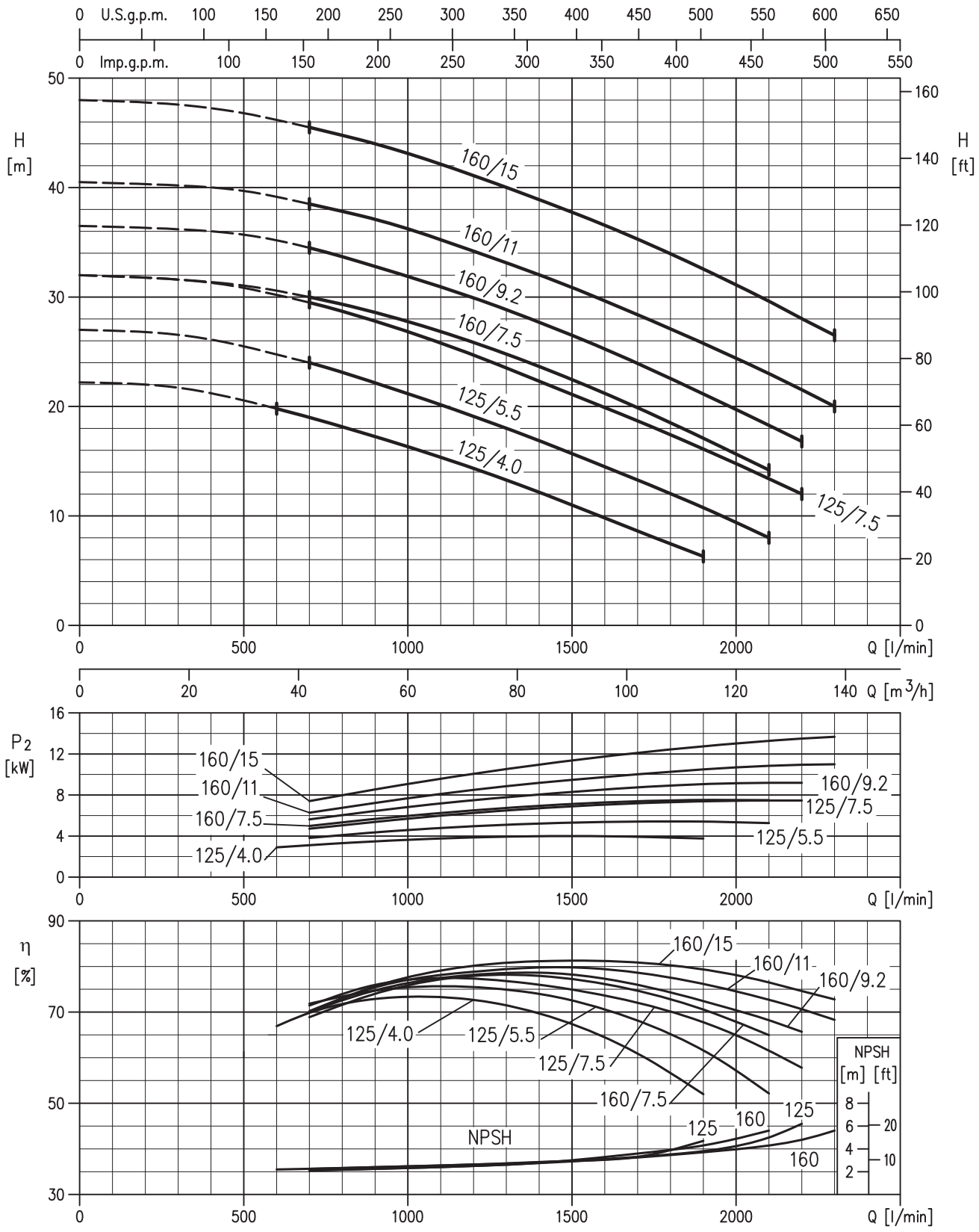
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 at 2900 min -1

(according to ISO 9906 Annex A)



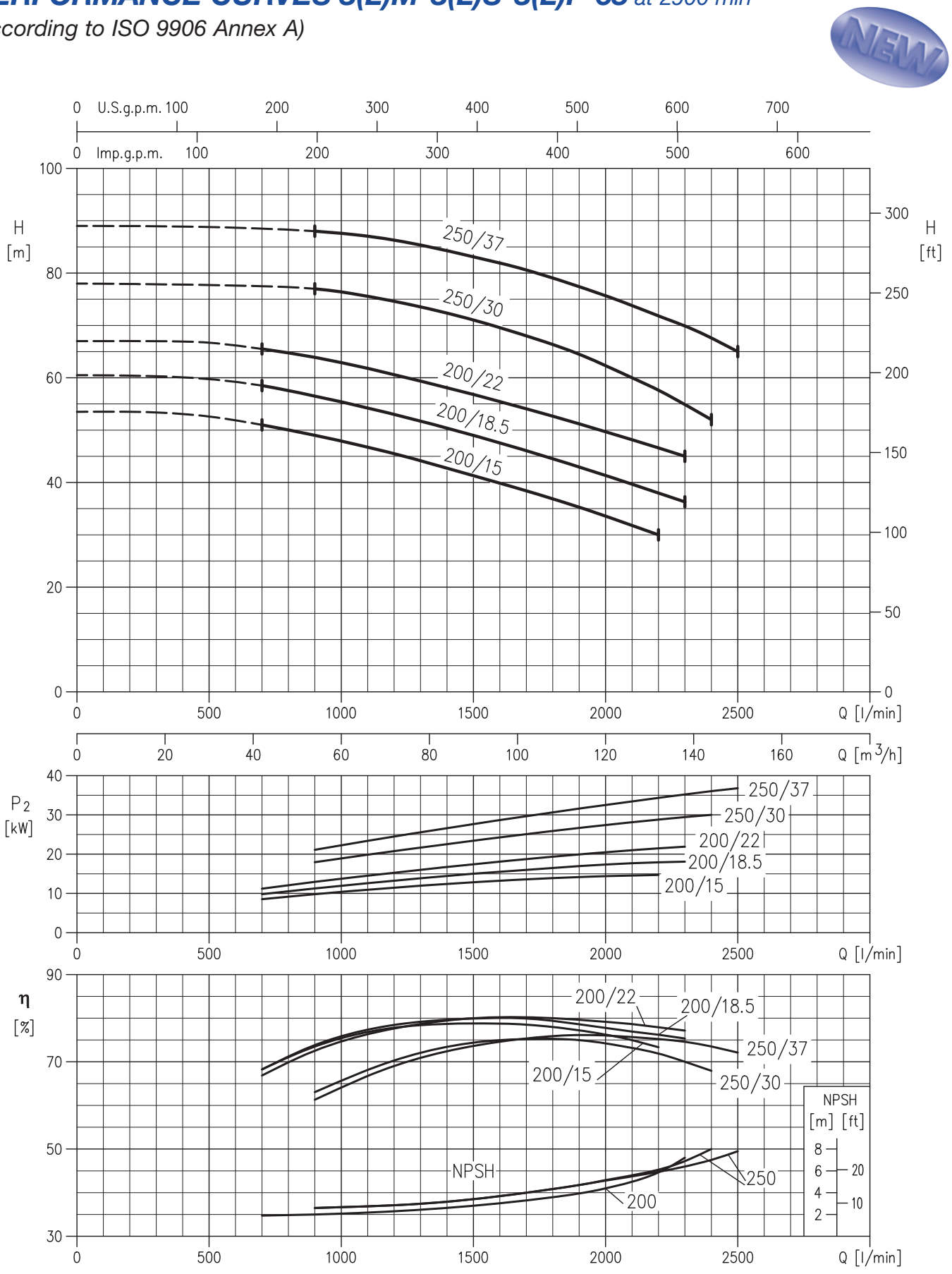
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 2900 min -1

(according to ISO 9906 Annex A)



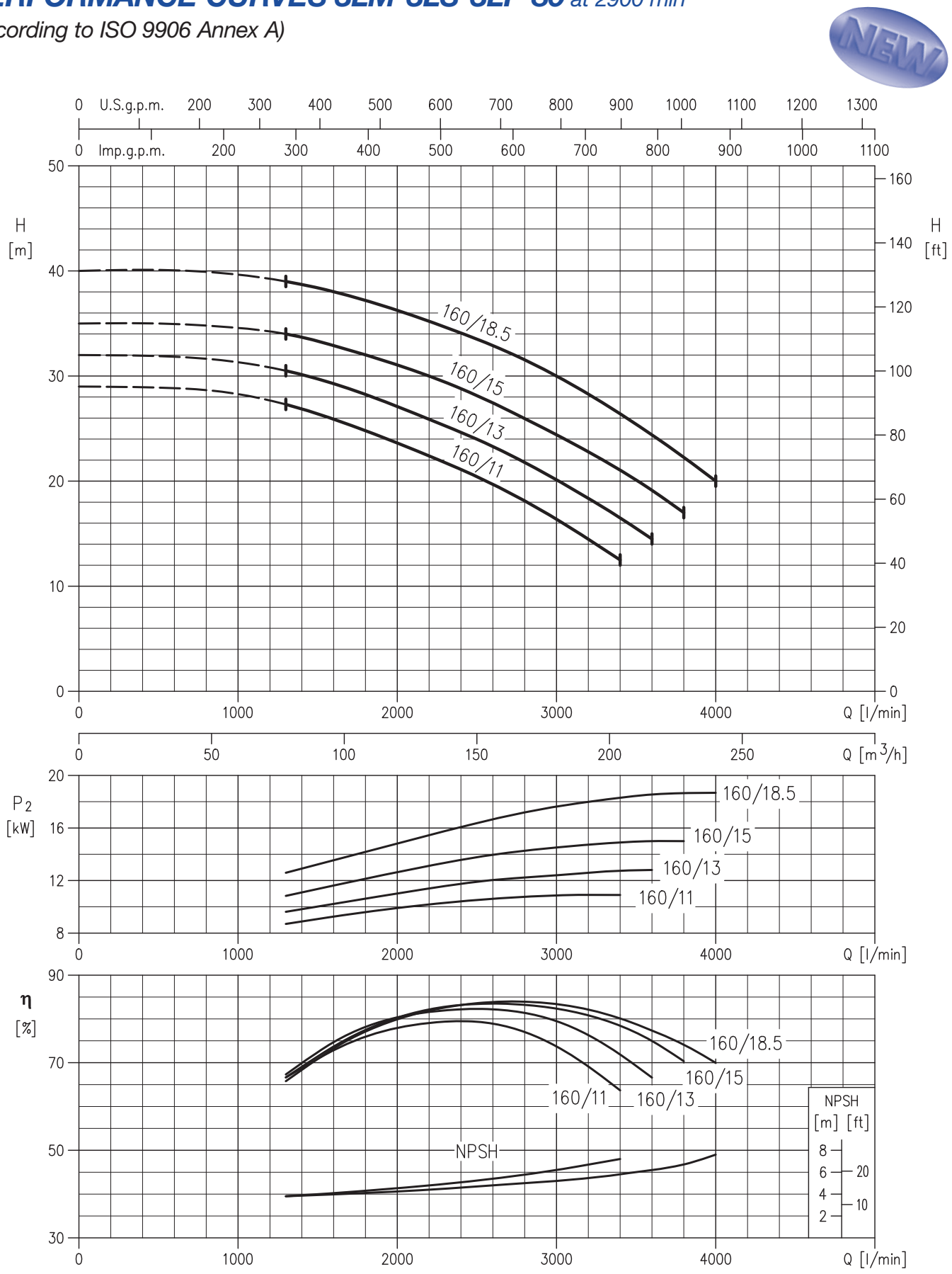
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 2900 min $^{-1}$

(according to ISO 9906 Annex A)



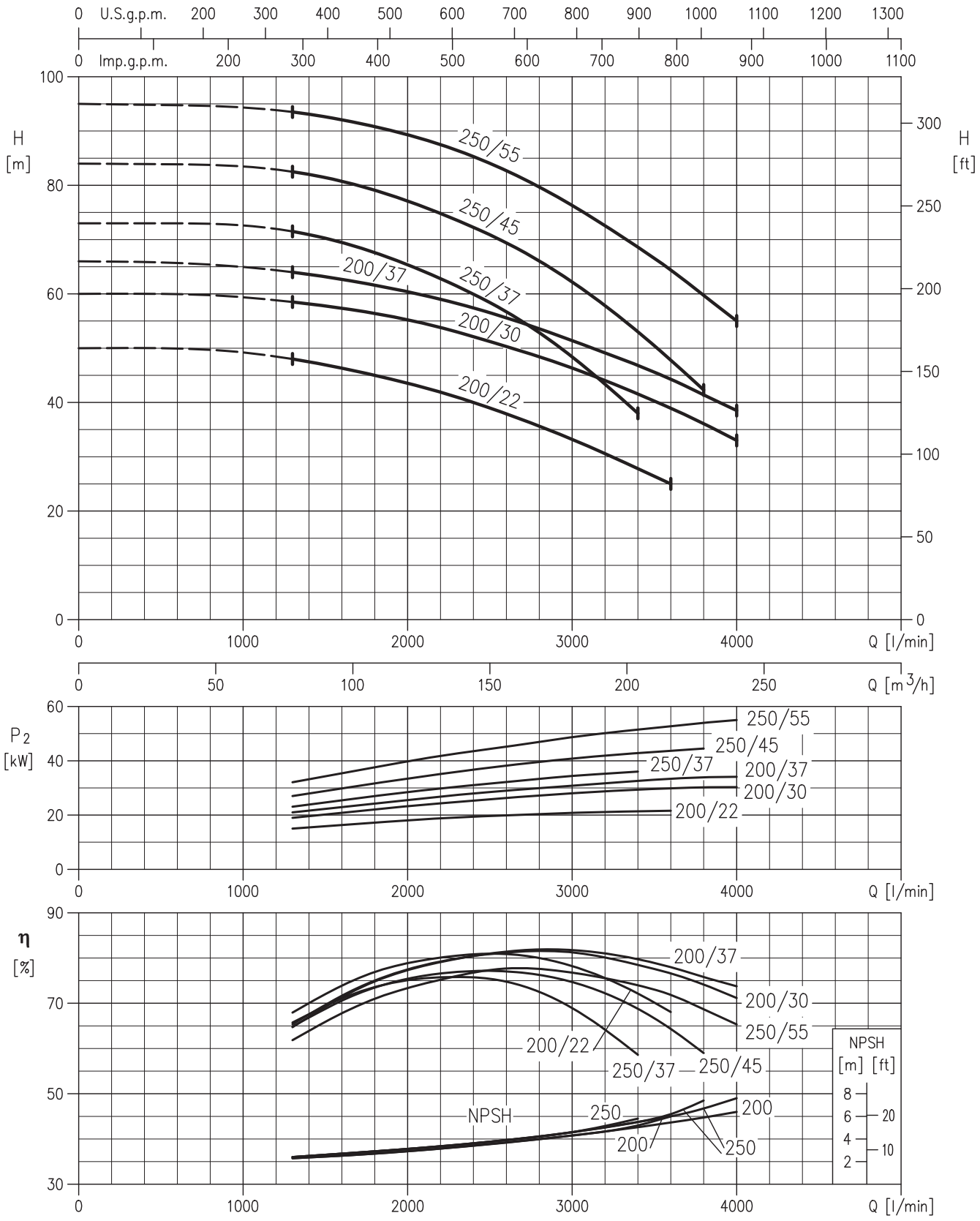
PERFORMANCE CURVES 3LM-3LS-3LP 80 at 2900 min -1

(according to ISO 9906 Annex A)



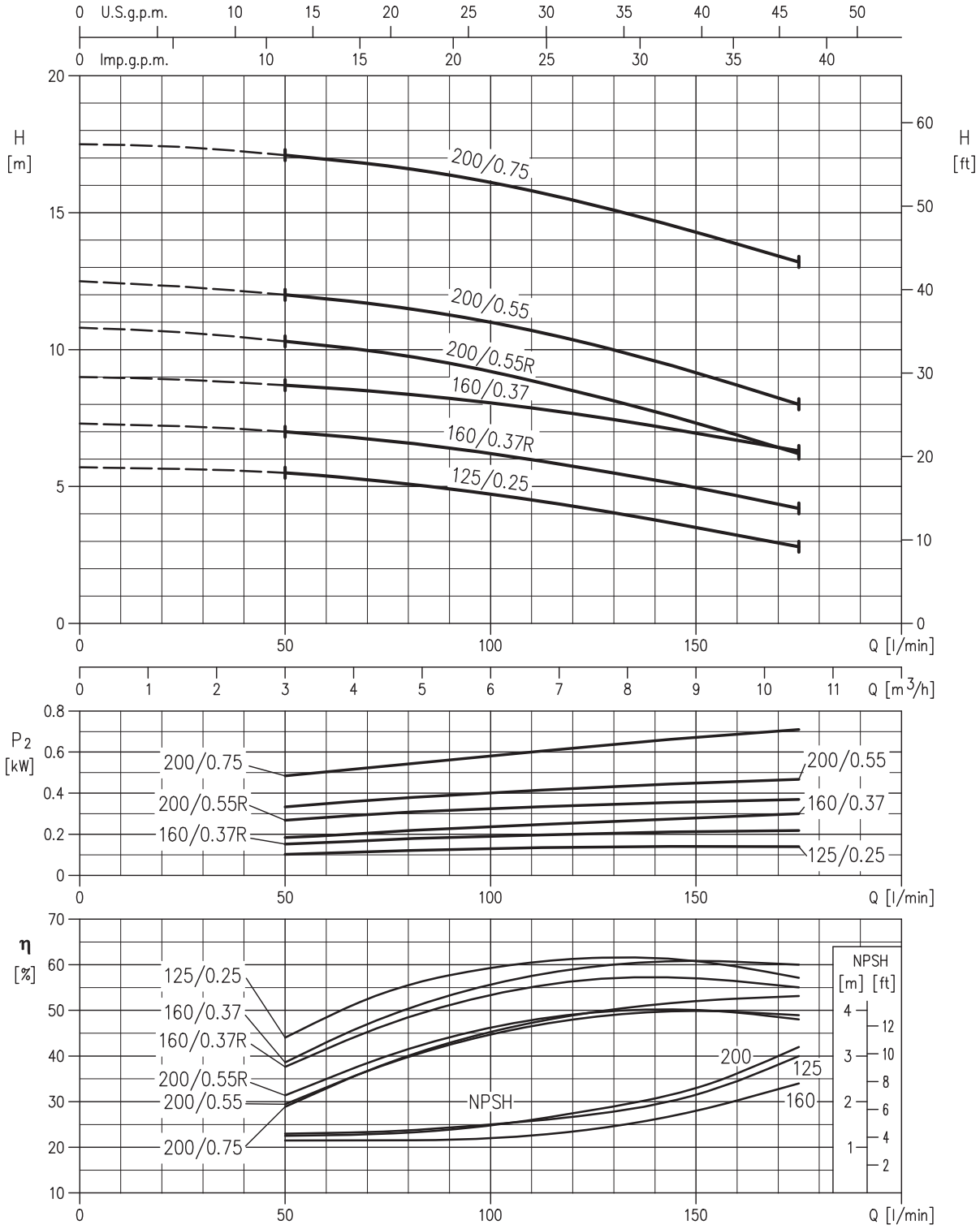
PERFORMANCE CURVES 3LM-3LS-3LP 80 at 2900 min -1

(according to ISO 9906 Annex A)



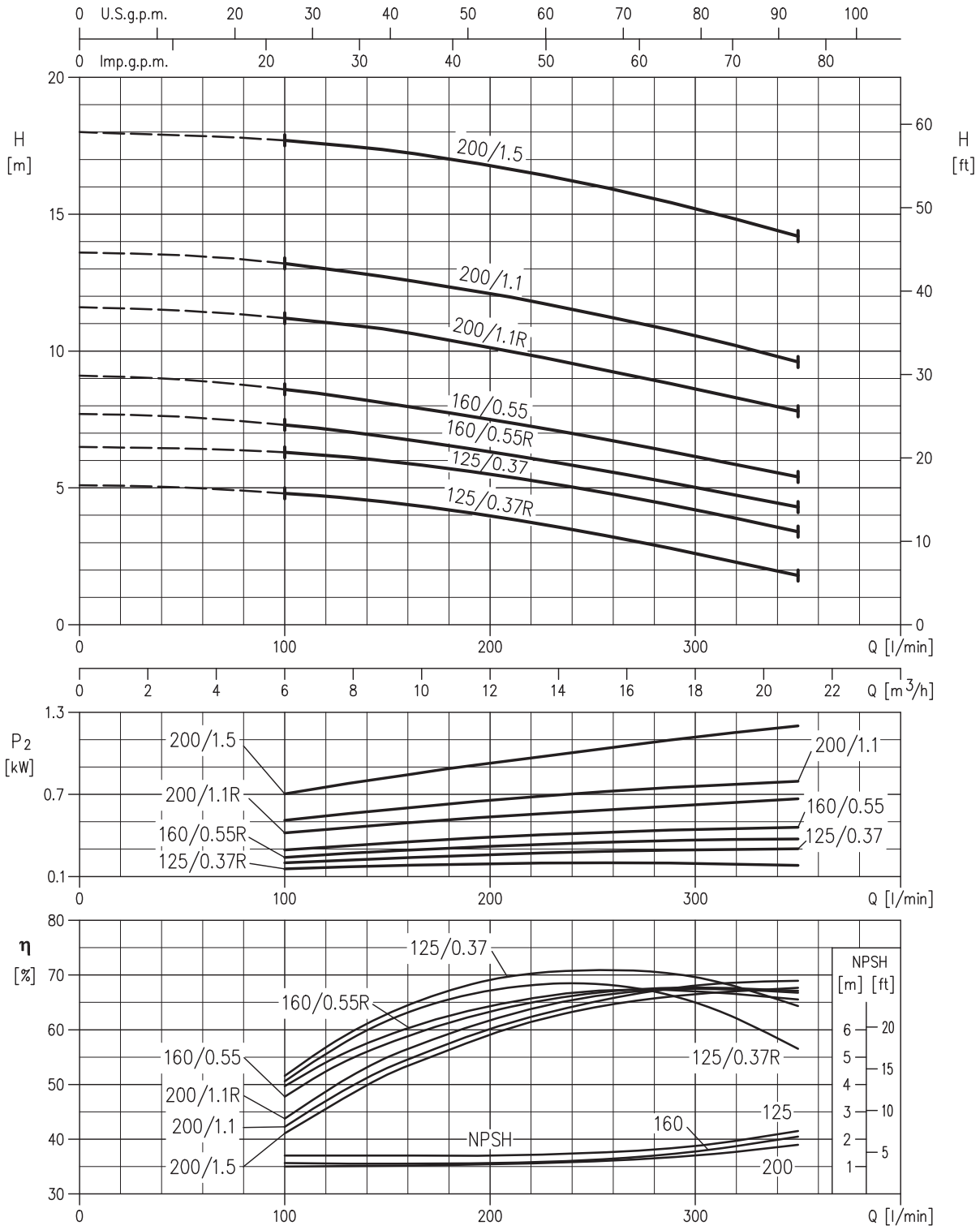
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



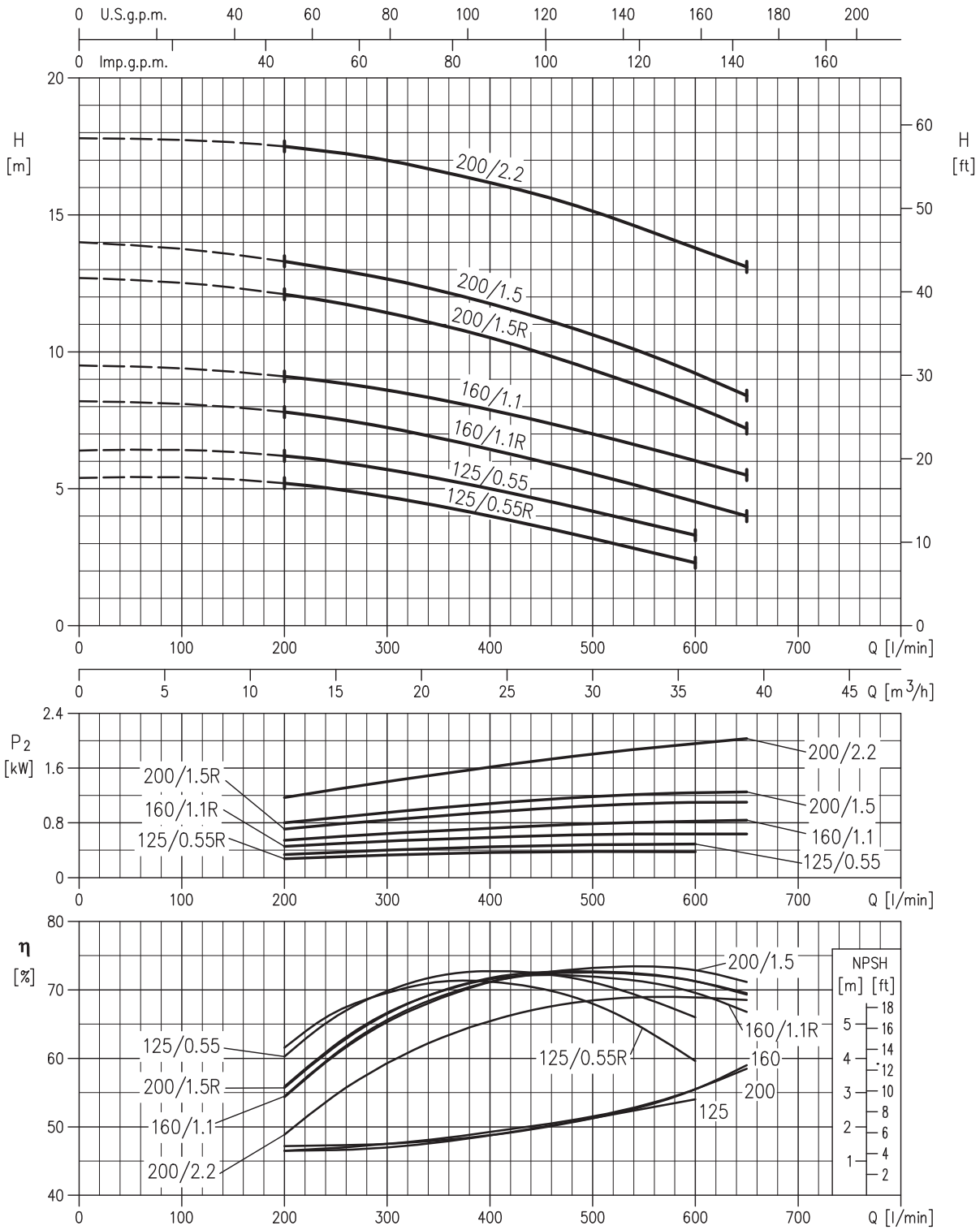
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



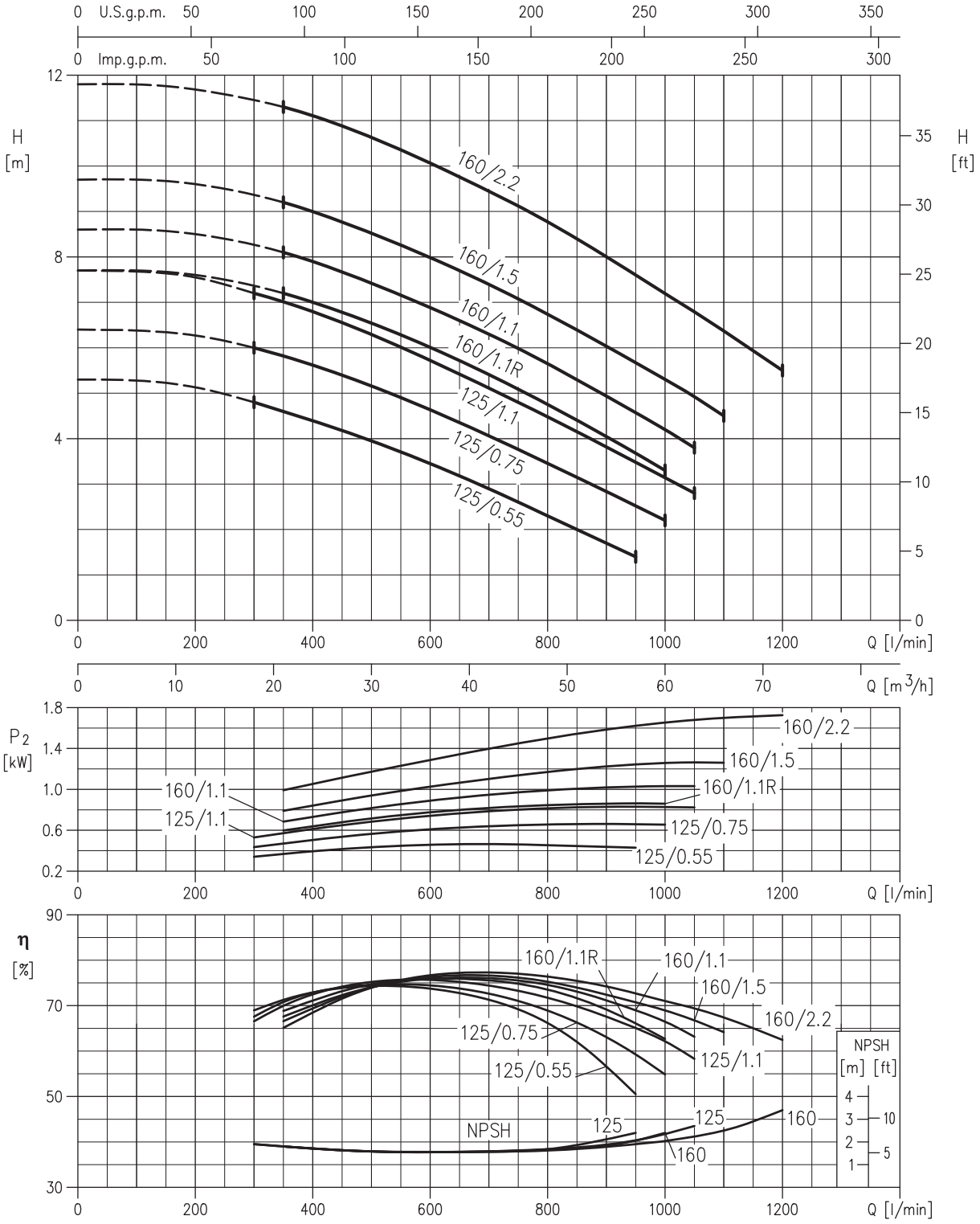
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



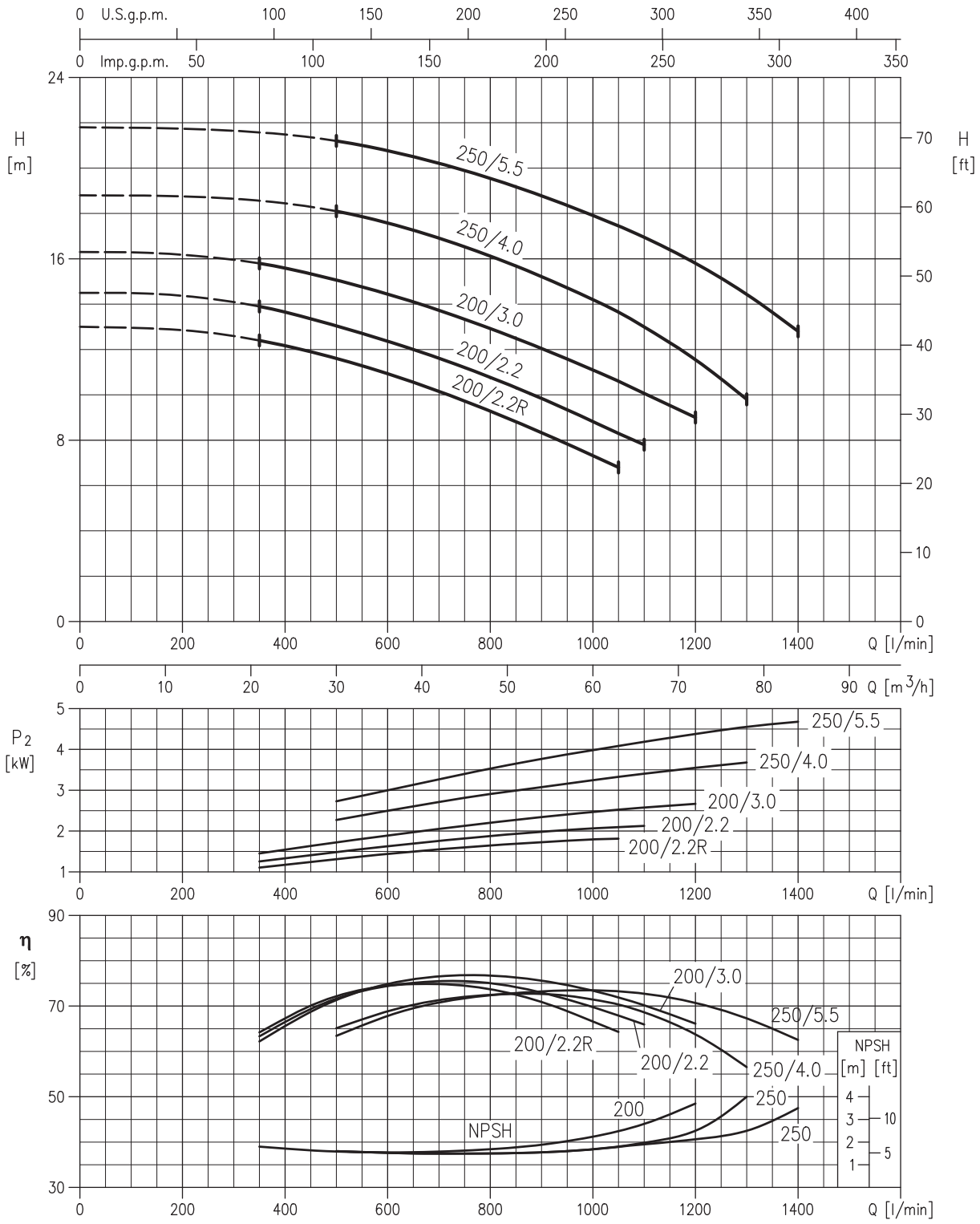
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



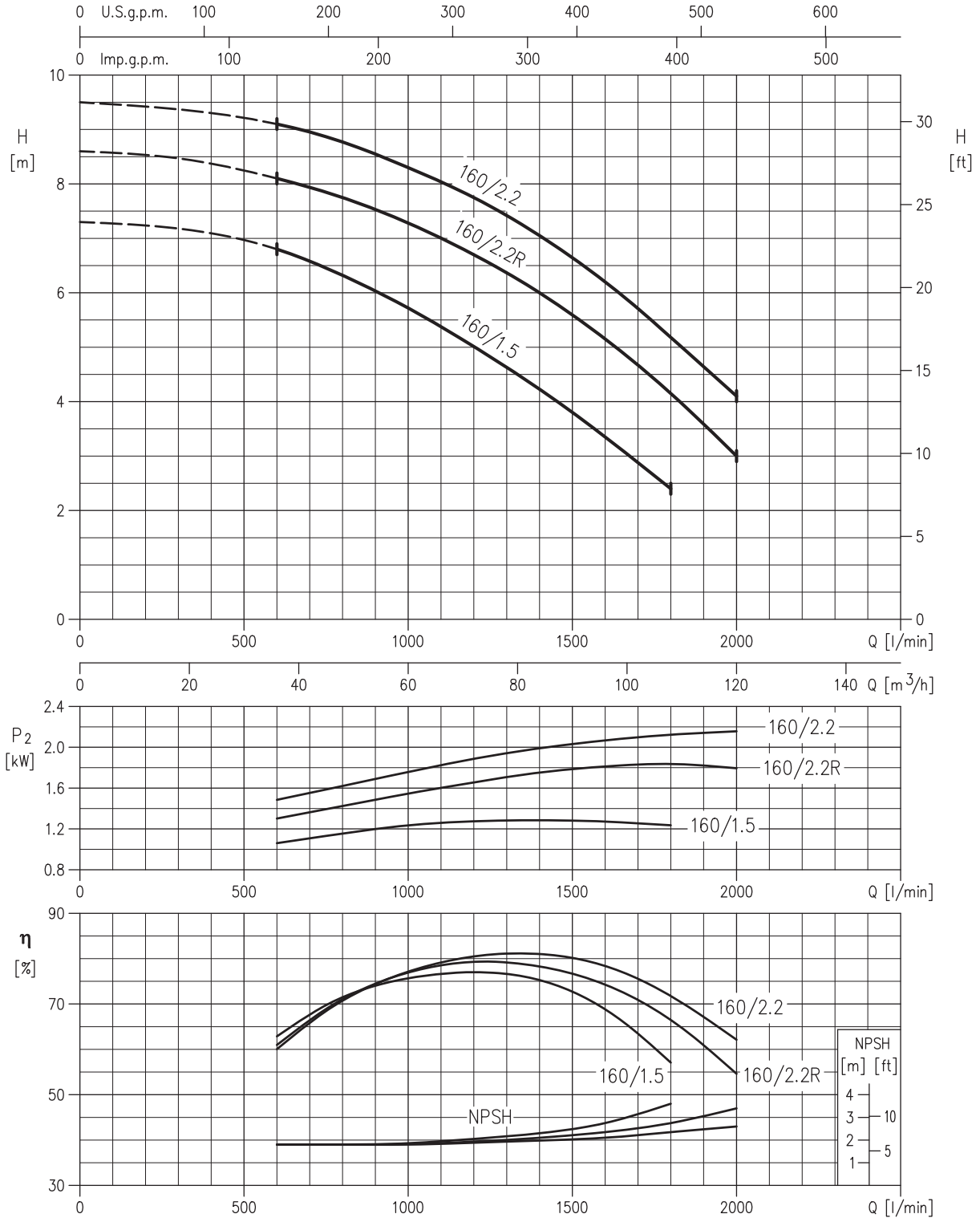
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



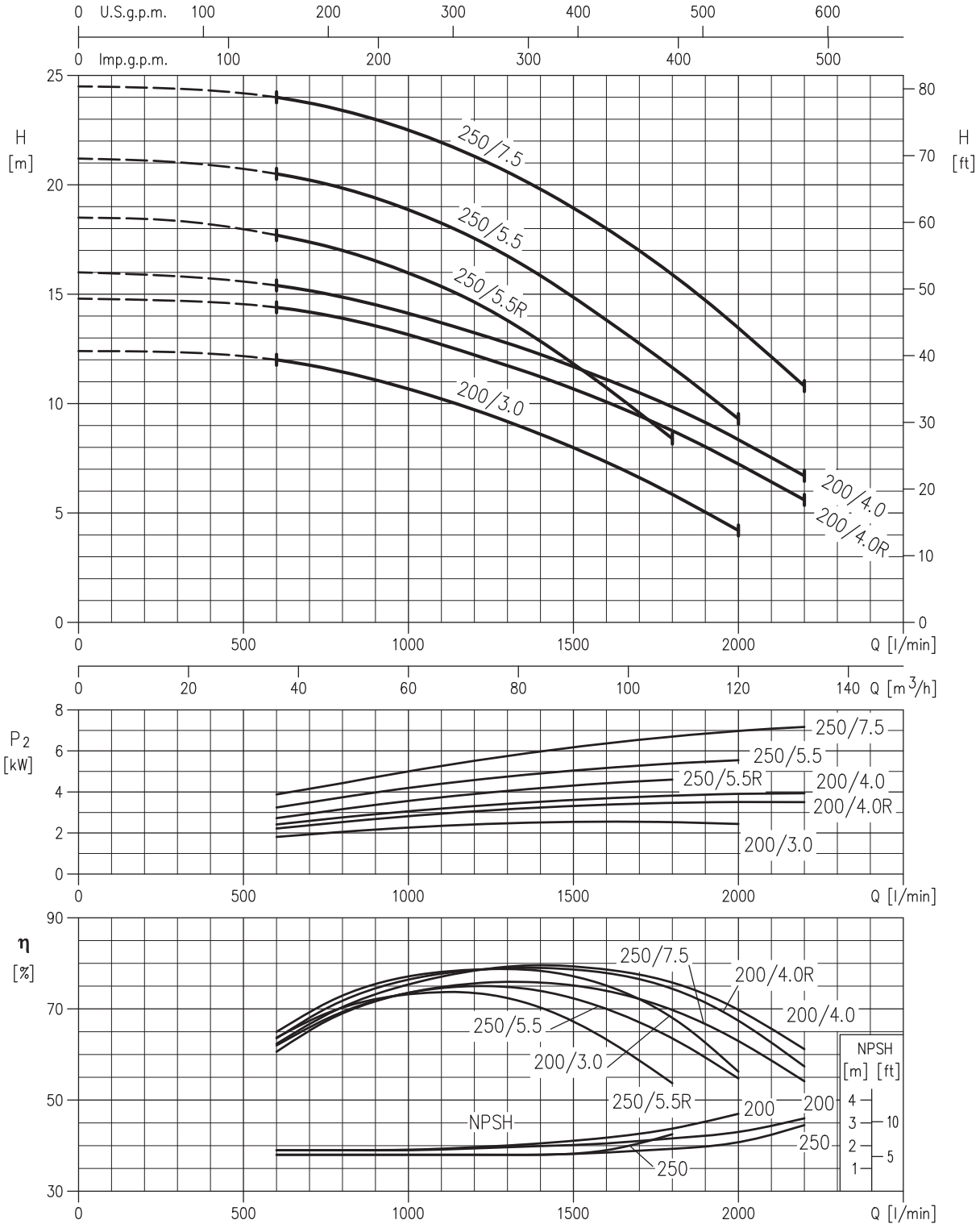
PERFORMANCE CURVES 3LM - 3LS - 3LP 80 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



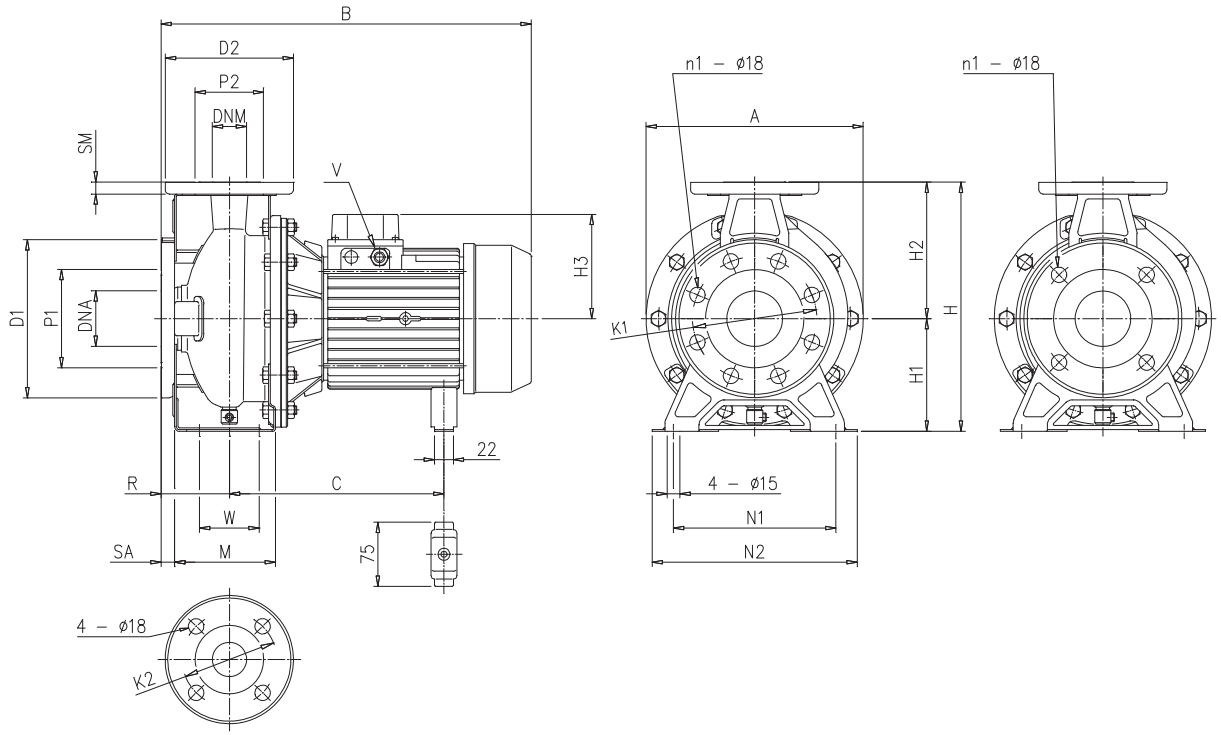
PERFORMANCE CURVES 3LM - 3LS - 3LP 80 at 1450 min $^{-1}$

(according to ISO 9906 Annex A)



3M (3LM) up to 11 kW

2 POLES



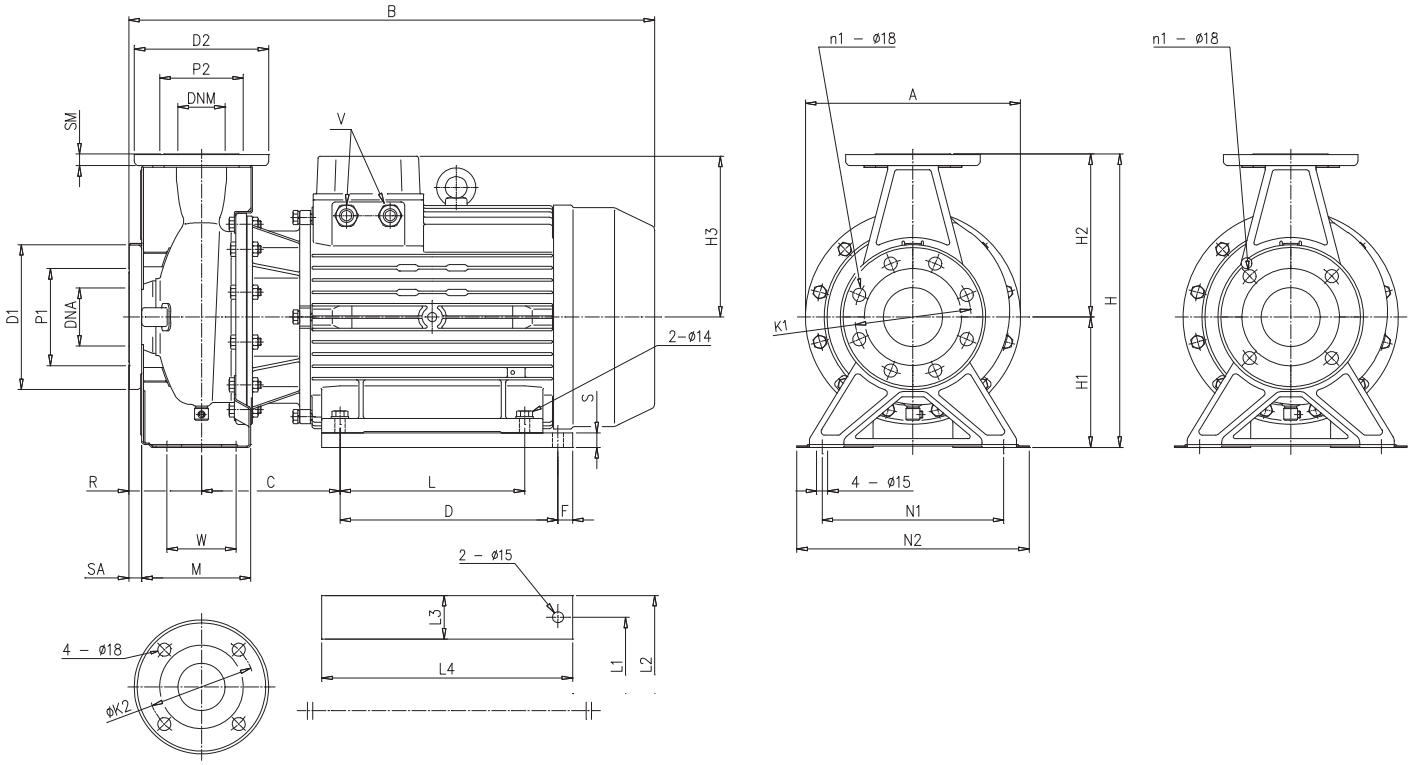
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																												Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3 [3]	H3 [4]	R	W	N1	M	N2	A	B	C	V [3]	V [4]	
3M 32-125/1.1 (M)	50	96	4	-	125	165	16	32	76	100	140	14	252	112	140	122	139	80	70	140	114	190	213	408	231	PG 13,5	PG 13,5	19,6
3M 32-160/1.5 (M)	50	96	4	-	125	165	16	32	76	100	140	14	292	132	160	122	139	80	70	190	118	240	254	408	231	PG 13,5	PG 13,5	22,5
3M 32-160/2.2 (M)	50	96	4	-	125	165	16	32	76	100	140	14	292	132	160	122	139	80	70	190	118	240	254	408	231	PG 13,5	PG 13,5	24,6
3M 32-200/3.0	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	122	-	80	70	190	119	240	296	433	256	PG 13,5	-	32,8
3M 32-200/4.0	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	134	-	80	70	190	119	240	296	458	256	PG 16	-	39,5
3M 32-200/5.5	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	153	-	80	70	190	119	240	296	477	276	PG 16	-	48,5
3M 32-200/7.5	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	153	-	80	70	190	119	240	296	520	276	PG 16	-	57
3M 40-125/1.5 (M)	65	116	4	-	145	185	16	40	81	110	150	14	252	112	140	122	139	80	70	160	114	210	213	408	231	PG 13,5	PG 13,5	20,1
3M 40-125/2.2 (M)	65	116	4	-	145	185	16	40	81	110	150	14	252	112	140	122	139	80	70	160	114	210	213	408	231	PG 13,5	PG 13,5	22,7
3M 40-160/3.0	65	116	4	-	145	185	16	40	81	110	150	14	292	132	160	122	-	80	70	190	118	240	254	433	255	PG 13,5	-	28
3M 40-160/4.0	65	116	4	-	145	185	16	40	81	110	150	14	292	132	160	134	-	80	70	190	118	240	254	458	255	PG 16	-	35,1
3M 40-160/5.5	65	116	4	-	145	185	16	40	81	110	150	14	340	160	180	153	-	100	70	212	139	265	296	497	278	PG 16	-	48,8
3M 40-200/7.5	65	116	4	-	145	185	16	40	81	110	150	14	340	160	180	153	-	100	70	212	139	265	296	540	224	PG 16	-	56,2
3M 40-200/11	65	116	4	-	145	185	16	40	81	110	150	14	340	160	180	181	-	100	70	212	139	265	296	577	224	PG 21	-	67,5
3M 50-125/2.2 (M)	65	116	4	-	145	185	16	50	96	125	165	16	292	132	160	122	139	100	70	190	138	240	254	428	231	PG 13,5	PG 13,5	28,1
3M 50-125/3.0	65	116	4	-	145	185	16	50	96	125	165	16	292	132	160	122	-	100	70	190	138	240	254	453	255	PG 13,5	-	28,6
3M 50-125/4.0	65	116	4	-	145	185	16	50	96	125	165	16	292	132	160	134	-	100	70	190	138	240	254	478	255	PG 16	-	35,2
3M 50-160/5.5	65	116	4	-	145	185	16	50	96	125	165	16	340	160	180	153	-	100	70	212	139	265	296	497	278	PG 16	-	49,1
3M 50-160/7.5	65	116	4	-	145	185	16	50	96	125	165	16	340	160	180	153	-	100	70	212	139	265	296	540	224	PG 13	-	55,5
3M 50-200/9.2	65	116	4	-	145	185	16	50	96	125	165	16	360	160	200	181	-	100	70	212	139	265	296	582	239	PG 21	-	61,7
3M 50-200/11	65	116	4	-	145	185	16	50	96	125	165	16	360	160	200	181	-	100	70	212	139	265	296	582	239	PG 21	-	67,5
3M 65-125/4	80	134	8	4	160	200	18	65	115	145	185	16	340	160	180	139	-	100	95	212	149,5	280	254	483	253	PG 16	-	40
3M 65-125/5.5	80	134	8	4	160	200	18	65	115	145	185	16	340	160	180	150	-	100	95	212	149,5	280	254	496	275	PG 16	-	52
3M 65-125/7.5	80	134	8	4	160	200	18	65	115	145	185	16	340	160	180	150	-	100	95	212	149,5	280	254	540	275	PG 16	-	58,5
3m 65-160/7.5	80	134	8	4	160	200	18	65	115	145	185	16	360	160	200	150	-	100	95	212	149,5	280	296	540	275	PG 16	-	62
3M 65-160/9.2	80	134	8	4	160	200	18	65	115	145	185	16	360	160	200	177,5	-	100	95	212	149,5	280	296	593	356	PG 21	-	67
3M 65-160/11	80	134	8	4	160	200	18	65	115	145	185	16	360	160	200	177,5	-	100	95	212	149,5	280	296	593	356	PG 21	-	75,6

[1] Standard
[2] On request
[3] Only for three phase
[4] Only for single phase

3M (3LM) 15 ÷ 22 kW

2 POLES

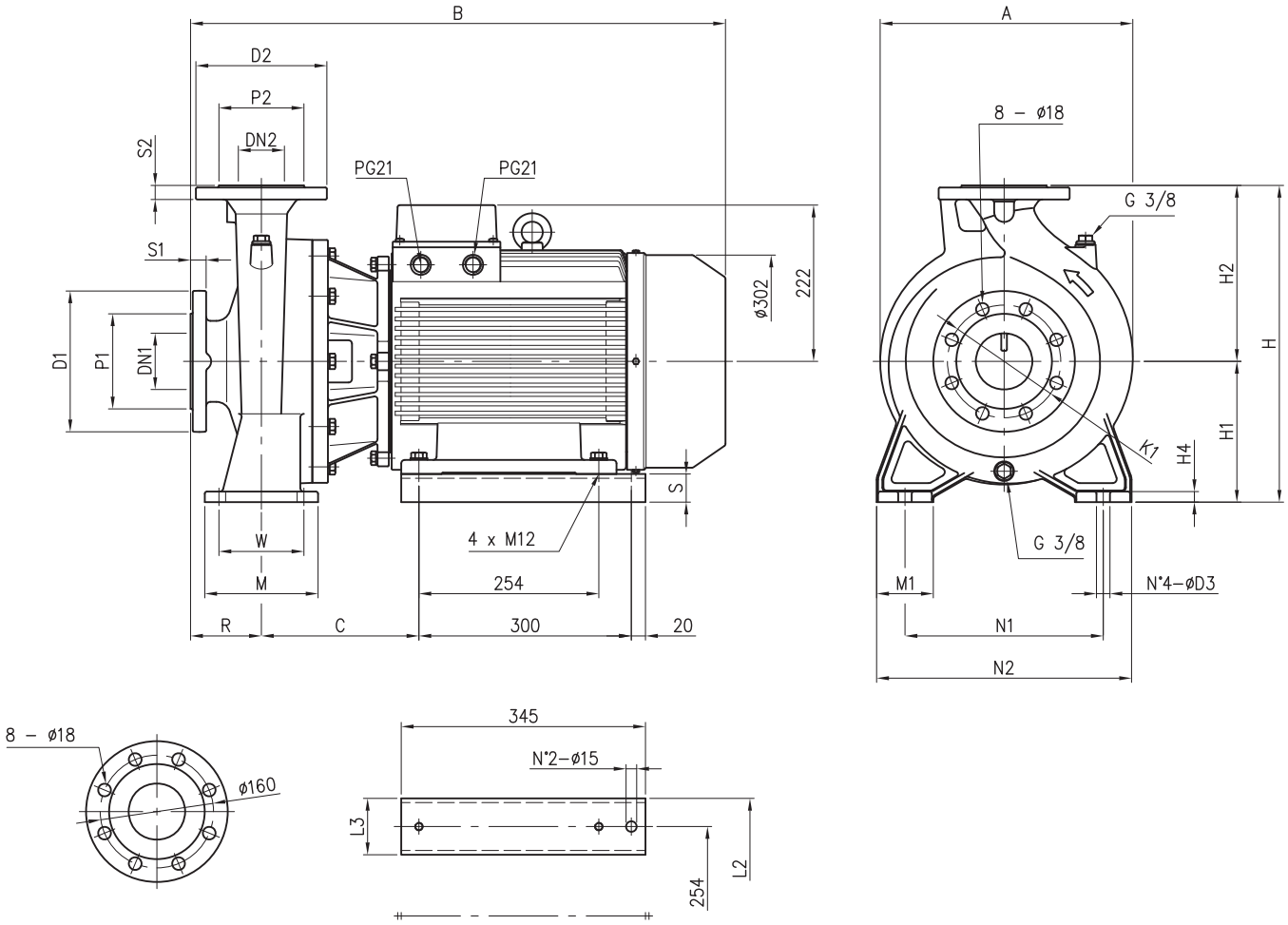


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																																Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	R	W	N1	M	N2	A	B	L	L1	L2	L3	L4	C	D	F	V	S	
3M 50-200/15	65	116	4	-	145	185	16	50	96	125	165	16	360	160	200	222	100	70	212	139	265	296	723,5	254	254	318	65	304	190,5	-	-	PG 21	-	96
3M 65-160/15	80	134	8	4	160	200	18	65	115	145	185	16	360	160	200	222	100	95	212	149,5	280	296	733	254	254	318	65	304	199,5	-	-	PG 21	-	93
3M 65-200/15	80	134	8	4	160	200	18	65	115	145	185	16	405	180	225	222	100	95	250	149,5	320	296	733	-	258	318	60	345	199,5	300	20	PG 21	20	114
3M 65-200/18.5	80	134	8	4	160	200	18	65	115	145	185	16	405	180	225	222	100	95	250	149,5	320	296	733	-	258	318	60	345	199,5	300	20	PG 21	20	127
3M 65-200/22	80	134	8	4	160	200	18	65	115	145	185	16	405	180	225	222	100	95	250	149,5	320	296	733	-	258	318	60	345	199,5	300	20	PG 21	20	136

3M (3LM)

2 POLES

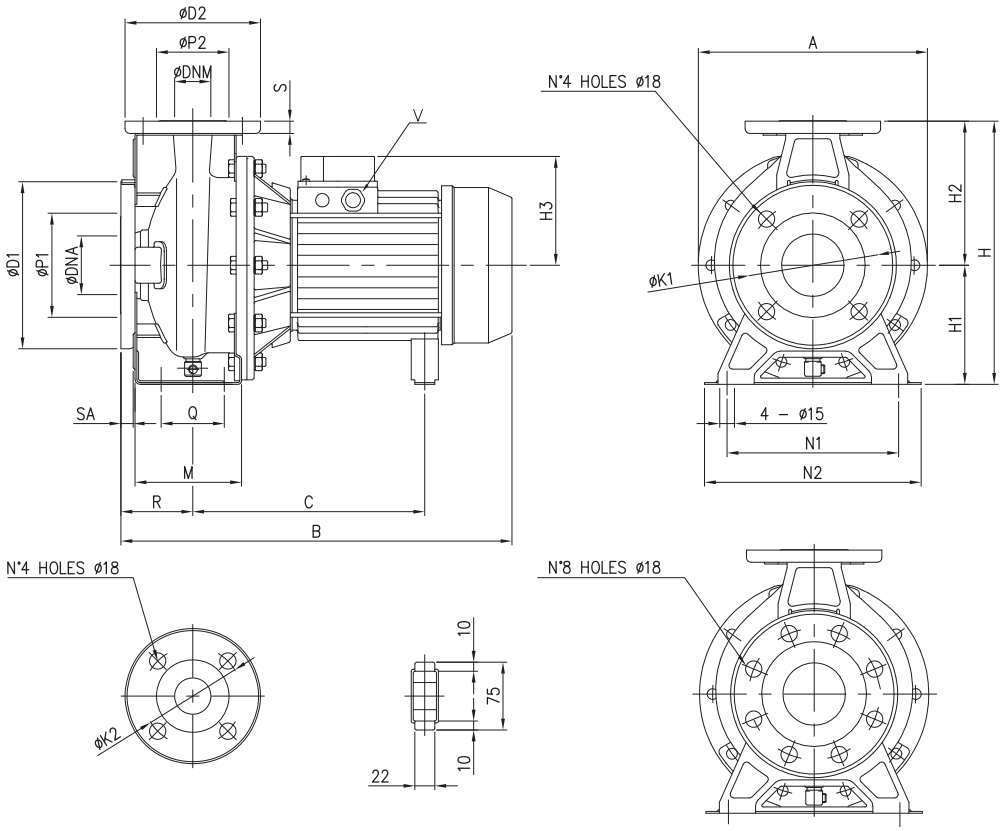


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																										Weight
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H4	R	W	N1	N2	M	M1	L2	L3	A	B	C	D	D3	(kg)
3LM(.) 80-160/15	100	155	180	225	24	80	135	200	22	405	180	225	13	125	95	250	320	125	65	314	60	317	758	199,5	20	15	130
3LM(.) 80-160/18.5	100	155	180	225	24	80	135	200	22	405	180	225	13	125	95	250	320	125	65	314	60	317	758	199,5	20	15	143

3M4 (3LM4) up to 65 size

4 POLES



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																						N. Holes		Weight
	A	B	C	H	H1	H2	H3	M	N1	N2	Q	R	V	S	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	SA	Ø DNA	Ø DNM	Standard	On request	(kg)
32-125/0.25	213	375	205	252	112	140	104	114	140	190	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-	15
32-160/0.37R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-	20
32-160/0.37	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-	20
32-200/0.55R	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-	25
32-200/0.55	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-	25
32-200/0.75	294	408	232	340	160	180	122	119	190	240	70	80	PG13.5	14	165	125	96	140	100	76	16	50	32	4	-	29,3
40-125/0.37R	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-	15
40-125/0.37	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-	15
40-160/0.55R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-	20
40-160/0.55	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-	20
40-200/1.1R	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-	30
40-200/1.1	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-	30
40-200/1.5	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-	32,2
50-125/0.55R	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-	20
50-125/0.55	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-	20
50-160/1.1R	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-	30
50-160/1.1	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-	30
50-200/1.5R	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-	30
50-200/1.5	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-	30
50-200/2.2	296	478	256	360	160	200	134	139	212	265	70	100	PG16	16	185	145	116	165	125	96	16	65	50	4	-	31,8
65-125/0.55	254	415	219	340	160	180	117	150	212	280	95	100	PG11	16	200	160	134	185	145	115	18	80	65	8	4	24,9
65-125/0.75	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4	29,8
65-125/1.1	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4	30,1
65-160/1.1	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4	32,8
65-160/1.5	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4	34,6
65-160/2.2	296	483	253	360	160	200	139	150	212	280	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4	39,8
65-200/2.2R	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4	46,5
65-200/2.2	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4	46,7
65-200/3.0	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4	51,3

3M4 (3LM4) up to 80 size

4 POLES

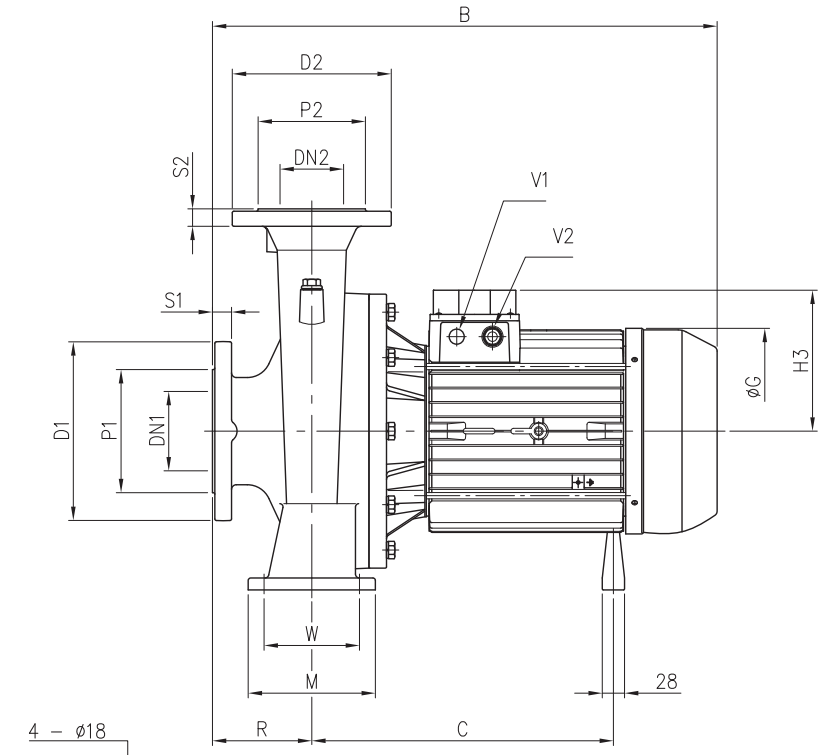


Fig. 1

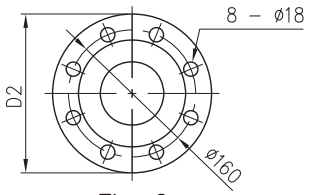
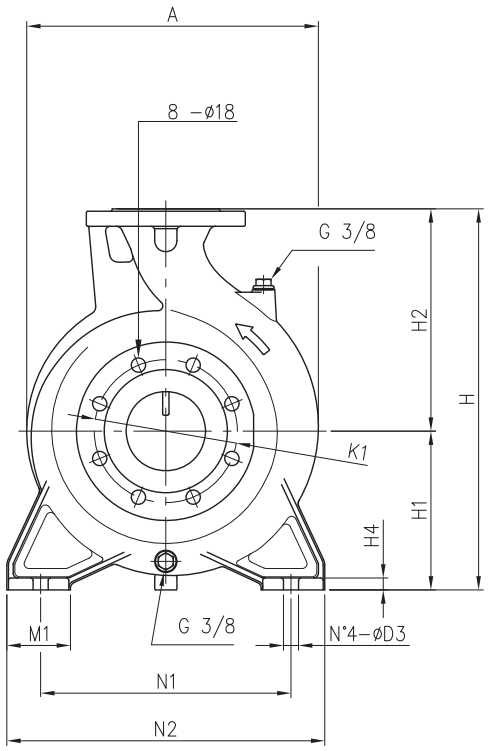


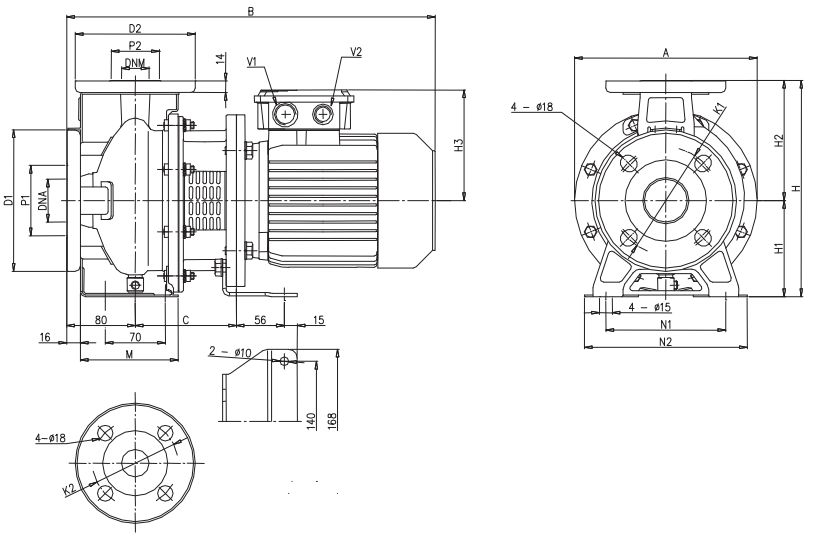
Fig. 2



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																												Weight
	DN1	P1	K1	D1	S1	DN2	Fig.	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	A	B	C	G	D3	D5	V1	V2	(kg)
3LM4(.) 65-250/4	80	135	160	200	22	65	1	120	185	20	450	200	250	150	15	100	120	280	360	160	80	357	516	295	216	19	M10	PG13,5	PG16	82
3LM4(.) 65-250/5.5	80	135	160	200	22	65	1	120	185	20	450	200	250	178	15	100	120	280	360	160	80	357	610	380	255	19	M10	PG13,5	PG21	94,5
3LM4(.) 80-160/1.5	100	155	180	225	24	80	2	135	200	22	405	180	225	124	13	125	95	250	320	125	65	317	452	230	172	15	M8	-	PG13,5	55
3LM4(.) 80-160/2.2R	100	155	180	225	24	80	2	135	200	22	405	180	225	139	13	125	95	250	320	125	65	317	508	253	187	15	M10	-	PG16	60
3LM4(.) 80-160/2.2	100	155	180	225	24	80	2	135	200	22	405	180	225	139	13	125	95	250	320	125	65	317	508	253	187	15	M10	-	PG16	60,5
3LM4(.) 80-200/3	100	155	180	225	24	80	2	135	200	22	430	180	250	139	13	125	95	280	345	125	65	354	530	275	187	15	M10	-	PG16	76,5
3LM4(.) 80-200/4R	100	155	180	225	24	80	2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	354	541	295	216	15	M10	PG13,5	PG16	85,5
3LM4(.) 80-200/4	100	155	180	225	24	80	2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	354	541	295	216	15	M10	PG13,5	PG16	86
3LM4(.) 80-250/5.5R	100	155	180	225	24	80	2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	367	635	380	255	19	M10	PG13,5	PG21	98,5
3LM4(.) 80-250/5.5	100	155	180	225	24	80	2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	367	635	380	255	19	M10	PG13,5	PG21	99
3LM4(.) 80-250/5.5	100	155	180	225	24	80	2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	367	635	380	255	19	M10	PG13,5	PG21	104,5

3S (3LS) up to 2,2 kW — 2 POLES

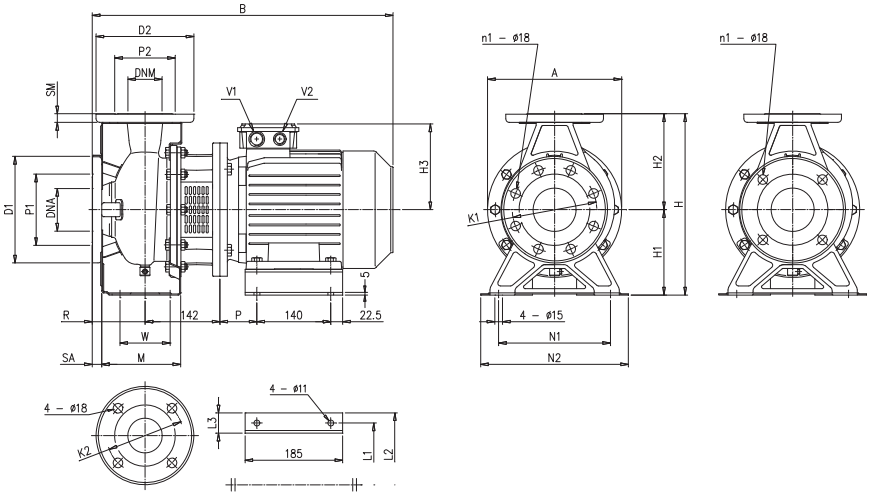


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																					Weight (kg)
	Ø DNA	Ø P1	Ø K1	Ø D1	Ø DNM	Ø P2	Ø K2	Ø D2	H	H1	H2	H3 [1]	H3 [2]	N1	M	N2	A	B	C	V1	V2	
3S 32-125/1.1 (M)	50	96	125	165	32	76	100	140	252	112	140	129	150	140	114	190	213	430	118	PG16	PG13,5	23,1
3S 32-160/1.5 (M)	50	96	125	165	32	76	100	140	292	132	160	138	160	190	118	240	254	477	130	PG16	pG13,5	28,5
3S 32-160/2.2 (M)	50	96	125	165	32	76	100	140	292	132	160	138	160	190	118	240	254	477	130	PG16	PG13,5	32,4
3S 40-125/2.2 (M)	65	116	145	185	40	81	110	150	252	112	140	138	160	160	114	210	213	477	130	PG16	PG13,5	26,5
3S 40-125/2.2 (M)	65	116	145	185	40	81	110	150	252	112	140	138	160	160	114	210	213	477	130	PG16	PG13,5	29,6
3S 50-125/2.2 (M)	65	116	145	185	50	95	125	165	292	132	160	138	160	190	138	240	254	497	130	PG16	PG13,5	32,9

[1] Only for three phase
[2] Only for single phase

3S (3LS) 3 ÷ 4 kW — 2 POLES



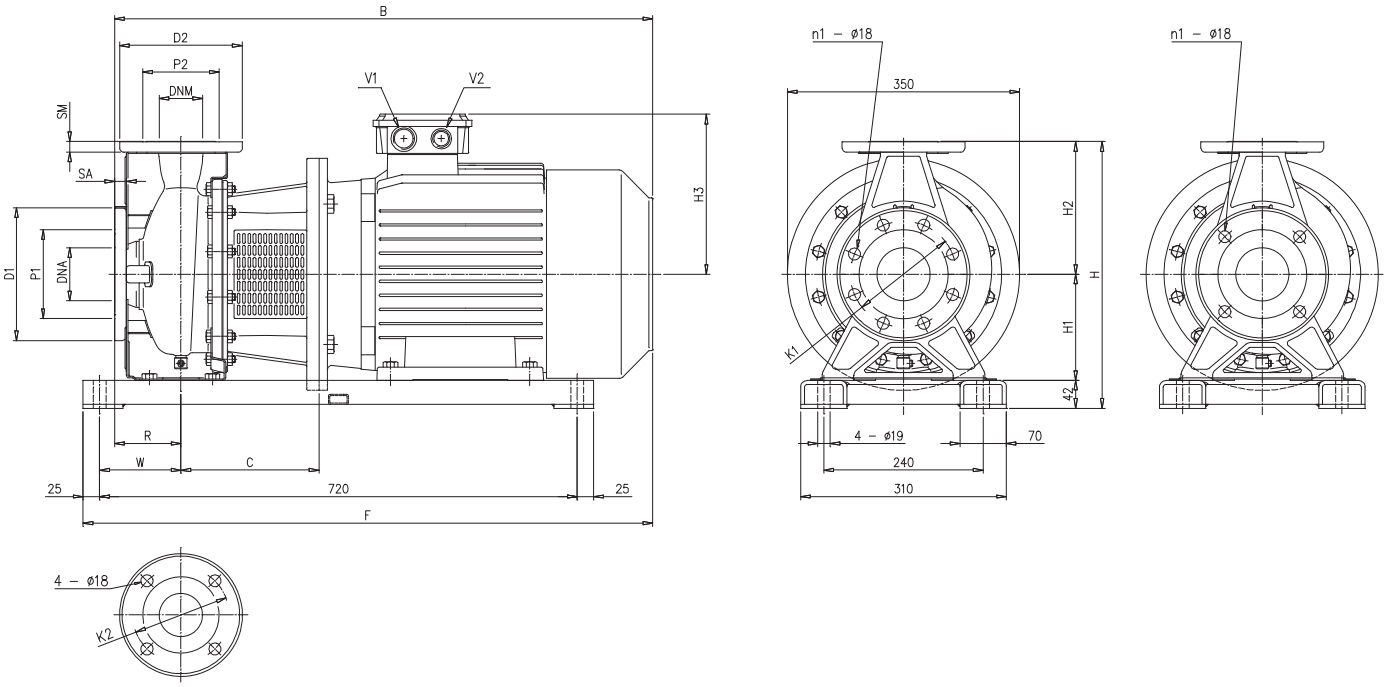
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																												Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	R	W	N1	M	N2	A	B	L1	L2	L3	P	V1	V2	
3S 32-200/3.0	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	145	80	70	190	119	240	294	528	160	202	42	63	PG 16	PG 13,5	43,4
3S 32-200/4.0	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	161	80	70	190	119	240	294	550	190	228	38	70	PG 16	PG 13,5	45,9
3S 65-125/4.0	80	134	8	4	160	200	18	65	115	145	185	16	340	160	180	161	100	95	212	149,5	280	254	615	190	228	38	70	PG16	PG 13,5	47

[1] Standard
[2] On request

3S (3LS) 11 ÷ 15 kW

2 POLES



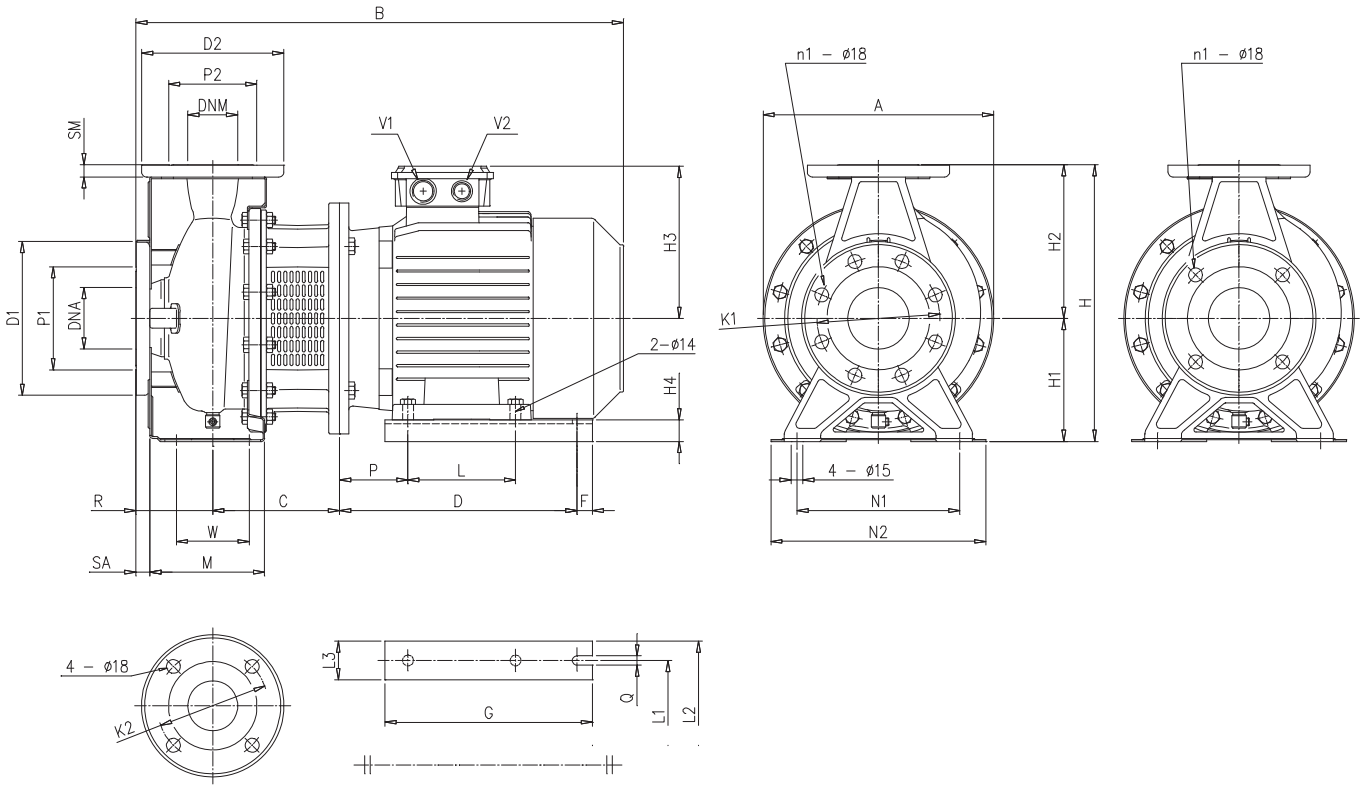
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																							Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	R	W	B	C	F	V1	V2	
3S 40-200/11	65	115	4	-	145	185	16	40	80	110	150	14	382	160	180	250	100	110	801	198	836	PG 29	PG 29	107
3S 50-200/11	65	115	4	-	145	185	16	50	95	125	165	16	402	160	200	250	100	110	801	198	836	PG 29	PG 29	107
3S 50-200/15	65	115	4	-	145	185	16	50	95	125	165	16	402	160	200	250	100	110	801	198	836	PG 29	PG 29	131
3S 65-160/11	80	134	8	4	160	200	18	65	115	145	185	16	402	160	200	246	100	122,5	801	198	849	PG 29	PG 29	76
3S 65-160/15	80	134	8	4	160	200	18	65	115	145	185	16	402	160	200	246	100	122,5	811	208	859	PG 29	PG 29	104

[1] As standard
[2] On request

3S (3LS) up to 65 size

2 POLES



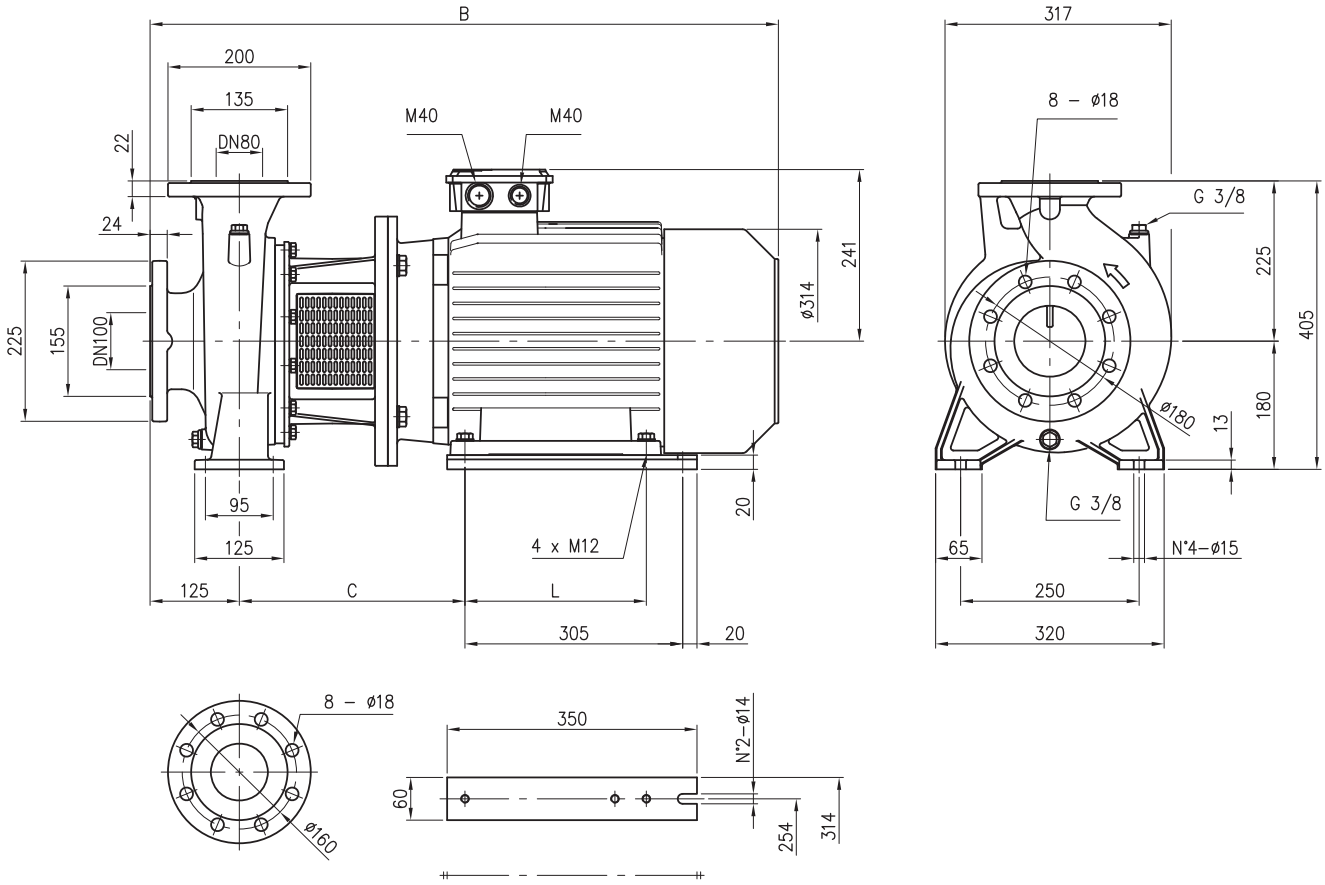
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																																							Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	H4	R	W	N1	M	N2	A	B	C	D	F	L	L1	L2	L3	G	Q	P	V	V2	
3S 32-200/5.5	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	205	28	80	70	190	119	240	300	615	165	314	15	-	216	266	50	270	12	-	PG21	PG21	62,8
3S 32-200/7.5	50	96	4	-	125	165	16	32	76	100	140	14	340	160	180	205	28	80	70	190	119	240	300	615	165	314	15	-	216	266	50	270	12	-	PG21	PG21	74,6
3S 40-160/3.0	65	116	4	-	145	185	16	40	81	110	150	14	292	132	160	145	32	80	70	190	118	240	254	528	142	246	15	-	160	200	40	220	12	-	PG16	PG13,5	39
3S 40-160/4.0	65	116	4	-	145	185	16	40	81	110	150	14	292	132	160	161	20	80	70	190	118	240	254	550	142	253	15	-	190	240	50	220	12	-	PG16	PG13,5	41,5
3S 40-200/5.5	65	116	4	-	145	185	16	40	81	110	150	14	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	63,2
3S 40-200/7.5	65	116	4	-	145	185	16	40	81	110	150	14	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	69,6
3S 50-125/3.0	65	116	4	-	145	185	16	50	96	125	165	16	292	132	160	145	32	100	70	190	138	240	254	548	142	246	15	-	160	200	40	220	12	-	PG16	PG13,5	42
3S 50-125/4.0	65	116	4	-	145	185	16	50	96	125	165	16	292	132	160	161	20	100	70	190	138	240	254	570	142	253	15	-	190	240	50	220	12	-	PG16	PG13,5	42,5
3S 50-160/5.5	65	116	4	-	145	185	16	50	96	125	165	16	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	63,8
3S 50-160/7.5	65	116	4	-	145	185	16	50	96	125	165	16	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	69,6
3S 50-200/9.2	65	116	4	-	145	185	16	50	96	125	165	16	360	160	200	205	28	100	70	212	139	265	300	673	165	314	15	-	216	266	50	270	12	-	PG21	PG21	79,7
3S 65-125/5.5	80	134	8	4	160	200	18	65	115	185	185	16	340	160	180	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	60
3S 65-125/7.5	80	134	8	4	160	200	18	65	115	185	185	16	340	160	180	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	67
3S 65-160/7.5	80	134	8	4	160	200	18	65	115	185	185	16	360	160	200	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	PG21	PG21	70
3S 65-160/9.2	80	134	8	4	160	200	18	65	115	185	185	16	360	160	200	198	28	100	95	212	149,5	280	300	673	165	314	15	-	216	266	50	270	12	-	PG21	PG21	77
3S 65-200/15	80	134	8	4	160	200	18	65	115	185	185	16	405	180	225	246	20	100	95	250	149,5	320	350	811	208	413	20	-	254	314	60	350	14	-	PG29	PG29	128
3S 65-200/18.5	80	134	8	4	160	200	18	65	115	185	185	16	405	180	225	246	20	100	95	250	149,5	320	350	855	208	413	20	-	254	314	60	350	14	-	PG29	PG29	141
3S 65-200/22	80	134	8	4	160	200	18	65	115	185	185	16	405	180	225	266	-	100	95	250	149,5	320	350	910	208	-	-	241	279	330	83	-	-	121	PG29	PG29	160

[1] Standard
[2] On request

3S (3LS) up to 80 size

2 POLES

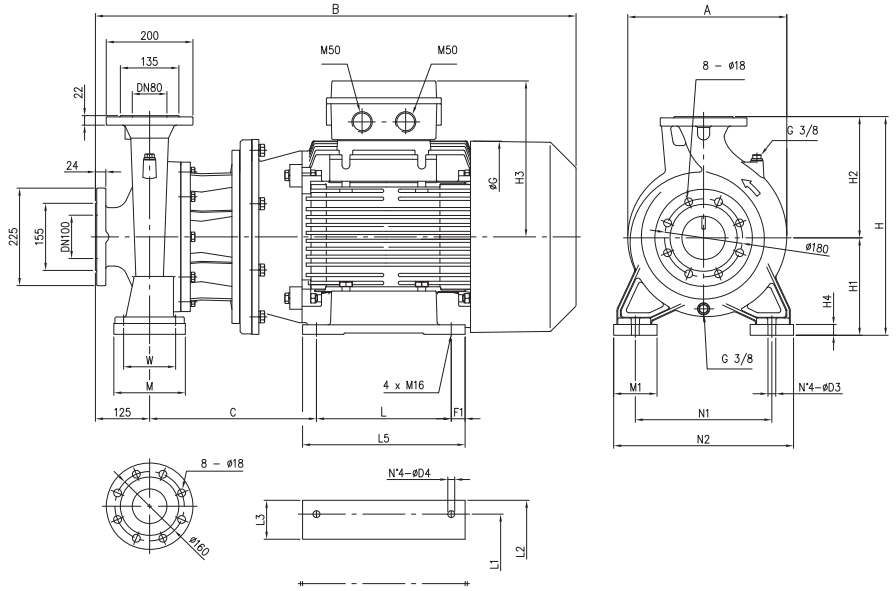


DIMENSIONAL TABLE

Pump type	Dimensions (mm)			Weight
	L	B	C	(kg)
3LS(.) 80-160/11	210	826	306	135
3LS(.) 80-160/15R	210	836	316	147
3LS(.) 80-160/15	210	836	316	147
3LS(.) 80-160/18.5	254	880	316	155

3S (3LS) up to 80 size

2 POLES



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																					Weight (kg)
	H	H1	H2	H3	H4	W	N1	N2	M	M1	L	L1	L2	L3	L5	A	B	C	F1	G	D3	D4	
3S 80-200/30	450	200	250	341	20	95	280	360	130	80	305	318	400	78	360	354	1002	341	27,5	393	14	22	306
3S 80-200/37	450	200	250	341	20	95	280	360	130	80	305	318	400	78	360	354	1002	341	27,5	393	14	22	325
3S 80-250/45	505	225	280	360	25	120	315	415	165	100	311	356	420	90	375	367	1109	385	32	442	18	16	401

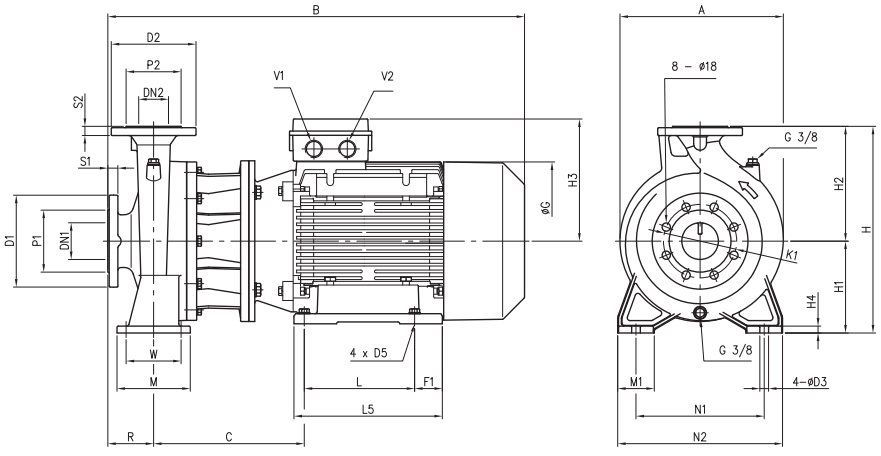


Fig. 1

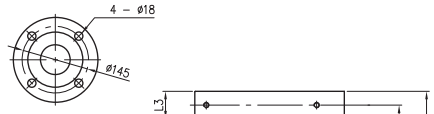
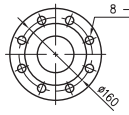


Fig. 2

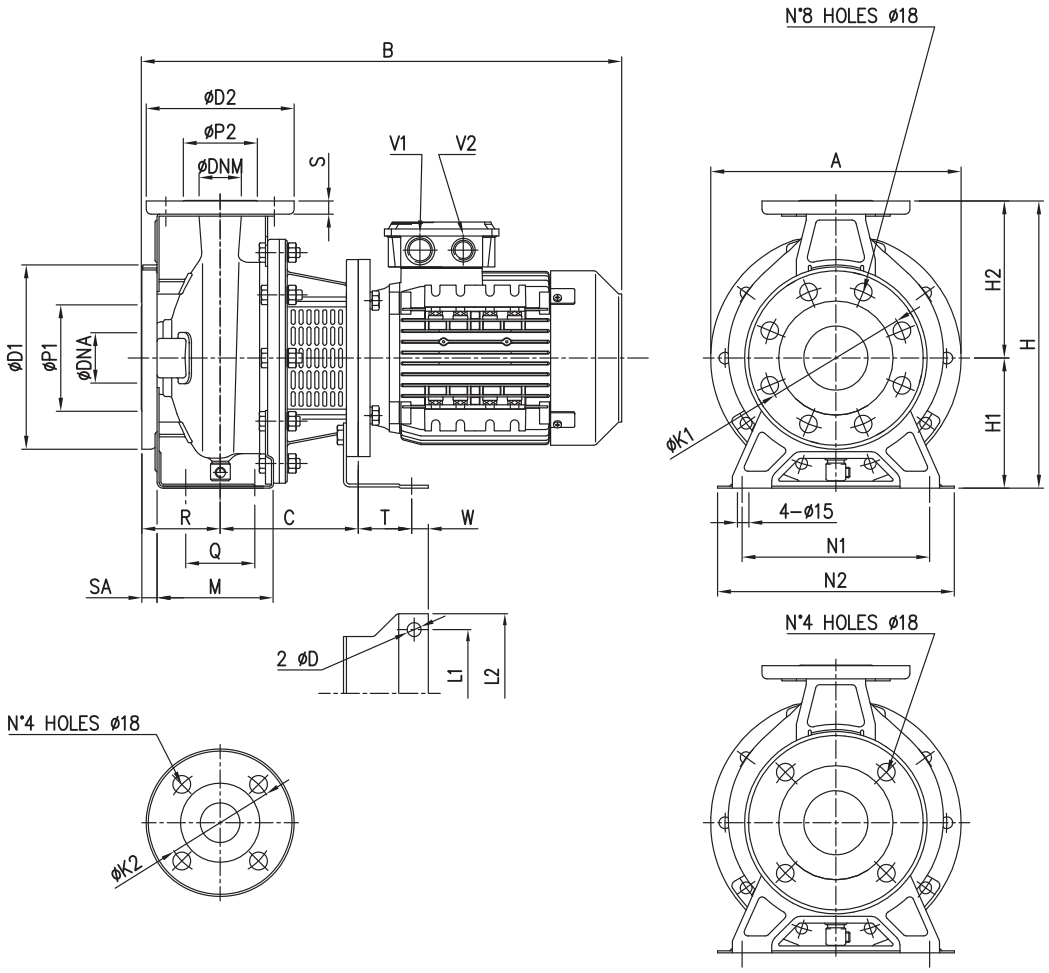


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																																		Weight (kg)
	DN1	P1	K1	D1	S1	DN2	Fig.	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	L	L1	L2	L3	L5	A	B	C	F1	G	D3	D5	V1	V2	
3LS(.) 65-250/30	80	135	160	200	22	65	1	120	185	20	450	200	250	341	15	100	120	280	360	160	80	305	318	400	78	360	357	977	341	27,5	393	19	M16	M50	M50	303
3LS(.) 65-250/37	80	135	160	200	22	65	1	120	185	20	450	200	250	341	15	100	120	280	360	160	80	305	318	400	78	360	357	977	341	27,5	393	19	M16	M50	M50	320
3LS(.) 80-200/22	100	155	180	225	24	80	2	135	200	22	430	180	250	266	13	125	95	280	345	125	65	241	279	330	66	324	354	935	329	60,5	345	15	M12	M40	M40	200
3LS(.) 80-250/37	100	155	180	225	24	80	2	135	200	22	480	200	280	341	15	125	120	315	400	160	80	305	318	400	78	360	367	1030	369	27,5	393	19	M16	M50	M50	335

3S4 (3LS4) up to 1,5 kW

4 POLES

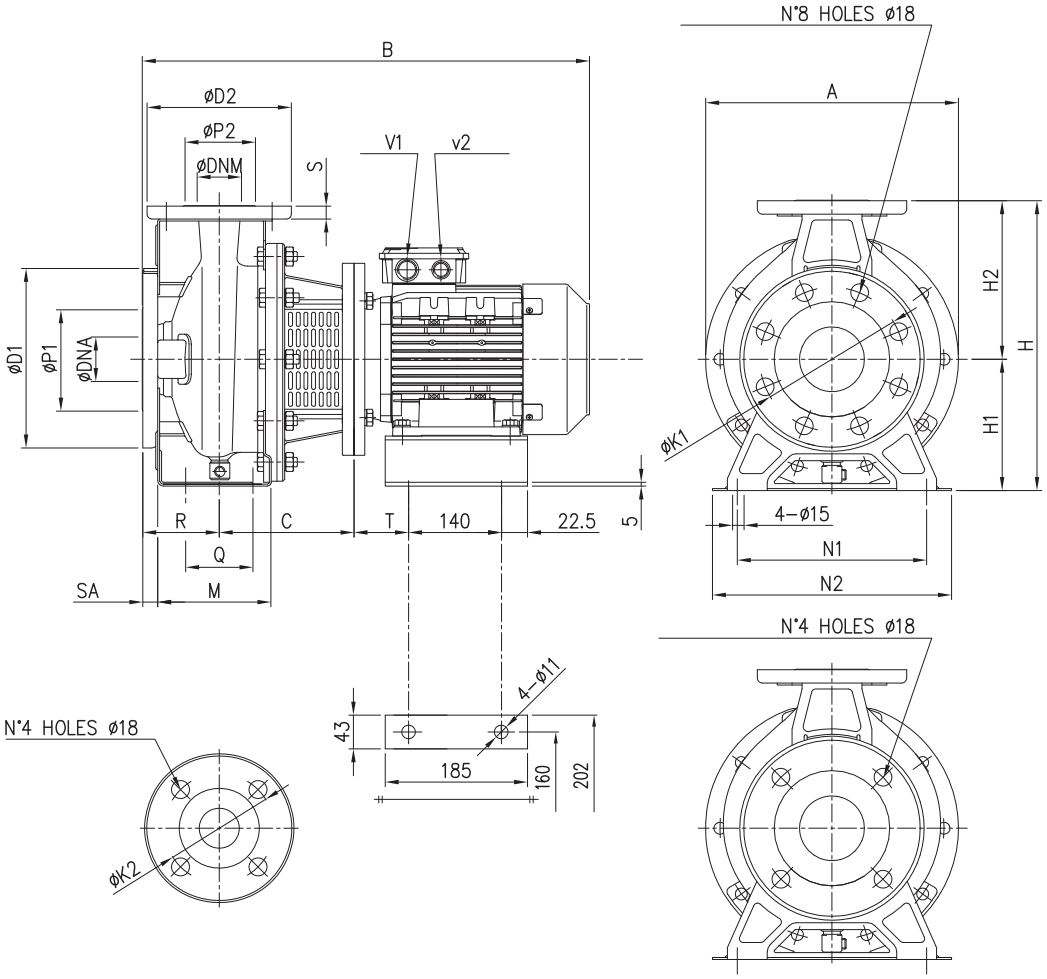


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																											N. Holes		Weight
	A	B	C	D	H	H1	H2	L1	L2	M	N1	N2	Q	R	S	T	W	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	SA	Ø DNA	Ø DNM	V1	V2	Standard	On request	(kg)
32-125/0.25	213	401	108	8	252	112	140	112	140	114	140	190	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13,5	4	-	15,5
32-160/0.37R	254	401	108	8	292	132	160	112	140	118	190	240	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13,5	4	-	20,7
32-160/0.37	254	401	108	8	292	132	160	112	140	118	190	240	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13,5	4	-	20,7
32-200/0.55R	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13,5	PG16	4	-	28,9
32-200/0.55	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13,5	PG16	4	-	28,9
32-200/0.75	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13,5	PG16	4	-	30,1
40-125/0.37R	213	401	118	8	252	112	140	112	140	114	160	210	70	80	14	45	15	185	145	116	150	110	81	16	65	40	PG11	PG13,5	4	-	17,6
40-125/0.37	213	401	118	8	252	112	140	112	140	114	160	210	70	80	14	45	15	185	145	116	150	110	81	16	65	40	PG11	PG13,5	4	-	17,6
40-160/0.55R	254	435	118	10	292	132	160	140	168	118	190	240	70	80	14	56	15	185	145	116	150	110	81	16	65	40	PG13,5	PG16	4	-	23,2
40-160/0.55	254	435	118	10	292	132	160	140	168	118	190	240	70	80	14	56	15	185	145	116	150	110	81	16	65	40	PG13,5	PG16	4	-	23,2
40-200/1.1R	294	487	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13,5	PG16	4	-	33,3
40-200/1.1	294	487	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13,5	PG16	4	-	33,3
40-200/1.5	294	512	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13,5	PG16	4	-	35,5
50-125/0.55R	254	452	118	10	292	132	160	140	168	138	190	240	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	23,5
50-125/0.55	254	452	118	10	292	132	160	140	168	138	190	240	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	23,5
50-160/1.1R	296	487	130	10	340	160	180	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	34,0
50-160/1.1	296	487	130	10	340	160	180	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	34,0
50-200/1.5R	296	512	130	10	360	160	200	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	30,0
50-200/1.5	296	512	130	10	360	160	200	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13,5	PG16	4	-	30,0
65-125/0.55	254	450	118	10	340	160	180	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	30,8
65-125/0.75	254	450	118	1	340	160	180	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	32
65-125/1.1	254	497	130	10	340	160	180	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	36
65-160/1.1	296	497	130	10	360	160	200	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	40,1
65-160/1.5	296	497	130	10	360	160	200	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	41,2

3S4 (3LS4) 2,2 ÷ 3kW

4 POLES

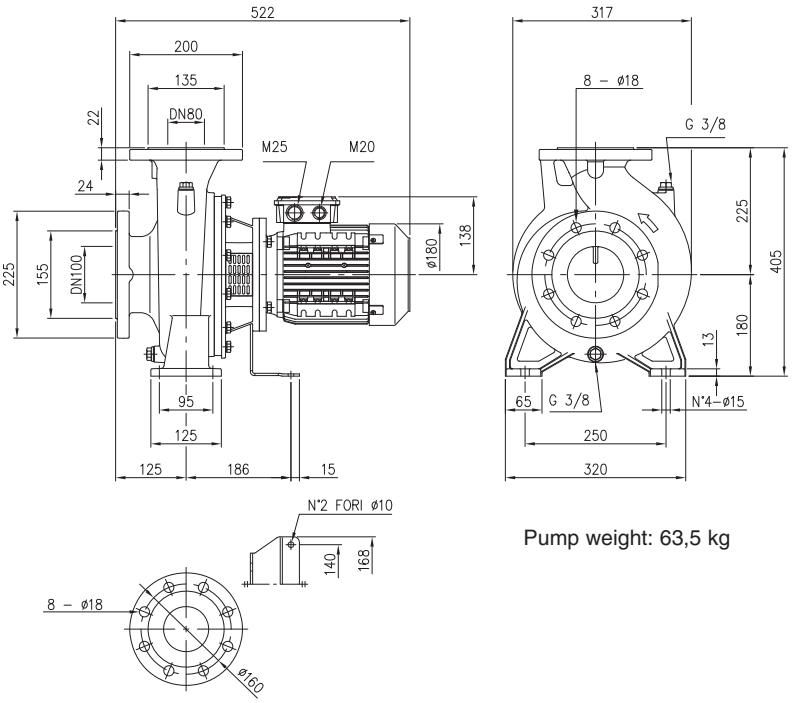


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																							No. Holes		Weight
	A	B	C	H	H1	H2	M	N1	N2	Q	R	S	T	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	SA	Ø DNA	Ø DNM	V1	V2	Standard	On request	(kg)
50-200/2.2	296	555	142	360	160	200	115	212	265	70	100	16	70	185	145	116	165	125	96	16	65	50	PG16	PG13,5	4	-	63,7
65-160/2.2	296	548	142	360	160	200	145	212	280	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	51,7
65-200/2.2R	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	52,8
65-200/2.2	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	53
65-200/3.0	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13,5	8	4	56,2

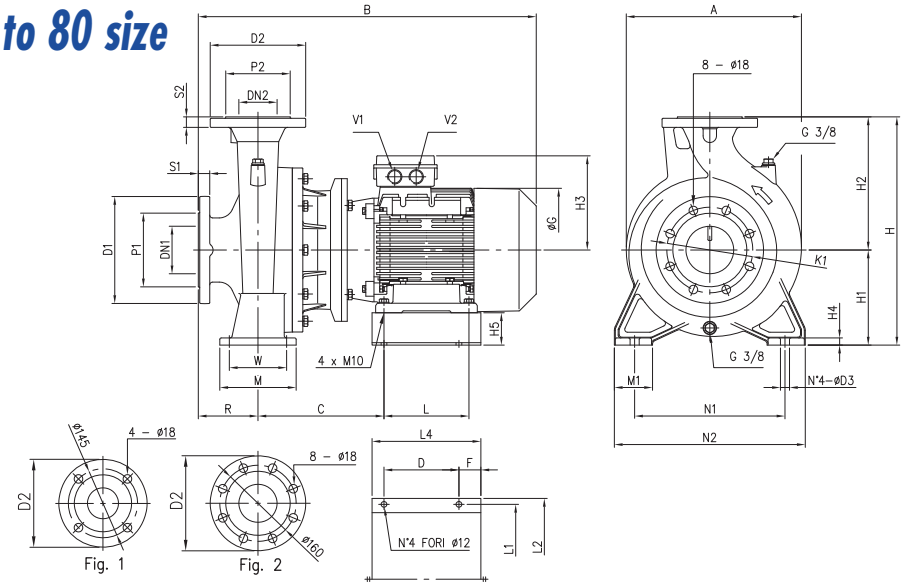
3LS4 80-160/1,5

4 POLES



Pump weight: 63,5 kg

3S4 (3LS4) up to 80 size

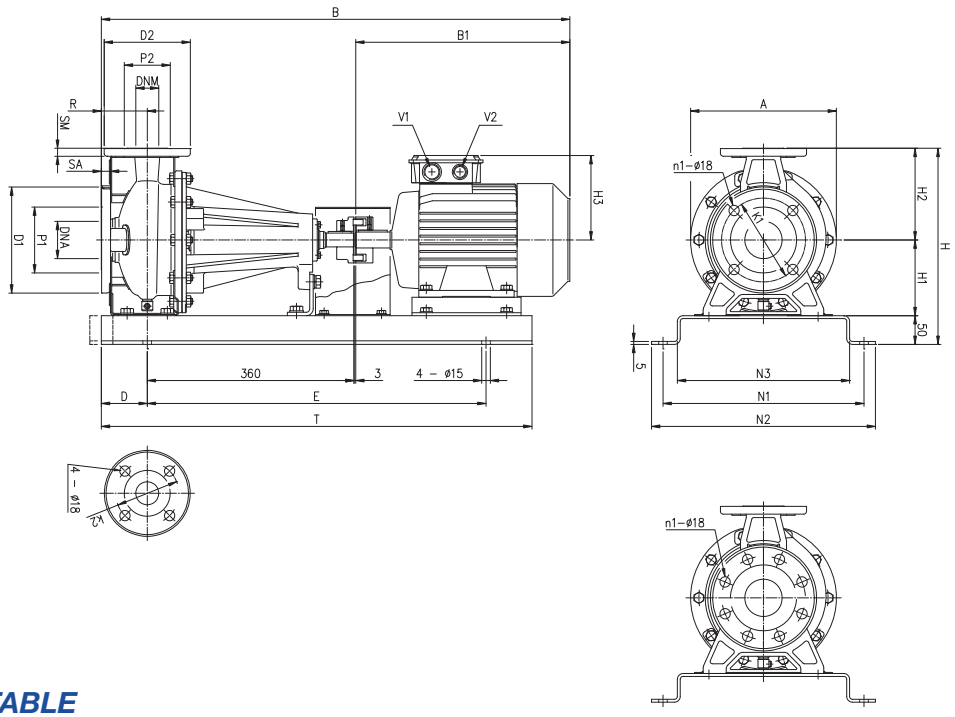


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																																Weight (kg)
	DN1	P1	K1	D1	S1	DN2	Fig.	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M	M1	L	L1	L2	L4	A	B	C	D	F	G	D3	V1	V2	
3LS4(.) 65-250/4	80	135	160	200	22	65	1	120	185	20	450	200	250	161	15	88	100	120	280	360	160	80	140	265	290	187	357	580	215	147	20	220	19	M25	M20	86
3LS4(.) 65-250/5.5	80	135	160	200	22	65	1	120	185	20	450	200	250	198	15	68	100	120	280	360	160	80	140	315	340	228	357	645	264	157	46	260	19	M32	M32	99,5
3LS4(.) 80-160/2.2R	100	155	180	225	24	80	2	135	200	22	405	180	225	145	13	80	125	95	250	320	125	65	140	250	275	190	317	573	205	140	25	196	15	M25	M20	69,5
3LS4(.) 80-200/2.2	100	155	180	225	24	80	2	135	200	22	405	180	225	145	13	80	125	95	250	320	125	65	140	250	275	190	317	573	205	140	25	196	15	M25	M20	70
3LS4(.) 80-200/3	100	155	180	225	24	80	2	135	200	22	430	180	250	145	13	80	125	95	280	345	125	65	140	250	275	190	354	583	215	140	25	196	15	M25	M20	81,5
3LS4(.) 80-200/4R	100	155	180	225	24	80	2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	140	315	340	228	354	605	198	157	46	220	15	M24	M20	89,5
3LS4(.) 80-200/4	100	155	180	225	24	80	2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	140	315	340	228	354	605	198	157	46	220	15	M25	M20	90
3LS4(.) 80-250/5.5R	100	155	180	225	24	80	2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	140	315	340	228	367	670	264	157	46	260	19	M32	M32	104
3LS4(.) 80-250/5.5	100	155	180	225	24	80	2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	140	315	340	228	367	670	264	157	46	260	19	M32	M32	104,5
3LS4(.) 80-250/7.5	100	155	180	225	24	80	2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	178	315	340	228	367	708	264	157	46	260	19	M32	M32	109,5

3P (3LP) up to 65 size

2 POLES



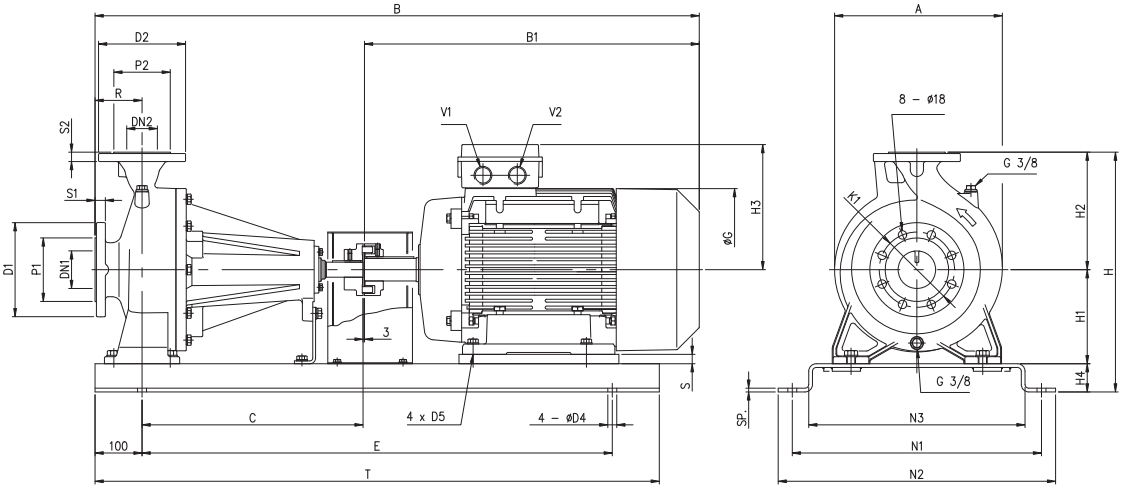
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																													Weight (kg)
	Ø DNA	Ø P1	n1 [1]	n1 [2]	Ø K1	Ø D1	SA	Ø DNM	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3 [3]	H3 [4]	R	A	B	B1	D	E	N1	N2	N3	T	V1	V2	
3P 32-125/1.1 (M)	50	95	4	-	125	165	16	32	75	100	140	14	302	112	140	129	150	80	213	715	272	80	550	300	340	250	710	PG16	PG13,5	43,5
3P 32-160/1.5 (M)	50	95	4	-	125	165	16	32	75	100	140	14	342	132	160	138	160	80	254	760	317	80	590	350	390	300	750	PG16	PG13,5	51
3P 32-160/2.2 (M)	50	95	4	-	125	165	16	32	75	100	140	14	342	132	160	138	160	80	254	760	317	80	590	350	390	300	750	PG16	PG13,5	53,5
3P 32-200/3	50	95	4	-	125	165	16	32	75	100	140	14	390	160	180	145	-	80	296	809	366	80	590	350	390	300	750	PG16	PG13,5	68
3P 32-200/4	50	95	4	-	125	165	16	32	75	100	140	14	390	160	180	161	-	80	296	831	388	80	590	350	390	300	750	PG16	PG13,5	72
3P 32-200/5.5	50	95	4	-	125	165	16	32	75	100	140	14	390	160	180	198	-	80	296	893	450	100	650	350	390	300	850	PG21	PG21	88
3P 32-200/7.5	50	95	4	-	125	165	16	32	75	100	140	14	390	160	180	198	-	80	296	893	450	100	650	350	390	300	850	PG21	PG21	99,8
3P 40-125/1.5 (M)	65	115	4	-	145	185	16	40	80	110	150	14	302	112	140	138	160	80	213	760	317	80	550	300	340	250	710	PG16	PG13,5	48,5
3P 40-125/2.2 (M)	65	115	4	-	145	185	16	40	80	110	150	14	302	112	140	138	160	80	213	760	317	80	550	300	340	250	710	PG16	PG13,5	51
3P 40-160/3	65	115	4	-	145	185	16	40	80	110	150	14	342	132	160	145	-	80	254	809	366	80	590	350	390	300	750	PG16	PG13,5	77,5
3P 40-160/4	65	115	4	-	145	185	16	40	80	110	150	14	342	132	160	161	-	80	254	831	388	80	590	350	390	300	750	PG16	PG13,5	64,5
3P 40-200/5.5	65	115	4	-	145	185	16	40	80	110	150	14	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	PG21	PG21	89
3P 40-200/7.5	65	115	4	-	145	185	16	40	80	110	150	14	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	PG21	PG21	94,5
3P 40-200/11	65	115	4	-	145	185	16	40	80	110	150	14	390	160	180	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	117
3P 50-125/2.2 (M)	65	115	4	-	145	185	16	50	95	125	165	16	342	132	160	138	160	100	254	780	317	80	590	350	390	300	750	PG16	PG13,5	75
3P 50-125/3	65	115	4	-	145	185	16	50	95	125	165	16	342	132	160	145	-	100	254	829	366	80	590	350	390	300	750	PG16	PG13,5	79
3P 50-125/4	65	115	4	-	145	185	16	50	95	125	165	16	342	132	160	161	-	100	254	851	388	80	590	350	390	300	750	PG16	PG13,5	81,5
3P 50-160/5.5	65	115	4	-	145	185	16	50	95	125	165	16	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	PG21	PG21	89
3P 50-160/7.5	65	115	4	-	145	185	16	50	95	125	165	16	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	PG21	PG21	94,5
3P 50-200/9.2	65	115	4	-	145	185	16	50	95	125	165	16	410	160	200	198	-	100	296	951	488	100	650	350	390	300	850	PG21	PG21	100
3P 50-200/11	65	115	4	-	145	185	16	50	95	125	165	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	117,5
3P 50-200/15	65	115	4	-	145	185	16	50	95	125	165	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	125,4
3P 65-125/4	80	134	8	4	160	200	18	65	115	145	185	16	390	160	180	161	-	100	254	851	388	80	590	350	390	300	750	PG16	PG13,5	82
3P 65-1252/5.5	80	134	8	4	160	200	18	65	115	145	185	16	390	160	180	198	-	100	254	913	450	100	650	350	390	300	850	PG21	PG21	90
3P 65-125/7.5	80	134	8	4	160	200	18	65	115	145	185	16	390	160	180	198	-	100	254	913	450	100	650	350	390	300	850	PG21	PG21	97
3P 65-160/7.5	80	134	8	4	160	200	18	65	115	145	185	16	410	160	200	198	-	100	296	913	450	100	650	350	390	300	850	PG21	PG21	103
3P 65-160/9.2	80	134	8	4	160	200	18	65	115	145	185	16	410	160	200	198	-	100	296	951	450	100	650	350	390	300	850	PG21	PG21	107
3P 65-160/11	80	134	8	4	160	200	18	65	115	145	185	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	114
3P 65-160/15	80	134	8	4	160	200	18	65	115	145	185	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	119
3P 65-200/15	80	134	8	4	160	200	18	65	115	145	185	16	455	180	225	246	-	100	296	1076	613	100	800	380	420	330	1000	PG29	PG29	127
3P 65-200/18.5	80	134	8	4	160	200	18	65	115	145	185	16	455	180	225	246	-	100	296	1120	657	100	800	380	420	330	1000	PG29	PG29	139
3P 65-200/22	80	134	8	4	160	200	18	65	115	145	185	16	455	180	225	266	-	100	296	1175	712	100	800	410	450	360	1000	PG29	PG29	182

[1] Standard
[2] On request
[3] Only for three phase
[4] Only for single phase

3P (3LP) up to 65 size

2 POLES



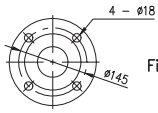


Fig. 1

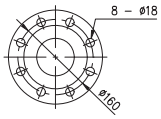
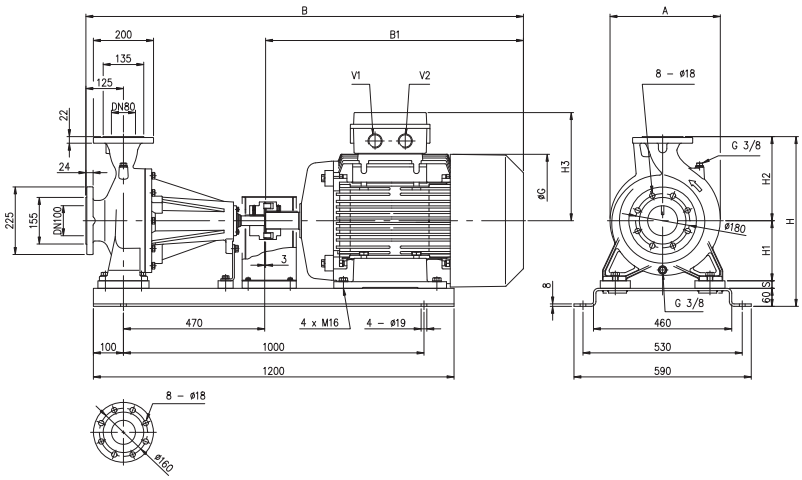


Fig. 2

DIMENSIONAL TABLE

Pump type	Dimensions (mm)																													Weight (kg)
	DN1	P1	D1	S1	DN2	Fig.	P2	D2	S2	H	H1	H2	H3	H4	R	N1	N2	N3	A	B	B1	C	G	E	T	S	D4	D5	Sp.	V1	V2	
3LP(.) 65-250/30	80	135	200	22	65	1	120	185	20	510	200	250	341	60	100	530	590	460	357	1352	779	470	405	1000	1200	-	19	M16	8	M50	M50	354
3LP(.) 65-250/37	80	135	200	22	65	1	120	185	20	510	200	250	341	60	100	530	590	460	357	1352	779	470	405	1000	1200	-	19	M16	8	M50	M50	373
3LP(.) 80-160/11	100	155	225	24	80	2	135	200	22	455	180	225	246	50	125	380	420	330	317	1101	613	360	335	800	1000	20	15	M12	5	M40	M40	164
3LP(.) 80-160/15R	100	155	225	24	80	2	135	200	22	455	180	225	246	50	125	380	420	330	317	1101	613	360	335	800	1000	20	15	M12	5	M40	M40	176
3LP(.) 80-160/15	100	155	225	24	80	2	135	200	22	455	180	225	246	50	125	380	420	330	317	1101	613	360	335	800	1000	20	15	M12	5	M40	M40	176
3LP(.) 80-160/18.5	100	155	225	24	80	2	135	200	22	455	180	255	246	50	125	380	420	330	317	1145	657	360	335	800	1000	20	15	M12	5	M40	M40	185
3LP(.) 80-200/22	100	155	225	24	80	2	135	200	22	490	180	250	266	60	125	530	590	460	354	1310	712	470	366	1000	1200	-	19	M12	8	M40	M40	252
3LP(.) 80-250/37	100	155	225	24	80	2	135	200	22	540	200	280	341	60	125	530	590	460	367	1377	779	470	405	1000	1200	-	19	M16	8	M50	M50	377

3P (3LP)

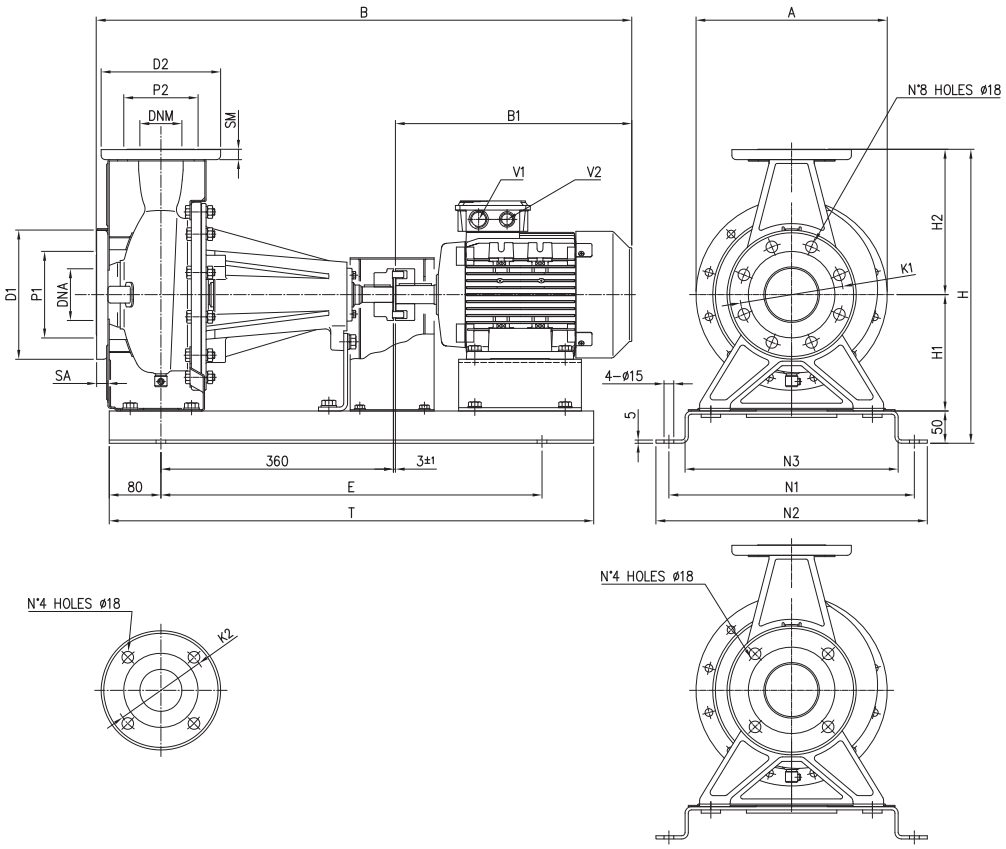


DIMENSIONAL TABLE

Pump type	Dimensions (mm)											Weight (kg)
	H	H1	H2	H3	A	B	B1	G	S	V1	V2	
3P 80-220/30	510	180	250	341	357	1377	779	405	20	M50	M50	356
3P 80-200/37	510	180	250	341	357	1377	779	405	20	M50	M50	365
3P 80-250/45	565	200	280	360	367	1456	858	463	25	M50	M50	440

3P4 (3LP4) up to 65 size

4 POLES

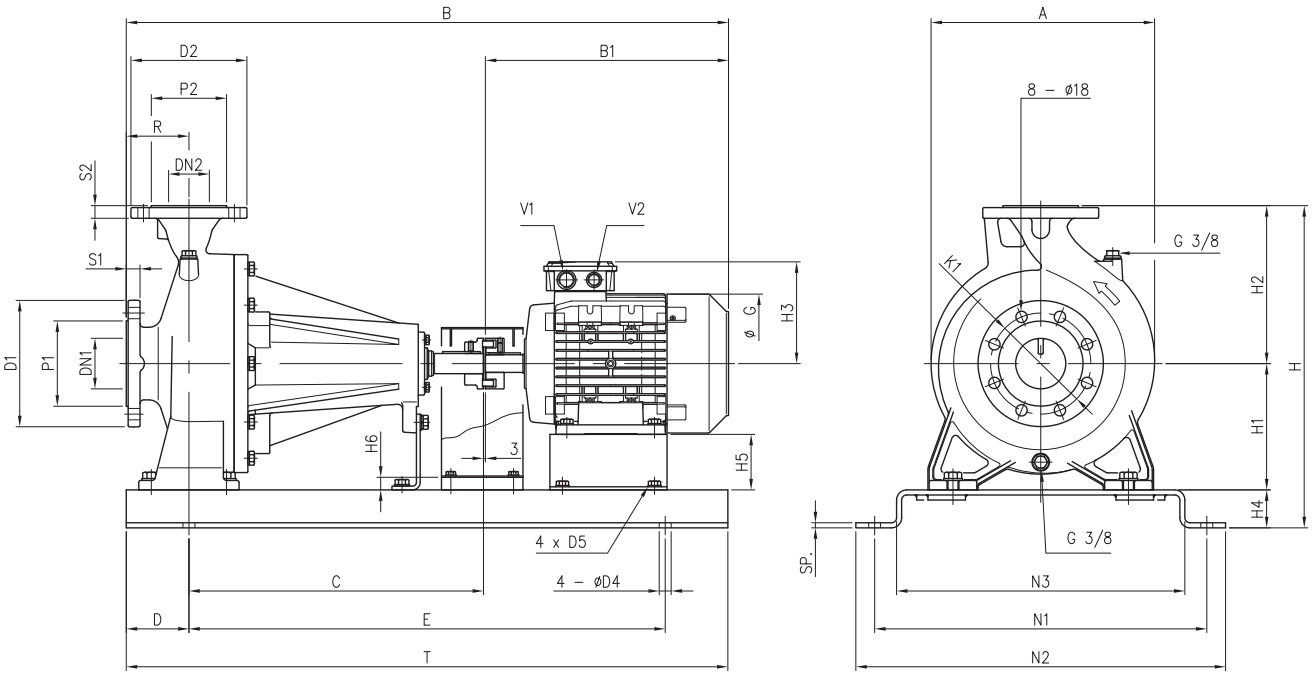


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																						N. Holes		Weight
	A	B	E	H	H1	H2	N1	N2	N3	B1	T	SA	SM	V1	V2	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	Ø DNA	Ø DNM	Standard	On request	(kg)
32-125/0.25	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13,5	165	125	95	140	100	75	50	32	4	-	37,0
32-160/0.37R	254	683	510	342	132	160	350	390	300	240	670	16	14	PG11	PG13,5	165	125	95	140	100	75	50	32	4	-	41,0
32-160/0.37	254	683	510	342	132	160	350	390	300	240	670	16	14	PG11	PG13,5	165	125	95	140	100	75	50	32	4	-	41,0
32-200/0.55R	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13,5	PG16	165	125	95	140	100	75	50	32	4	-	53,5
32-200/0.55	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13,5	PG16	165	125	95	140	100	75	50	32	4	-	53,5
32-200/0.75	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13,5	PG16	165	125	95	140	100	75	50	32	4	-	54,5
40-125/0.37R	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13,5	185	145	115	150	110	80	65	40	4	-	46,5
40-125/0.37	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13,5	185	145	115	150	110	80	65	40	4	-	46,5
40-160/0.55R	254	717	510	342	132	160	350	390	300	274	670	16	14	PG13,5	PG16	185	145	115	150	110	80	65	40	4	-	44,5
40-160/0.55	254	717	510	342	132	160	350	390	300	274	670	16	14	PG13,5	PG16	185	145	115	150	110	80	65	40	4	-	44,5
40-200/1.1R	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13,5	PG16	185	145	115	150	110	80	65	40	4	-	61,5
40-200/1.1	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13,5	PG16	185	145	115	150	110	80	65	40	4	-	61,5
40-200/1.5	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13,5	PG16	185	145	115	150	110	80	65	40	4	-	64,0
50-125/0.55R	254	737	510	342	132	160	350	390	300	274	670	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	45,0
50-125/0.55	254	737	510	342	132	160	350	390	300	274	670	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	45,0
50-160/1.1R	296	795	590	390	160	180	350	390	300	332	750	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	52,5
50-160/1.1	296	795	590	390	160	180	350	390	300	332	750	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	52,5
50-200/1.5R	296	795	590	410	160	200	350	390	300	332	750	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	64,0
50-200/1.5	296	795	590	410	160	200	350	390	300	332	750	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	64,0
50-200/2.2	296	863	590	410	160	200	350	390	300	400	750	16	16	PG13,5	PG16	185	145	115	165	125	95	65	50	4	-	70
65-125/0.55	254	735	510	390	160	180	350	390	300	272	670	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	48,6
65-125/0.75	254	735	510	390	160	180	350	390	300	272	670	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	49,8
65-125/1.1	254	780	590	390	160	180	350	390	300	317	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	56,1
65-160/1.1	296	780	590	410	160	200	350	390	300	317	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	62,6
65-160/1.5	296	780	590	410	160	200	350	390	300	317	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	63,7
65-160/2.2	296	829	590	410	160	200	350	390	300	366	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	71,5
65-200/2.2R	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	74,1
65-200/2.2	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	74,2
65-200/3.0	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13,5	200	160	134	185	145	115	80	80	8	4	77,5

3P4 (3LP4) up to 80 size

4 POLES



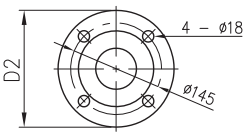


Fig. 1

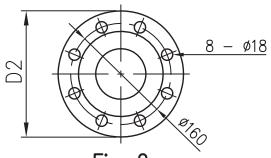


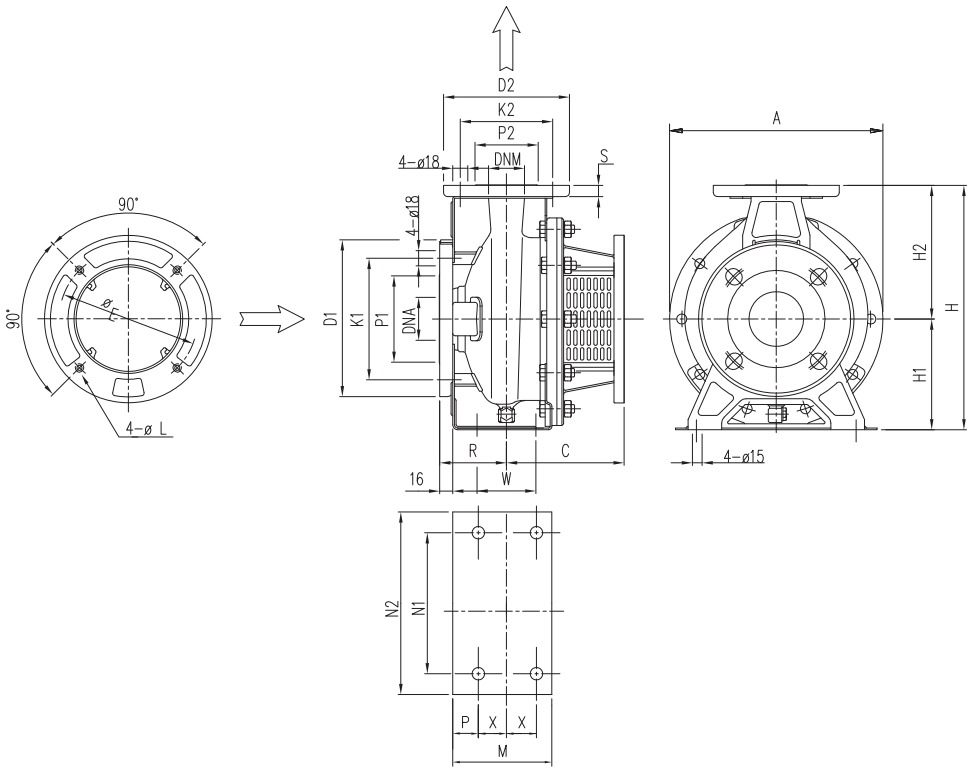
Fig. 2

DIMENSIONAL TABLE

Pump type	Dimensions (mm)																														Weight (kg)
	DN1	P1	D1	S1	DN2	Fig.	P2	D2	S2	H	H1	H2	H3	H4	H5	H6	R	N1	N2	N3	A	B	B1	C	D	G	E	T	D4	D5	Sp.	V1	V2	
3LP4(.) 65-250/4	80	135	200	22	65	1	120	185	20	510	200	250	161	60	88	20	100	510	570	440	357	961	388	470	100	225	760	960	19	M10	8	M25	M20	113,5
3LP4(.) 65-250/5.5	80	135	200	22	65	1	120	185	20	510	200	250	198	60	68	-	100	510	570	440	357	1023	450	470	100	270	760	960	19	M10	8	M32	M32	130
3LP4(.) 80-160/1.5	100	155	225	24	80	2	135	200	22	455	180	225	138	50	90	20	125	380	420	330	317	805	317	360	80	180	590	750	15	M8	5	M25	M20	80
3LP4(.) 80-160/2.2R	100	155	225	24	80	2	135	200	22	455	180	225	145	50	80	-	125	380	420	330	317	854	366	360	80	196	590	750	15	M10	5	M25	M20	86
3LP4(.) 80-160/2.2	100	155	225	24	80	2	135	200	22	455	180	225	145	50	80	-	125	380	420	330	317	854	366	360	80	196	590	750	15	M10	5	M25	M20	100,5
3LP4(.) 80-200/3	100	155	225	24	80	2	135	200	22	490	180	250	145	60	80	-	125	460	520	390	354	964	366	470	100	196	700	900	19	M10	8	M25	M20	109,5
3LP4(.) 80-200/4R	100	155	225	24	80	2	135	200	22	490	180	250	161	60	68	-	125	460	520	390	354	986	388	470	100	225	700	900	19	M10	8	M25	M20	116,5
3LP4(.) 80-200/4	100	155	225	24	80	2	135	200	22	490	180	250	161	60	68	-	125	460	520	390	354	986	388	470	100	225	700	900	19	M10	8	M25	M20	117
3LP4(.) 80-250/5.5R	100	155	225	24	80	2	135	200	22	540	200	280	198	60	68	-	125	510	570	440	367	1048	450	470	100	270	760	960	19	M10	8	M32	M32	134
3LP4(.) 80-250/5.5	100	155	225	24	80	2	135	200	22	540	200	280	198	60	68	-	125	510	570	440	367	1048	450	470	100	270	760	960	19	M10	8	M32	M32	134,5
3LP4(.) 80-250/7.5	100	155	225	24	80	2	135	200	22	540	200	280	198	60	68	-	125	510	570	440	367	1086	488	470	100	270	760	960	19	M10	8	M32	M32	143,5

3SF (3LSF)

2 POLES

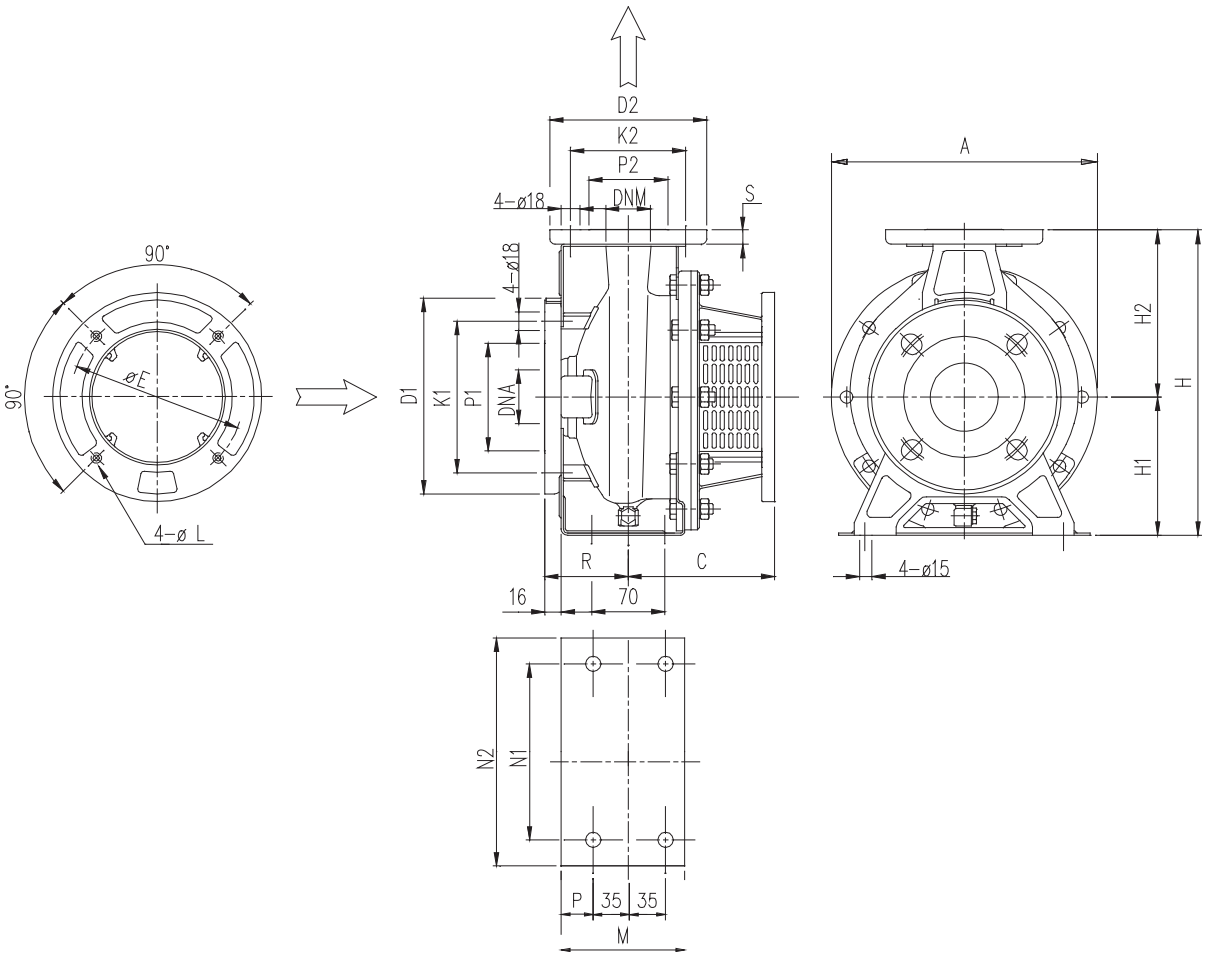


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																						
	A	C	E	H	H1	H2	L	M	N1	N2	P	R	S	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	Ø DNA	Ø DNM	X	W
32-125/N	213	118	165	252	112	140	M10	114	140	190	29	80	14	165	125	96	140	100	76	50	32	35	70
32-160/R	254	130	165	292	132	160	M10	118	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
32-160/N	254	130	165	292	132	160	M10	118	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
32-200/R	294	142	215	340	160	180	M12	119	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
32-200/N	294	142	215	340	160	180	M12	119	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
32-200/L	294	165	265	340	160	180	M12	119	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
32-200/EL	294	165	265	340	112	180	M12	119	190	240	29	80	14	165	125	96	140	100	76	50	32	35	70
40-125/R	213	130	165	252	112	140	M10	114	160	210	29	80	14	185	145	116	150	110	81	65	40	35	70
40-125/N	213	130	165	252	132	140	M10	114	160	210	29	80	14	185	145	116	150	110	81	65	40	35	70
40-160/R	254	142	215	292	132	160	M12	118	190	240	29	80	14	185	145	116	150	110	81	65	40	35	70
40-160/N	254	142	215	292	160	160	M12	118	190	240	29	80	14	185	145	116	150	110	81	65	40	35	70
40-200/R	294	165	265	340	160	180	M12	115	212	265	25	80	14	185	145	116	150	110	81	65	40	35	70
40-200/N	294	165	265	340	160	180	M12	115	212	265	25	100	14	185	145	116	150	110	81	65	40	35	70
40-200/L	350	198	300	340	132	180	M16	115	212	265	25	100	14	185	145	116	150	110	81	65	40	35	70
50-125/S	254	142	215	292	132	160	M12	114	190	240	25	100	16	185	145	116	165	125	96	65	50	35	70
50-125/R	254	142	215	292	132	160	M12	114	190	240	25	100	16	185	145	116	165	125	96	65	50	35	70
50-125/N	254	142	215	292	160	160	M12	114	190	240	25	100	16	185	145	116	165	125	96	65	50	35	70
50-160/R	296	165	265	340	160	180	M12	115	115	212	25	100	16	185	145	116	165	125	96	65	50	35	70
50-160/N	296	165	265	340	160	180	M12	115	115	212	25	100	16	185	145	116	165	125	96	65	50	35	70
50-200/R	296	165	265	360	160	200	M12	115	212	265	25	390	16	185	145	116	165	125	96	65	50	35	7
50-200/N	350	198	300	360	160	200	M16	115	212	265	25	390	16	185	145	116	165	125	96	65	50	35	70
50-200/L	350	198	300	360	160	200	M16	115	212	265	25	390	16	185	145	116	165	125	96	65	50	35	70
65-125/R	254	142	215	340	160	180	M12	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-125/N	300	165	265	340	160	180	M12	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-125/L	300	165	265	340	160	180	M12	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-160/S	300	165	265	360	160	200	M12	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-160/R	300	165	265	360	160	200	M12	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-160/N	350	198	300	360	160	200	M16	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-160/L	350	208	300	360	160	200	M16	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-200/R	350	208	300	405	225	180	M16	150	212	320	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-200/N	350	208	300	405	225	180	M16	150	212	320	35	100	16	200	160	134	185	145	115	80	65	47,5	95
65-200/L	350	208	300	405	225	180	M16	150	212	320	35	100	16	200	160	134	185	145	115	80	65	47,5	95

3SF4 - 3LSF4

4 POLES

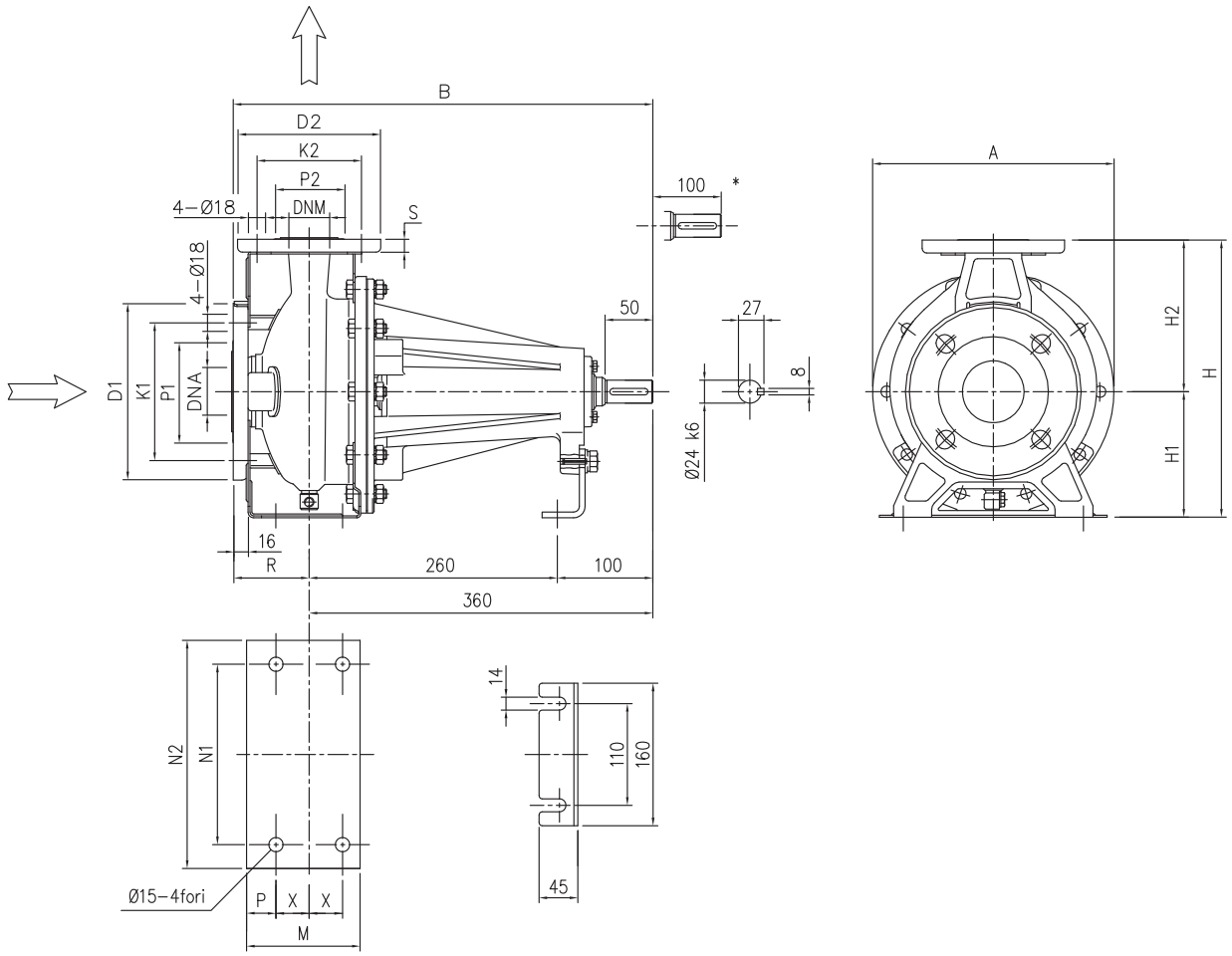


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																				
	A	C	E	H	H1	H2	L	M	N1	N2	P	R	S	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	Ø DNA	Ø DNM
32-125/N	213	108	130	252	112	140	M8	114	140	190	29	80	14	165	125	96	140	100	76	50	32
32-160/R	254	108	130	292	132	160	M8	118	190	240	29	80	14	165	125	96	140	100	76	50	32
32-160/N	254	108	130	292	132	160	M8	118	190	240	29	80	14	165	125	96	140	100	76	50	32
32-200/R	296	118	165	340	160	180	M10	119	190	240	29	80	14	165	125	96	140	100	76	50	32
32-200/N	296	118	165	340	160	180	M10	119	190	240	29	80	14	165	125	96	140	100	76	50	32
32-200/L	296	118	165	340	160	180	M10	119	190	240	29	80	14	165	125	96	140	100	76	50	32
40-125/R	213	118	130	252	112	140	M8	114	160	210	29	80	14	185	145	116	150	110	81	65	40
40-125/N	213	118	130	252	112	140	M8	114	160	210	29	80	14	185	145	116	150	110	81	65	40
40-160/R	254	118	165	292	132	160	M10	118	190	240	29	80	14	185	145	116	150	110	81	65	40
40-160/N	254	118	165	292	132	160	M10	118	190	240	29	80	14	185	145	116	150	110	81	65	40
40-200/R	294	130	165	340	160	180	M10	115	212	265	25	100	14	185	145	116	150	110	81	65	40
40-200/N	294	130	165	340	160	180	M10	115	212	265	25	100	14	185	145	116	150	110	81	65	40
40-200/L	294	130	165	340	160	180	M10	115	212	265	25	100	14	185	145	116	150	110	81	65	40
50-125/R	254	118	165	292	132	160	M10	114	190	240	25	100	16	185	145	116	165	125	96	65	50
50-125/N	254	118	165	292	132	160	M10	114	190	240	25	100	16	185	145	116	165	125	96	65	50
50-160/R	296	130	165	340	160	180	M10	115	115	212	25	100	16	185	145	116	165	125	96	65	50
50-160/N	296	130	165	340	160	180	M10	115	115	212	25	100	16	185	145	116	165	125	96	65	50
50-200/R	296	130	165	360	160	200	M10	115	212	265	25	100	16	185	145	116	165	125	96	65	50
50-200/N	296	130	165	360	160	200	M10	115	212	265	25	100	16	185	145	116	165	125	96	65	50
50-200/L	296	130	215	360	160	200	M12	115	212	265	25	100	16	185	145	116	165	125	96	65	50

3(L)PF

2 POLES



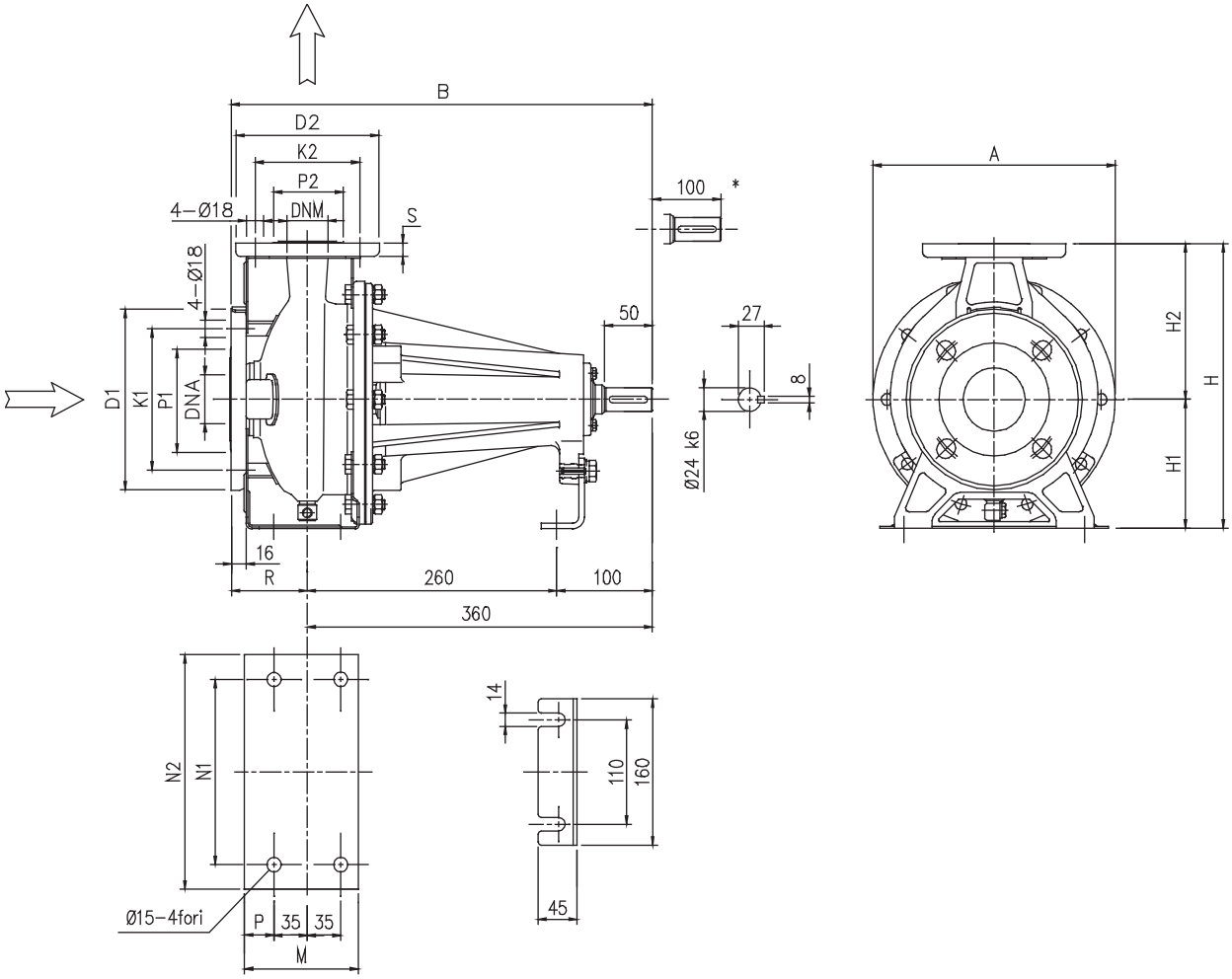
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																			
	A	C	H	H1	H2	M	N1	N2	P	R	S	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	Ø DNA	Ø DNM	X
32-125	213	440	252	112	140	114	140	190	29	80	14	165	125	95	140	100	75	50	32	35
32-160	254	440	292	132	160	118	190	240	29	80	14	165	125	95	140	100	75	50	32	35
32-200	296	440	340	160	180	119	190	240	29	80	14	165	125	95	140	100	75	50	32	35
40-125	213	440	252	112	140	114	160	210	29	80	14	185	145	115	150	110	80	65	40	35
40-160	254	440	292	132	160	118	190	240	29	80	14	185	145	115	150	110	80	65	40	35
40-200	296	460	340	160	180	115	212	265	25	100	14	185	145	115	150	110	80	65	40	35
50-125	254	460	292	132	160	114	190	240	25	100	14	185	145	115	165	125	95	65	50	35
50-160	296	460	340	160	180	115	212	265	25	100	16	185	145	115	165	125	95	65	50	35
50-200	296	460	360	160	200	115	212	265	25	100	16	185	145	115	165	125	95	65	50	35
65-125	254	460	340	160	180	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5
65-160	296	460	360	160	200	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5
65-200	296	460	405	180	225	150	212	280	35	100	16	200	160	134	185	145	115	80	65	47,5

* Space where it is possible to disassemble the pump with coupling spacer without disassembling the motor.

3(L)PF4

4 POLES

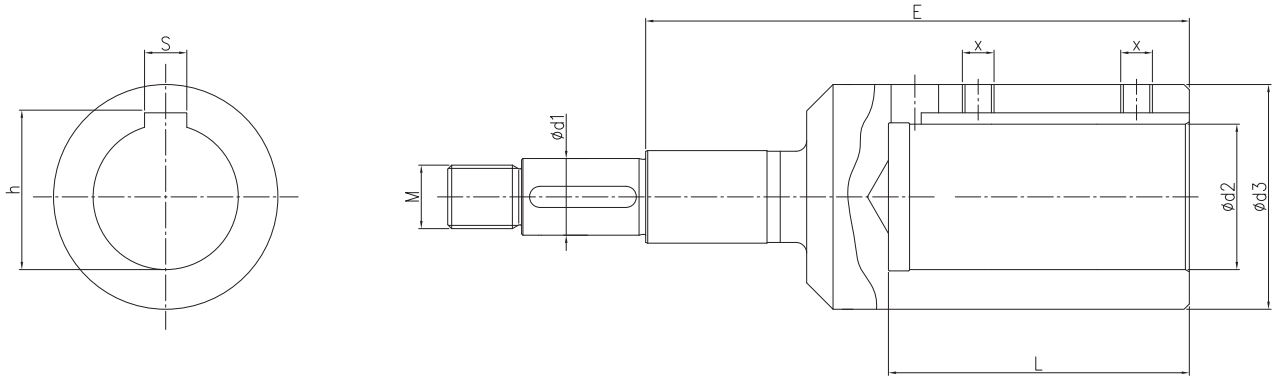


DIMENSIONAL TABLE

Pump type	Dimensions (mm)																		
	A	B	H	H1	H2	M	N1	N2	P	R	S	Ø D1	Ø K1	Ø P1	Ø D2	Ø K2	Ø P2	Ø DNA	Ø DNM
32-125	213	440	252	112	140	114	140	190	29	80	14	165	125	95	140	100	75	50	32
32-160	254	440	292	132	160	118	190	240	29	80	14	165	125	95	140	100	75	50	32
32-200	296	440	340	160	180	119	190	240	29	80	14	165	125	95	140	100	75	50	32
40-125	213	440	252	112	140	114	160	210	29	80	14	185	145	115	150	110	80	65	40
40-160	254	440	292	132	160	118	190	240	29	80	14	185	145	115	150	110	80	65	40
40-200	296	460	340	160	180	115	212	265	25	100	14	185	145	115	150	110	80	65	40
50-125	254	460	292	132	160	114	190	240	25	100	16	185	145	115	165	125	95	65	50
50-160	296	460	340	160	180	115	212	265	25	100	16	185	145	115	165	125	95	65	50
50-200	296	460	360	160	200	115	212	265	25	100	16	185	145	115	165	125	95	65	50

* Space where it is possible to disassemble the pump with coupling spacer without disassembling the motor.

3S (3LS) Series coupling



DIMENSIONAL TABLE up to 65 size

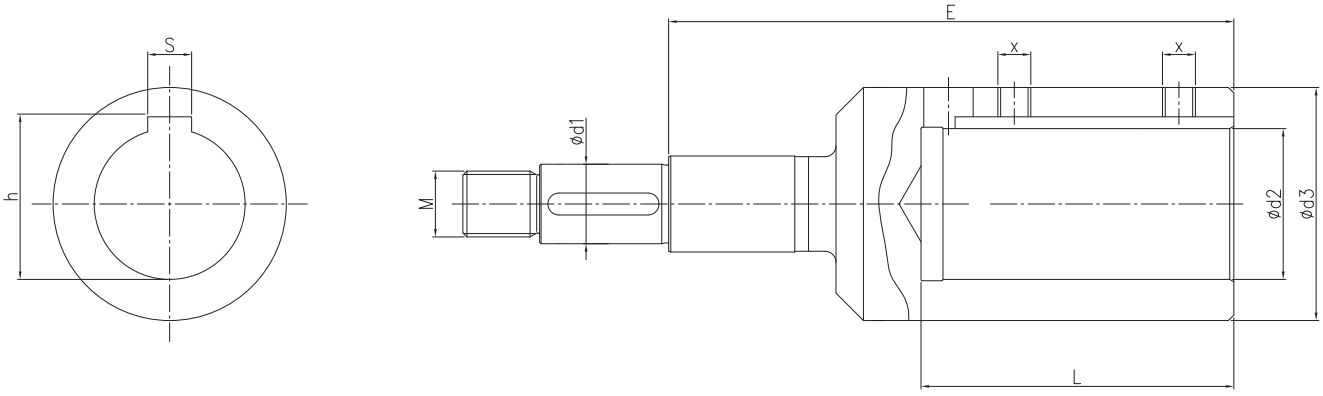
Pump type	kW	HP	Motor Size	Motor Type	Dimensions (mm) d1	d2	d3	L3	M	X Size	X Standard	h	S	E
32-125/1.1	1,1	1,5	80	B5	19	19	33	43	16 x 1,5	M 6 x 6	UNI 5929	21,8	6	98
32-160/1.5	1,5	2	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
32-160/2.2	2,2	3	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
32-200/3.0	3	4	100	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
32-200/4.0	4	5,5	112	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
32-200/5.5	5,5	7,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
32-200/7.5	7,5	10	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
40-125/1.5	1,5	2	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
40-125/2.2	2,2	3	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
40-160/3.0	3	4	100	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
40-160/4.0	4	5,5	112	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
40-200/5.5	5,5	7,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
40-200/7.5	7,5	10	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
40-200/11	11	15	160	B35	19	42	63	114	16 x 1,5	M 8 x 8	UNI 5929	45,3	12	178
50-125/2.2	2,2	3	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
50-125/3.0	3	4	100	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
50-125/4.0	4	5,5	112	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
50-160/5.5	5,5	7,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
50-160/7.5	7,5	10	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
50-200/9.2	9,2	12,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
50-200/11	11	15	160	B35	19	42	63	114	16 x 1,5	M 8 x 8	UNI 5929	45,3	12	178
50-200/15	15	20	160	B35	22	42	63	114	18 x 1,5	M 8 x 8	UNI 5929	45,3	12	209
65-125/4.0	4	5,5	112	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
65-125/5.5	5,5	7,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
65-125/7.5	7,5	10	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
65-160/7.5	7,5	10	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
65-160/9.2	9,2	12,5	132	B35	19	38	58	84	16 x 1,5	M 8 x 8	UNI 5929	41,3	10	145
65-160/11	11	15	160	B35	19	42	63	114	16 x 1,5	M 8 x 8	UNI 5929	45,3	12	178
65-160/15	15	20	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
65-200/15	15	20	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
65-200/18.5	18,5	25	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
65-200/22	22	30	180	B35	24	48	72	114	20 x 1,5	M 10 x 10	UNI 5929	51,8	14	184

DIMENSIONAL TABLE up to 80 size

Pump type	kW	HP	Motor Size	Motor Type	Dimensions (mm) d1	d2	d3	L	M	X Size	X Standard	h	S	E
65-250/30	30	40	200	B35	24	55	85	114	20 x 1,5	M 12 x 12	UNI 5923	59,3	16	184
65-250/37	37	50	200	B35	24	55	85	114	20 x 1,5	M 12 x 12	UNI 5923	59,3	16	184
80-160/11	11	15	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
80-160/15R	15	20	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
80-160/15	15	20	160	B35	24	42	63	114	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
80-160/18.5	18,5	25	160	B35	24	42	63	144	20 x 1,5	M 8 x 8	UNI 5929	45,3	12	184
80-200/22	22	30	180	B35	24	48	72	114	20 x 1,5	M 10 x 10	UNI 5929	51,8	14	184
80-200/30	30	40	200	B35	24	55	85	114	20 x 1,5	M 12 x 12	UNI 5923	59,3	16	184
80-200/37	37	50	200	B35	24	55	85	114	20 x 1,5	M 12 x 12	UNI 5923	59,3	16	184
80-250/37	37	50	200	B35	29	55	85	114	24 x 2	M 12 x 12	UNI 5923	59,3	16	206
80-250/45	45	60	225	B35	29	55	85	114	24 x 2	M 12 x 12	UNI 5923	59,3	16	206
80-250/55	55	75	250	B35	29	60	89	144	24 x 2	M 12 x 12	UNI 5923	64,4	18	218

3S4 (3LS4) Series coupling

4 POLES



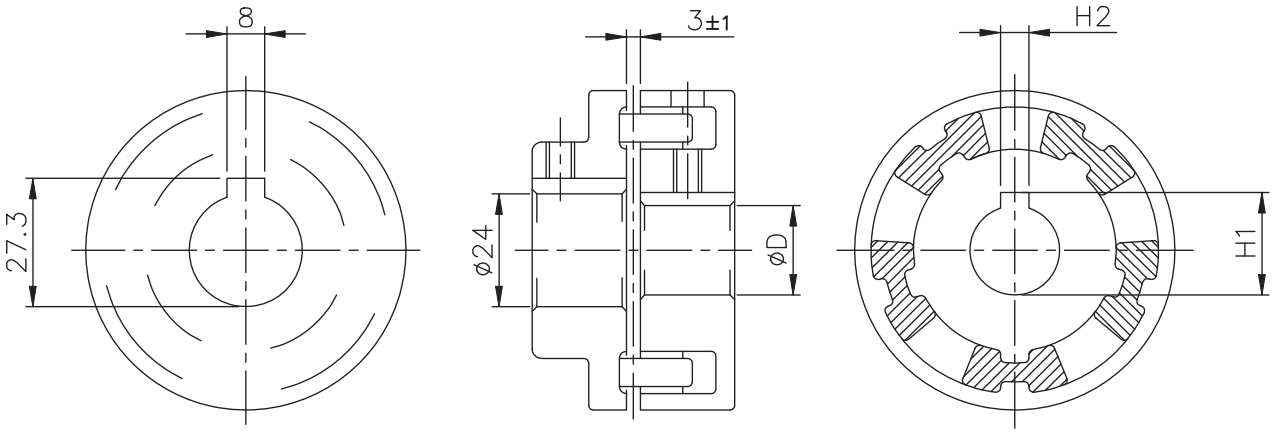
DIMENSIONAL TABLE up to 65 size

Pump type	kW	HP	Motor		Dimensions (mm)								
			HA	Type	D	d	L3	M	X	h	S	E	A
32-125/0.25	0,25	0,33	71	B5	28	14	33	M 16 x 1,5	M 5 x 6	16,3	5	88	19
32-160/0.37R	0,37	0,5	71	B5	28	14	33	M 16 x 1,5	M 5 x 6	16,3	5	88	19
32-160/0.37	0,37	0,5	71	B5	28	14	33	M 16 x 1,5	M 5 x 6	16,3	5	88	19
32-200/0.55R	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
32-200/0.55	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
32-200/0.75	0,75	1	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
40-125/0.37R	0,37	0,5	71	B5	28	14	33	M 16 x 1,5	M 5 x 6	16,3	5	88	19
40-125/0.37	0,37	0,5	71	B5	28	14	33	M 16 x 1,5	M 5 x 6	16,3	5	88	19
40-160/0.55R	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
40-160/0.55	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
40-200/1.1R	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
40-200/1.1	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
40-200/1.5	1,5	2	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
50-125/0.55R	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
50-125/0.55	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
50-160/1.1R	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
50-160/1.1	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
50-200/1.5R	1,5	2	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
50-200/1.5	1,5	2	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
50-200/2.2	2,2	3	100	B35	43	28	63	M 18 x 1,5	M 8 x 8	31,3	8	153	22
65-125/0.55	0,55	0,75	80	B5	33	19	43	M 16 x 1,5	M 6 x 6	21,8	6	98	19
65-125/0.75	0,75	1	80	B5	33	19	43	M 18 x 1,5	M 6 x 6	21,8	6	98	19
65-125/1.1	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
65-160/1.1	1,1	1,5	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
65-160/1.5	1,5	2	90	B5	39	24	53	M 16 x 1,5	M 8 x 8	27,3	8	110	19
65-160/2.2	2,2	3	100	B35	43	28	63	M 16 x 1,5	M 8 x 8	31,3	8	122	19
62-200/2.2R	2,2	3	100	B35	43	28	63	M 16 x 1,5	M 8 x 8	31,3	8	122	19
65-200/2.2	2,2	3	100	B35	43	28	63	M 16 x 1,5	M 8 x 8	31,3	8	122	19
65-200/3.0	3	4	100	B35	43	28	63	M 16 x 1,5	M 8 x 8	31,3	8	122	19

DIMENSIONAL TABLE up to 80 size

Pump type	kW	HP	Motor		Dimensions (mm)									
			Size	Type	d1	d2	d3	L	M	X		h	S	E
										Size	Standard			
65-250/4	4	5,5	112	B35	24	28	45	63	20 x 1,5	M 8 x 8	UNI 5929	31,3	8	128
65-250/5.5	5,5	7,5	132	B35	24	38	58	84	20 x 1,5	M 8 x 8	UNI 5929	41,3	10	151
80-160/1.5	1,5	2	90	B5	19	24	39	53	16 x 1,5	M 8 x 8	UNI 5929	27,3	8	110
80-160/2.2R	2,2	3	100	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
80-160/2.2	2,2	3	100	B35	19	28	43	63	16 x 1,5	M 8 x 8	UNI 5929	31,3	8	122
80-200/3	3	4	100	B35	24	28	54	63	20 x 1,5	M 8 x 8	UNI 5929	31,3	8	128
80-200/4R	4	5,5	112	B35	24	28	54	63	20 x 1,5	M 8 x 8	UNI 5929	31,3	8	128
80-200/4	4	5,5	112	B35	24	28	54	63	20 x 1,5	M 8 x 8	UNI 5929	31,3	8	128
80-250/5.5R	5,5	7,5	132	B35	24	38	58	84	20 x 1,5	M 8 x 8	UNI 5929	41,3	10	151
80-250/5.5	5,5	7,5	132	B35	24	38	58	84	20 x 1,5	M 8 x 8	UNI 5929	41,3	10	151
80-250/7.5	7,5	10	132	B35	24	38	58	84	20 x 1,5	M 8 x 8	UNI 5929	41,3	10	151

3(L)P - 3(L)P4 Series coupling



PUMP SIDE

MOTOR SIDE

DIMENSIONAL TABLES

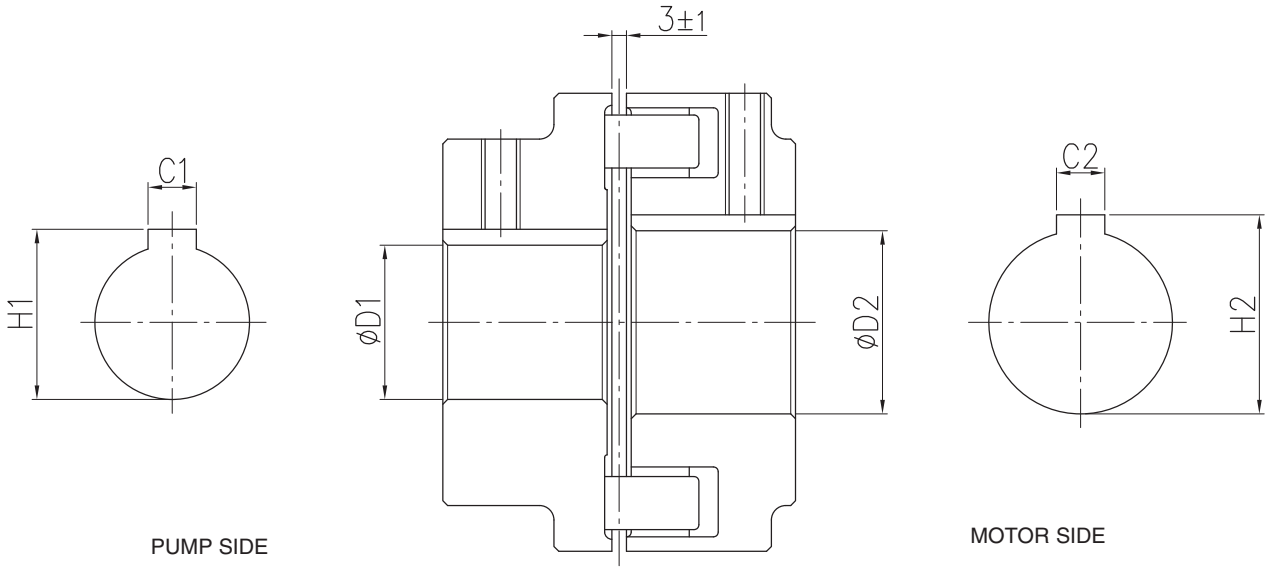
2 POLES

Pump type 3(L)P	kW	HP	Motor Size	Motor Type	Dimensions (mm) D	H1	H2
32-125/1,1	1,1	1,5	80	B3	19	21,8	6
32-160/1,5	1,5	2	90	B3	24	27,3	8
32-160/2,2	2,2	3	90	B3	24	27,3	8
32-200/3,0	3	4	100	B3	28	31,3	8
32-200/4,0	4	5,5	112	B3	28	31,3	8
32-200/5,5	5,5	7,5	132	B3	38	41,3	10
32-200/7,5	7,5	10	132	B3	38	41,3	10
40-125/1,5	1,5	2	90	B3	24	27,3	8
40-125/2,2	2,2	3	90	B3	24	27,3	8
40-160/3,0	3	4	100	B3	28	31,3	8
40-160/4,0	4	5,5	112	B3	28	31,3	8
40-200/5,5	5,5	7,5	132	B3	38	41,3	10
40-200/7,5	7,5	10	132	B3	38	41,3	10
40-200/11	11	15	160	B3	42	45,3	12
50-125/2,2	2,2	3	90	B3	24	27,3	8
50-125/3,0	3	4	100	B3	28	31,3	8
50-125/4,0	4	5,5	112	B3	28	31,3	8
50-160/5,5	5,5	7,5	132	B3	38	41,3	10
50-160/7,5	7,5	10	132	B3	38	41,3	10
50-200/9,2	9,2	12,5	132	B3	38	41,3	10
50-200/11	11	15	160	B3	42	45,3	12
50-200/15	15	20	160	B3	42	45,3	12
65-125/4,0	4	5,5	112	B3	28	31,3	8
65-125/5,5	5,5	7,5	132	B3	38	41,3	10
65-125/7,5	7,5	10	132	B3	38	41,3	10
65-160/7,5	7,5	10	132	B3	38	41,3	10
65-160/9,2	9,2	12,5	132	B3	38	41,3	10
65-160/11	11	15	160	B3	42	45,3	12
65-160/15	15	20	160	B3	42	45,3	12
65-200/15	15	20	160	B3	42	45,3	12
65-200/18,5	18,5	25	160	B3	42	45,3	12
65-200/22	22	30	180	B3	48	51,8	14

4 POLES

Pump type 3(L)P4	kW	HP	Motor Size	Motor Type	Dimensions (mm) D	H1	H2
32-125/0,25	0,25	0,33	71	B3	14	16,3	5
32-160/0,37R	0,37	0,5	71	B3	14	16,3	5
32-160/0,37	0,37	0,5	71	B3	14	16,3	5
32-200/0,55R	0,55	0,75	80	B3	19	21,8	6
32-200/0,55	0,55	0,75	80	B3	19	21,8	6
32-200/0,75	0,75	1	80	B3	19	21,8	6
40-125/0,37R	0,37	0,5	71	B3	14	16,3	5
40-125/0,37	0,37	0,5	71	B3	14	16,3	5
40-160/0,55R	0,55	0,75	80	B3	19	21,3	6
40-160/0,55	0,55	0,75	80	B3	19	21,3	6
40-200/1,1R	1,1	1,5	90	B3	24	27,3	8
40-200/1,1	1,1	1,5	90	B3	24	27,3	8
40-200/1,5	1,5	2	90	B3	24	27,3	8
50-125/0,55R	0,55	0,75	80	B3	19	21,3	6
50-125/0,55	0,55	0,75	80	B3	19	21,3	6
50-160/1,1R	1,1	1,5	90	B3	24	27,3	8
50-160/1,1	1,1	1,5	90	B3	24	27,3	8
50-200/1,5R	1,5	2	90	B3	24	27,3	8
50-200/1,5	1,5	2	90	B3	24	27,3	8
50-200/2,2	2,2	3	100	B3	28	31,3	8
65-125/0,55	0,55	0,75	80	B3	19	21,8	6
65-125/0,75	0,75	1	80	B3	19	21,8	6
65-125/1,1	1,1	1,5	90	B3	24	27,3	8
65-160/1,1	1,1	1,5	90	B3	24	27,3	8
65-160/1,5	1,5	2	90	B3	24	27,3	8
65-160/2,2	2,2	3	100	B3	28	31,3	8
65-200/2,2R	2,2	3	100	B3	28	31,3	8
65-200/2,2	2,2	3	100	B3	28	31,3	8
65-200/3,0	3	4	100	B3	28	31,3	8

3S (3LS) - 3S (L) P4 Series coupling



DIMENSIONAL TABLES up to 80 size — 2 POLES

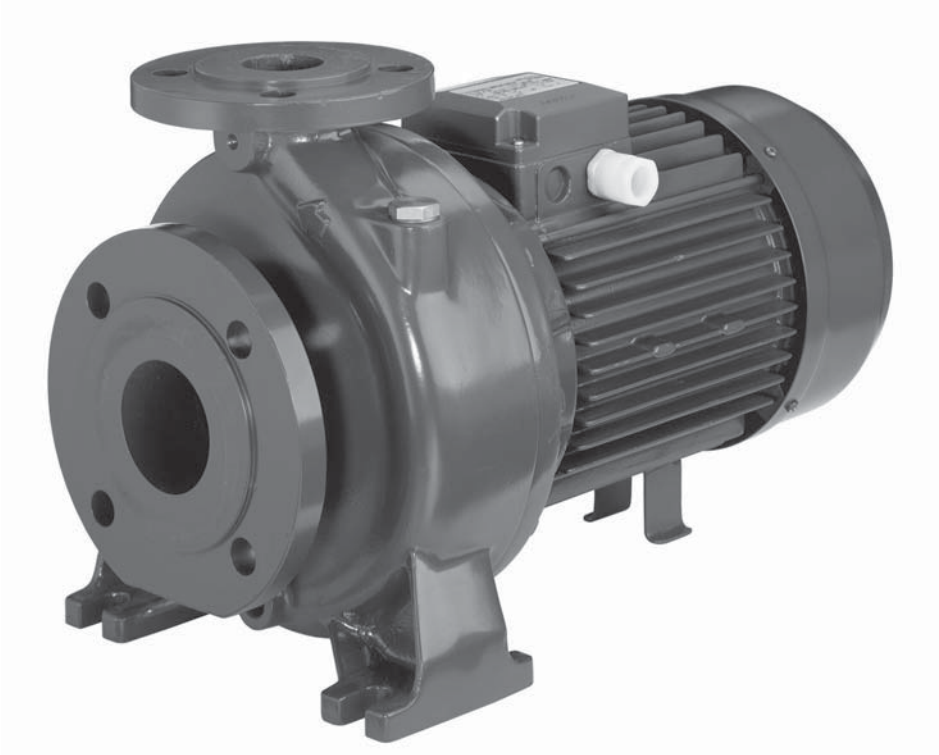
Pump type	kW	HP	Motor		Dimensions (mm)					
			Size	Type	D1	D2	C1	C2	H1	H2
65-250/30	30	40	200	B3	32	55	10	16	35,3	59,3
65-250/37	37	50	200	B3	32	55	10	16	35,3	59,3
80-160/11	11	15	160	B3	24	42	8	12	27,3	45,3
80-160/15R	15	20	160	B3	24	42	8	12	27,3	45,3
80-160/15	15	20	160	B3	24	42	8	12	27,3	45,3
80-160/18.5	18,5	25	160	B3	24	42	8	12	27,3	45,3
80-200/22	22	30	180	B3	32	48	10	14	35,3	51,8
80-200/30	30	40	200	B3	32	55	10	16	35,3	59,3
80-200/37	37	50	200	B3	32	55	10	16	35,3	59,3
80-200/37	37	50	200	B3	32	55	10	16	35,3	59,3
80-250/45	45	60	225	B3	32	55	10	16	35,3	59,3
80-250/55	55	75	250	B3	32	60	10	18	35,3	64,4

4 POLES

Pump type	kW	HP	Motor		Dimensions (mm)					
			Size	Type	D1	D2	C1	C2	H1	H2
65-250/4	4	5,5	112	B3	32	28	10	8	35,3	31,3
65-250/5.5	5,5	7,5	132	B3	32	38	10	10	35,3	41,3
80-160/1.5	1,5	2	90	B3	24	24	8	8	27,3	27,3
80-160/2.2R	2,2	3	100	B3	24	28	8	8	27,3	31,3
80-160/2.2	2,2	3	100	B3	24	28	8	8	27,3	31,3
80-200/3	3	4	100	B3	32	28	8	8	35,3	31,3
80-200/4R	4	5,5	12	B3	32	28	10	8	35,3	31,3
80-200/4	4	5,5	12	B3	32	28	10	8	35,3	31,3
80-250/5.5R	5,5	7,5	132	B3	32	38	10	10	35,3	31,3
80-250/5.5	5,5	7,5	132	B3	32	38	10	10	35,3	31,3
80-250/7.5	7,5	10	132	B3	32	38	10	10	35,3	31,3

CENTRIFUGAL PUMPS according EN 733 (ex DIN 24255) STANDARD in cast iron

End suction centrifugal pumps in accordance with EN 733 (ex DIN 24255) made of cast iron, applications include water boosting, heating systems, air-conditioning, washing systems and many other industrial applications.



SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature:
  90°C (MD)
  130°C (MMD)

MATERIALS

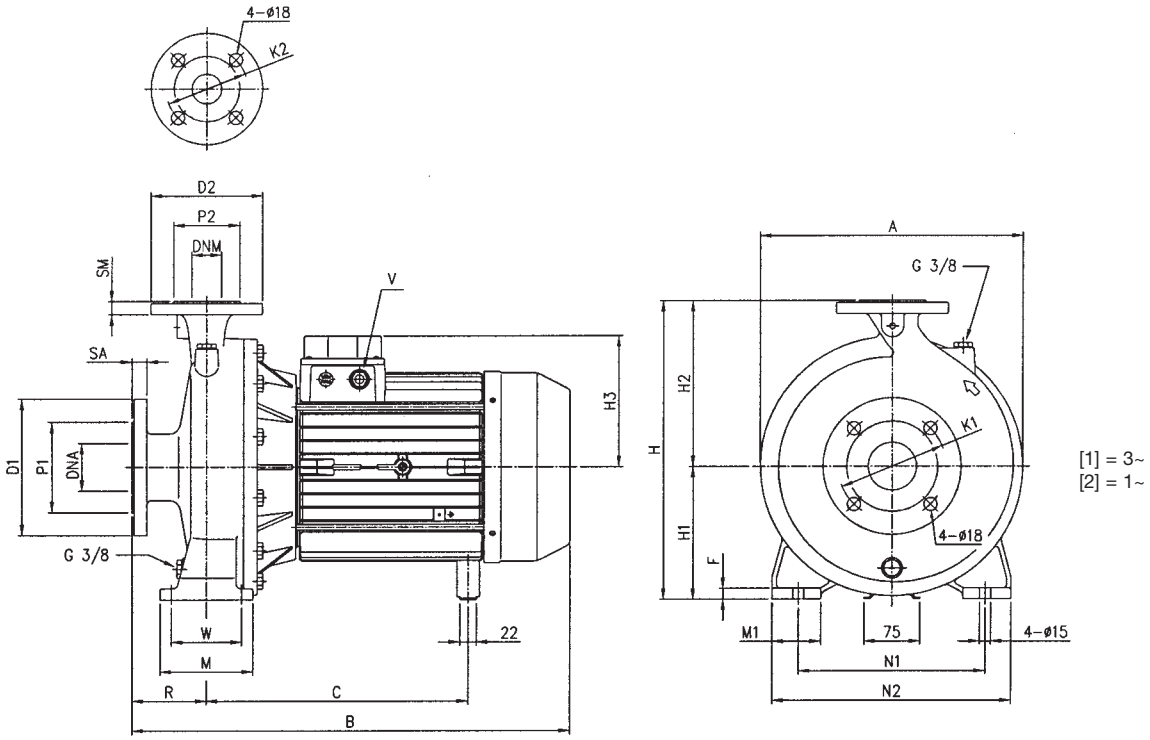
- Pump body and bracket in cast iron
- Shaft in AISI 304 (MD), in AISI 406 (MMD)
- Mechanical seal in carbon/ceramic/NBR (MD) in SiC/SiC/EPDM (MMD)
- Impeller in cast iron and bronze

TECHNICAL DATA

- Asincronous 2 and 4 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz up to 4kW included, 400/690V ± 10% 5.5 kW and above
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction: flange to DIN 2532 (50 mm - 65 mm - 80 mm)
- Discharge: flange to DIN 2532 (32 mm - 40 mm - 50 mm 65 mm)

MD

2 POLES



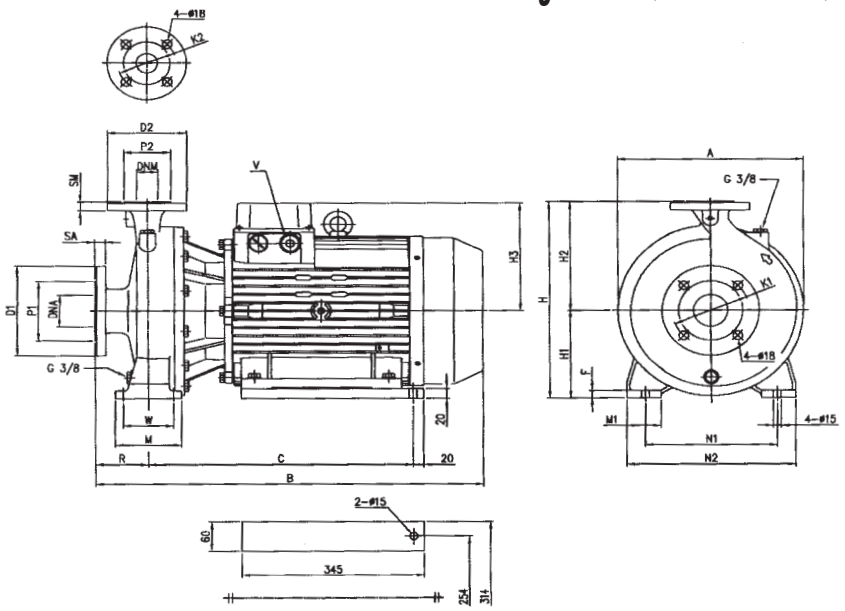
DIMENSIONAL TABLE

Pump type	Dimensions (mm)																								
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	[1]	[2]	R	W	N1	M	N2	M1	F	A	B	C	V[1]
MD 32-125/1.1	50	102	125	165	20	32	78	100	140	18	252	112	140	122	139	80	70	140	100	190	50	13	205	431	230	PG13.5
MD 32-125/1.5	50	102	125	165	20	32	78	100	140	18	252	112	140	122	139	80	70	140	100	190	50	13	205	431	230	PG13.5
MD 32-160/1.5	50	102	125	165	20	32	78	100	140	18	292	132	160	122	139	80	70	190	100	240	50	13	245	431	230	PG13.5
MD 32-160/2.2	50	102	125	165	20	32	78	100	140	18	292	132	160	122	139	80	70	190	100	240	50	13	245	431	230	PG13.5
MD 32-200/3	50	102	125	165	20	32	78	100	140	18	340	160	180	122	–	80	70	190	100	240	50	13	290	431	252	PG13.5
MD 32-200/4	50	102	125	165	20	32	78	100	140	18	340	160	180	134	–	80	70	190	100	240	50	13	290	459	254	PG 16
MD 32-250/5.5	50	102	125	165	20	32	78	100	140	18	405	180	225	153	–	100	95	250	125	320	65	15	352	496	275	PG 16
MD 32-250/7.5	50	102	125	165	20	32	78	100	140	18	405	180	225	153	–	100	95	250	125	320	65	15	352	540	275	PG 16
MD 32-250/9.2	50	102	125	165	20	32	78	100	140	18	405	180	225	181	–	100	95	250	125	320	65	15	352	588	351	PG 21
MD 32-250/11	50	102	125	165	20	32	78	100	140	18	405	180	225	181	–	100	95	250	125	320	65	15	352	588	351	PG 21
MD 40-125/1.5	65	122	145	185	20	40	88	110	150	18	252	112	140	122	139	80	70	160	100	210	50	13	235	431	230	PG13.5
MD 40-125/2.2	65	122	145	185	20	40	88	110	150	18	252	112	140	122	139	80	70	160	100	210	50	13	235	431	230	PG13.5
MD 40-160/3	65	122	145	185	20	40	88	110	150	18	292	132	160	122	–	80	70	190	100	240	50	13	245	431	230	PG13.5
MD 40-160/4	65	122	145	185	20	40	88	110	150	18	292	132	160	134	–	80	70	190	100	240	50	13	245	459	232	PG 16
MD 40-200/5.5	65	122	145	185	20	40	88	110	150	18	340	160	180	153	–	100	70	212	100	265	50	13	290	495	278	PG 16
MD 40-200/7.5	65	122	145	185	20	40	88	110	150	18	340	160	180	153	–	100	70	212	100	265	50	13	290	495	278	PG 16
MD 40-250/11	65	122	145	185	20	40	88	110	150	18	405	180	225	181	–	100	95	250	125	320	65	15	352	588	351	PG 21
MD 40-250/13	65	122	145	185	20	40	88	110	150	18	405	180	225	181	–	100	95	250	125	320	65	15	352	588	351	PG 21
MD 50-125/2.2	65	122	145	185	20	50	102	125	165	20	292	132	160	122	139	100	70	190	100	240	50	13	230	431	230	PG13.5
MD 50-125/3	65	122	145	185	20	50	102	125	165	20	292	132	160	122	–	100	70	190	100	240	50	13	230	451	230	PG13.5
MD 50-125/4	65	122	145	185	20	50	102	125	165	20	292	132	160	134	–	100	70	190	100	240	50	13	230	479	232	PG 16
MD 50-160/5.5	65	122	145	185	20	50	102	125	165	20	340	160	180	153	–	100	70	212	100	265	50	13	260	495	278	PG 16
MD 50-160/7.5	65	122	145	185	20	50	102	125	165	20	340	160	180	153	–	100	70	212	100	265	50	13	260	495	278	PG 16
MD 50-200/9.2	65	122	145	185	20	50	102	125	165	20	360	160	200	181	–	100	70	212	100	265	50	13	300	585	355	PG 21
MD 50-200/11	65	122	145	185	20	50	102	125	165	20	360	160	200	181	–	100	70	212	100	265	50	13	300	585	355	PG 21
MD 65-125/5.5	80	138	160	200	22	65	122	145	185	20	340	160	180	153	–	100	95	212	125	280	65	13	260	495	278	PG 16
MD 65-125/7.5	80	138	160	200	22	65	122	145	185	20	340	160	180	153	–	100	95	212	125	280	65	13	260	495	278	PG 16
MD 65-160/11	80	138	160	200	22	65	122	145	185	20	360	160	200	181	–	100	95	212	125	280	65	13	300	585	355	PG 21
MD 65-160/15	80	138	160	200	22	65	122	145	185	20	360	160	200	181	–	100	95	212	125	280	65	13	300	585	355	PG 21

CENTRIFUGAL PUMPS according EN 733 (ex DIN 24255) STANDARD in cast iron

MD

2 POLES



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																							
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	V
MD 40-250/15	65	122	145	185	20	40	88	110	150	18	405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21
MD 50-250/15	65	122	145	185	20	50	102	125	165	20	405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21
MD 50-250/18.5	65	122	145	185	20	50	102	125	165	20	405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21
MD 50-250/22	65	122	145	185	20	50	102	125	165	20	405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21
MD 65-200/18.5	80	138	160	200	22	65	122	145	185	20	405	180	225	230	100	95	250	125	320	65	15	310	736	548	PG 21
MD 65-200/22	80	138	160	200	22	65	122	145	185	20	405	180	225	230	100	95	250	125	320	65	15	310	736	548	PG 21

MMD

2 POLES

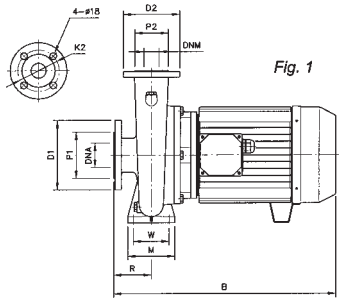
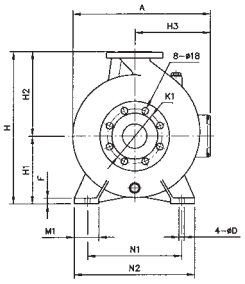


Fig. 1



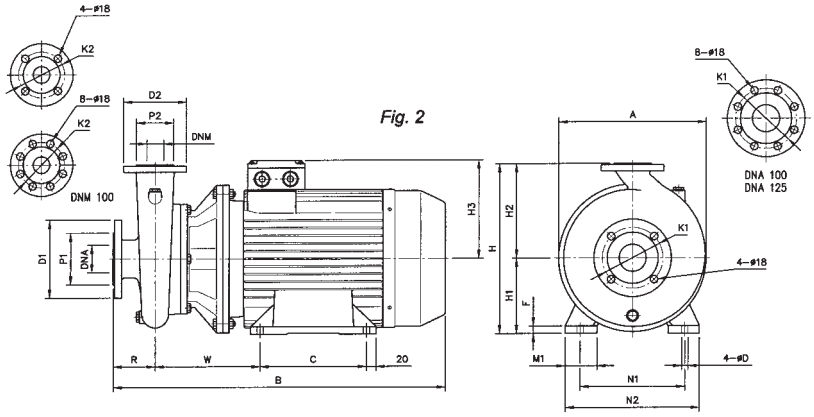


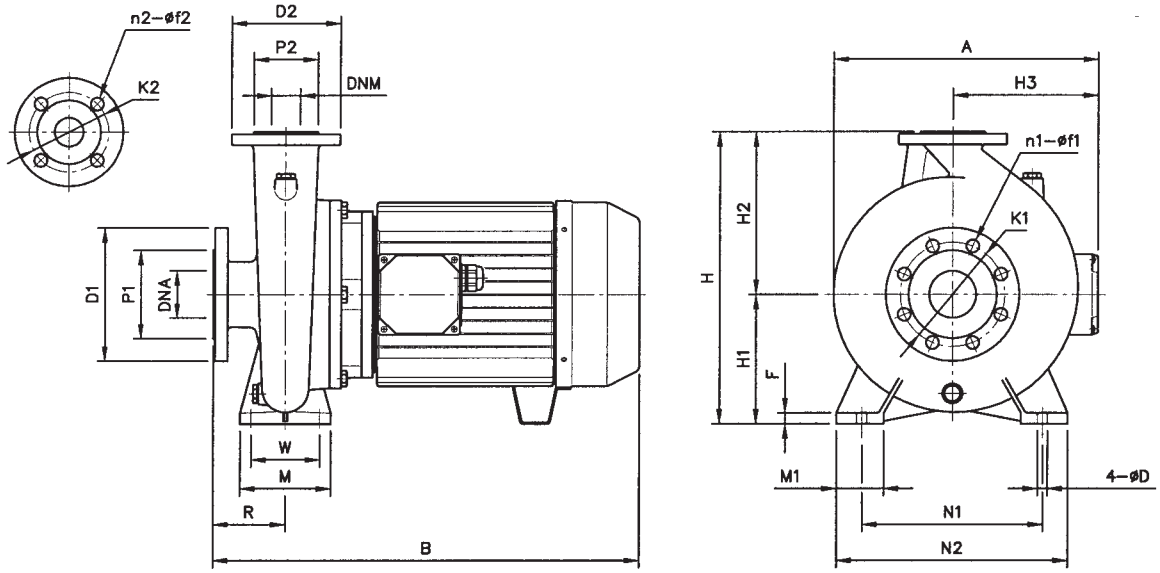
Fig. 2

DIMENSIONAL TABLE

Pump type	Fig.	Dimensions (mm)																							Weight (kg)
		DNA	P1	K1	D1	DNM	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	D	
MMD 65-250/22	2	80	138	160	200	65	122	145	185	450	180	250	230	100	293	280	–	320	55	22	365	810	241	14	144
MMD 65-250/30	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	–	360	60	24	400	905	305	18	172
MMD 65-250/37	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	–	360	60	24	400	905	305	18	190
MMD 80-160/10	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	–	14	74
MMD 80-160/12.5	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	–	14	81.5
MMD 80-160/15	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	–	14	88.5
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	–	320	55	22	360	835	241	14	132
MMD 80-200/22	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	–	320	55	22	360	835	241	14	150
MMD 80-200/30	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	–	360	60	24	400	930	305	18	192
MMD 80-200/37	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	–	360	60	24	400	930	305	18	210
MMD 80-250/37	2	100	158	180	220	80	138	160	200	480	200	280	257	125	325	318	–	360	60	24	400	930	305	18	196
MMD 100-200/22	2	125	188	210	250	100	158	180	220	480	180	280	230	125	293	318	–	320	55	22	385	835	241	14	160
MMD 100-200/30	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	–	360	60	24	400	930	305	18	202
MMD 100-200/37	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	–	360	60	24	400	930	305	18	220

MMD4

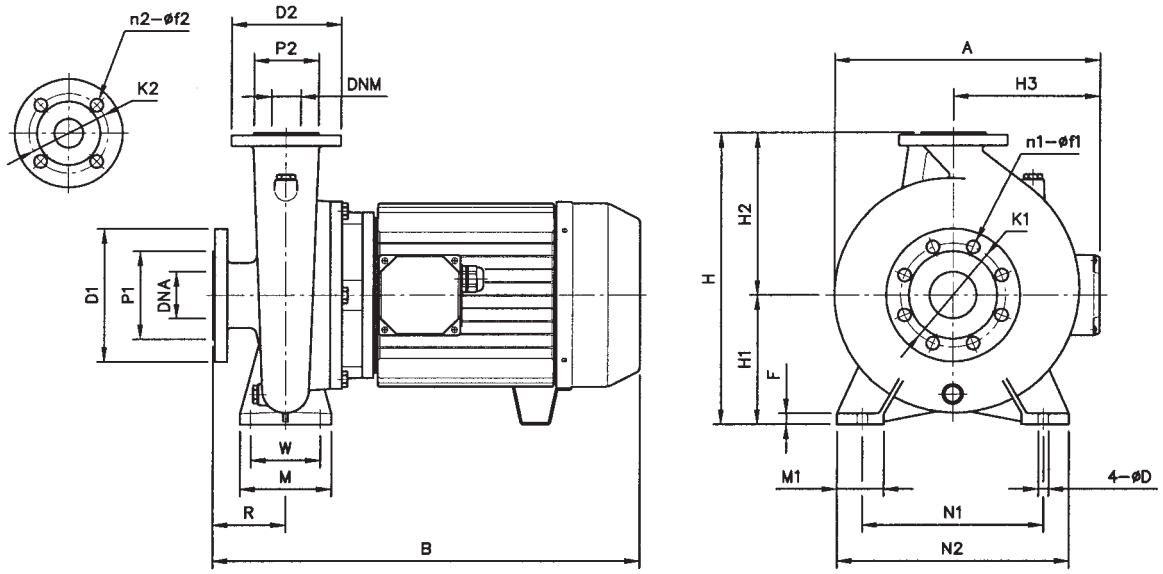
4 POLES



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																										Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D1	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	(kg)
MMD4 32-125/0.25R	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19.5
MMD4 32-125/0.25	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19.5
MMD4 32-160/0.37	50	4	18	102	125	165	32	4	18	78	100	140	292	132	160	107	80	70	190	100	240	50	12	240	405	14	23
MMD4 32-200/0.75	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	30
MMD4 32-200/0.92	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	31
MMD4 32-250/1.1	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	47
MMD4 32-250/1.5	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	49
MMD4 40-125/0.25	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	20.5
MMD4 40-125/0.37	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	21.5
MMD4 40-160/0.55	65	4	18	122	145	185	40	4	18	88	110	150	292	132	160	107	80	70	190	100	240	50	12	230	405	14	25
MMD4 40-200/1.1	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	285	485	14	36
MMD4 40-200/1.5	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	242	485	14	36
MMD4 40-250/1.5	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	149	100	95	250	125	320	65	12	325	485	14	47.5
MMD4 40-250/2.2	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	159	100	95	250	125	320	65	12	325	525	14	54
MMD4 50-125/0.37	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	25
MMD4 50-125/0.55	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	26
MMD4 50-160/0.75	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	32
MMD4 50-160/0.92	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	33
MMD4 50-200/1.1	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	159	100	70	212	100	265	50	12	285	485	14	38
MMD4 50-200/1.5	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	149	100	70	212	100	265	50	12	285	485	14	40
MMD4 50-250/2.2	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	57
MMD4 50-250/3.0	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	63
MMD4 65-125/0.75	80	4	18	138	160	200	65	4	18	122	145	185	340	160	180	118	100	95	212	125	280	65	12	286	445	14	32
MMD4 65-160/1.1	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	37.5
MMD4 65-160/1.5	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	40
MMD4 65-200/2.2	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	51
MMD4 65-200/3.0	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	57
MMD4 65-250/4.0	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	159	100	120	280	160	360	80	14	365	535	14	80
MMD4 65-250/5.5	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	184	100	120	280	160	360	80	14	365	640	14	90

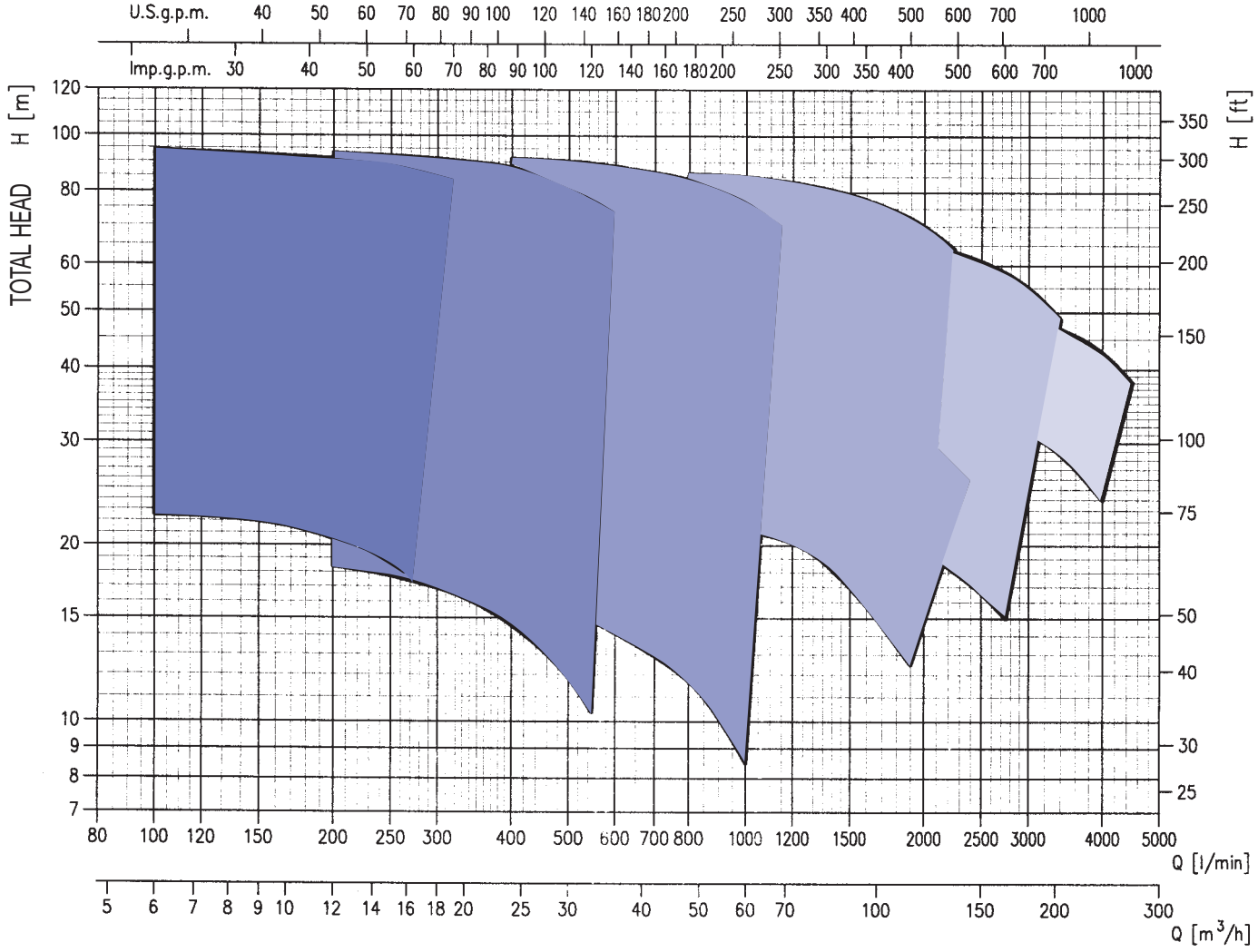
MMD4 4 POLES



DIMENSIONAL TABLE

Pump type	Dimensions (mm)																										Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	(kg)
MMD4 80-160/1.5	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	149	125	95	250	125	320	65	14	330	510	14	45
MMD4 80-160/2.2	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	159	125	95	250	125	320	65	14	330	550	14	51
MMD4 80-200/3.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	550	14	66
MMD4 80-250/4.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	560	14	73
MMD4 80-250/5.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	96
MMD4 80-250/7.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	106
MMD4 100-200/4.0	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	159	125	120	280	160	360	80	14	385	560	18	78
MMD4 100-200/5.5	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	184	125	120	280	160	360	80	14	385	665	18	90
MMD4 100-250/7.5	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	112
MMD4 100-250/9.2	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	118
MMD4 125-200/5.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	124
MMD4 125-200/7.5R	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134
MMD4 125-200/7.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134
MMD4 125-200/9.2	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	770	18	140
MMD4 125-250/11	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	700	18	162
MMD4 125-250/15	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	855	18	190
MMD4 150-200/7.5	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	167
MMD4 150-200/9.2	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	173
MMD4 150-200/11	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	175
MMD4 150-200/15	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	875	24	203
MMD4 200-250/18.5R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278
MMD4 200-250/18.5	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278
MMD4 200-250/22R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300
MMD4 200-250/22	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300

PERFORMANCE CHART MD/MMD series — 2 POLES



R.P.M. ≈ 2900 min^{-1}
Test fluid: *Clean water* 20°C
Applicable standard: UNI EN ISO 9906 Annex A

PERFORMANCE TABLE

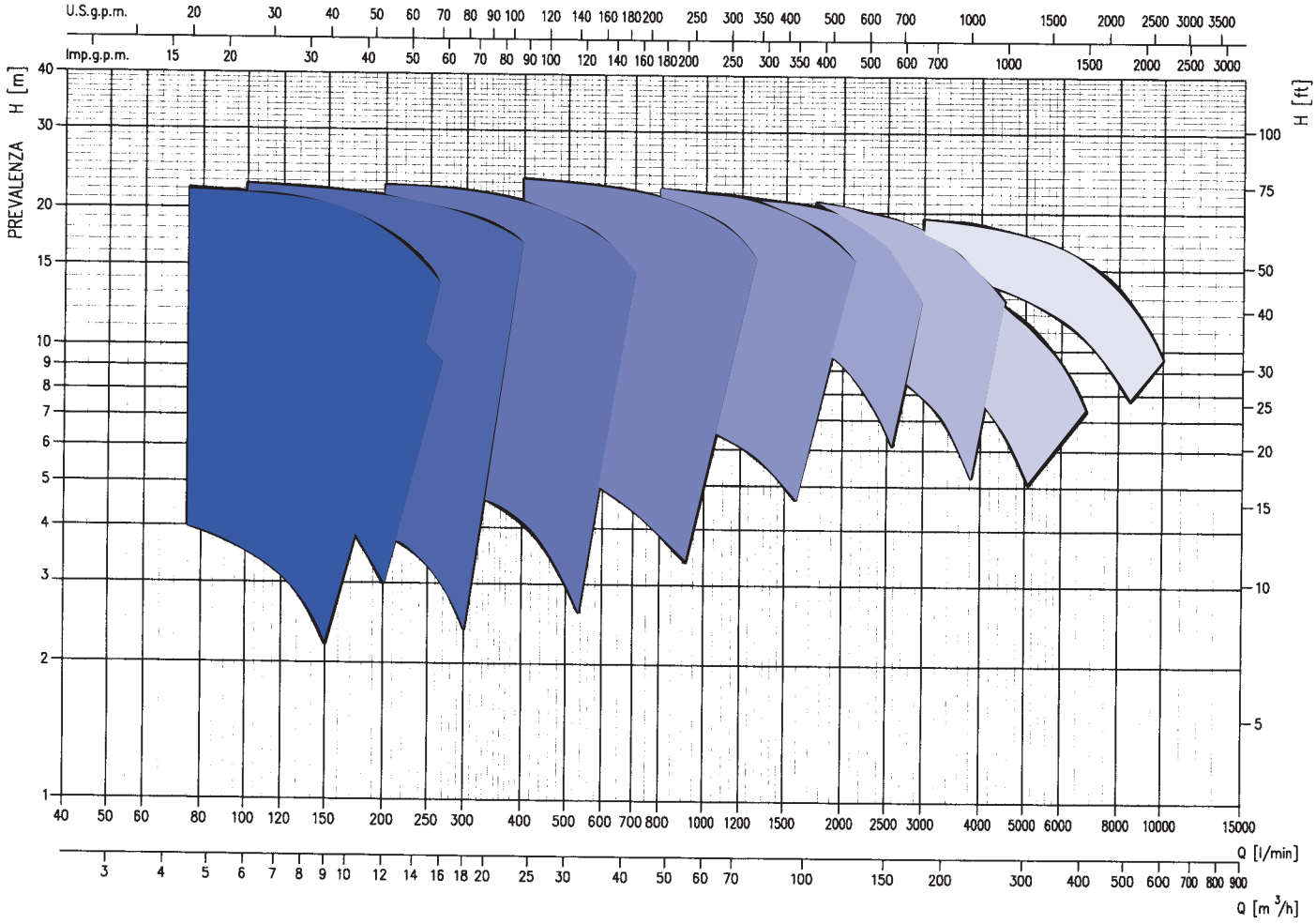
Pump type	Motor		Q=Capacity																					
			l/min	0	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400
			m³/h	0	6	12	15	17	19	24	33	36	40	48	60	66	69	72	84	114	120	132	138	144
	kW	HP	H=Total Head																					
MD 32-125/1.1 *	1.1	1.5	23	22.5	20.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.5 *	1.5	2	24	23.5	21.5	19.7	18.5	16.6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/1.5 *	1.5	2	28	27	24	22	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/2.2 *	2.2	3	35.5	34.5	32	30	28.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/3.0	3	4	43	41	36.5	33	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/4.0	4	5.5	52	50.5	47	44.5	42.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/5.5	5.5	7.5	58	57	54	51	49	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/7.5	7.5	10	71	70	67	64	62	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/9.2	9.2	12.5	84	83	80	78	76	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/11	11	15	95	94	91	89	87	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/1.5 *	1.5	2	20	19.5	18.4	17.7	17.2	16.5	14.6	10.3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/2.2 *	2.2	3	25.5	25	23.5	23	22.5	22	20.5	16.9	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/3.0	3	4	31.5	30.5	29	28	27.5	26.5	25	21	19	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/4.0	4	5.5	39	38	36.5	36	35,5	35	33	29.5	28	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/5.5	5.5	7.5	48.5	48	47	46	45.5	44.5	42.5	37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/7.5	7.5	10	58	57.5	56.5	55.5	55	54.5	52.5	47.5	45	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/11	11	15	74.5	-	73	72	71.5	70	66.5	58.5	55	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/13	13	17.5	85.5	-	84	83.5	82.5	81.5	78	69	65	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/15	15	20	94.5	-	93	92	91.5	90.5	88	78	74	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/2.2 *	2.2	3	17.5	-	-	-	-	-	16	14.8	14.3	13.5	11.7	8.5	-	-	-	-	-	-	-	-	-	-
MD 50-125/3.0	3	4	21	-	-	-	-	-	19.5	18.6	18.2	17.6	16.1	13	-	-	-	-	-	-	-	-	-	-
MD 50-125/4.0	4	5.5	25.5	-	-	-	-	-	24	23	23	22	21	17.8	16	-	-	-	-	-	-	-	-	-
MD 50-160/5.5	5.5	7.5	33.5	-	-	-	-	-	32.5	31	30.5	30	28	24.5	22.5	-	-	-	-	-	-	-	-	-
MD 50-160/7.5	7.5	10	39	-	-	-	-	-	38	37	36.5	35.5	34	31	29	28	27	-	-	-	-	-	-	-
MD 50-200/9.2	9.2	12.5	50	-	-	-	-	-	48	46	45	44	41	36	33	-	-	-	-	-	-	-	-	-
MD 50-200/11	11	15	56	-	-	-	-	-	54.5	53	52	51	48.5	43.5	40.5	39	37	-	-	-	-	-	-	-
MD 50-250/15	15	20	71	-	-	-	-	-	69	67	66	64	60.5	52.5	47	-	-	-	-	-	-	-	-	-
MD 50-250/18.5	18.5	25	82	-	-	-	-	-	80	78.5	77.5	76	72.5	65	60	57	-	-	-	-	-	-	-	-
MD 50-250/22	22	30	93	-	-	-	-	-	91	89.5	88.5	87	84	77	72.5	70	-	-	-	-	-	-	-	-
MD 65-125/5.5	5.5	7.5	24	-	-	-	-	-	-	-	23.2	23	22.5	21.5	20.5	20.5	20	18.2	12.5	-	-	-	-	-
MD 65-125/7.5	7.5	10	27.5	-	-	-	-	-	-	-	26.5	26	25.5	24.5	24	23.5	23	21.5	16.3	15	-	-	-	-
MD 65-160/11	11	15	34.5	-	-	-	-	-	-	-	-	34	33.5	33	32.5	32	32	30.5	26.5	25.5	23	22	-	-
MD 65-160/15	15	20	39	-	-	-	-	-	-	-	-	-	38	37.5	37	36.5	36.5	35	31	30.5	28.5	27	26	-
MD 65-200/18.5	18.5	25	55	-	-	-	-	-	-	-	-	-	53.5	52.5	51.5	51	50.5	48.5	42	40.5	37	-	-	-
MD 65-200/22	22	30	61	-	-	-	-	-	-	-	-	-	59.5	58.5	58	57.5	57	55.5	50	49	46	-	-	-

*Available also for single-phase version

Pump type	Motor		Q=Capacity																
			l/min	0	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500		
			m³/h	0	48	60	75	90	105	120	135	150	165	180	210	240	270		
	kW	HP	H=Total Head																
MMD 65-250/22	22	30	65	64	63	61	57	53	-	-	-	-	-	-	-	-	-	-	-
MMD 65-250/30	30	40	78	77	76	74	70	66	60	53*	-	-	-	-	-	-	-	-	-
MMD 65-250/37	37	55	86.5	86	85	83	79	75	70	64*	-	-	-	-	-	-	-	-	-
MMD 80-160/10	10	13.6	24.8	-	24	23	22	21	19.5	18	16.5	15*	-	-	-	-	-	-	-
MMD 80-160/12.5	12.5	17	29.5	-	28.5	28	27	26	24.5	23	21.5	20	18.5*	-	-	-	-	-	-
MMD 80-160/15	15	20	35	-	34	33.3	32.5	31.8	31	29	27.5	26	24.3	-	-	-	-	-	-
MMD 80-200/18.5	18.5	25	42.2	-	42	41	40	38.5	37	35	33	30.5	28	-	-	-	-	-	-
MMD 80-200/22	22	30	47.2	-	47	46.5	45.5	44.5	43	41	39	37	34	-	-	-	-	-	-
MMD 80-200/30	30	40	55.5	-	55	54	53	52	51	49	47	45	43	37	-	-	-	-	-
MMD 80-200/37	37	55	57.5	-	57	56.8	56.5	56	55	54	52.5	51	48	42	-	-	-	-	-
MMD 80-250/37	37	55	68.5	-	-	67.5	67	66.2	65	63.3	61	58.3	55	47	-	-	-	-	-
MMD 100-200/22	22	30	40	-	-	-	38.5	38	37	36	34.5	33	31.5	28	24	-	-	-	-
MMD 100-200/30	30	40	48	-	-	-	47	46.3	45.6	44.8	43.7	42.4	41	38	34.6*	30**	-	-	-
MMD 100-200/37	37	55	54.2	-	-	-	53.7	53.3	53	52	51	50	49	46	43*	38**	-	-	-

*Suction head has not to exceed 2 m
**Positive 1 m suction head

PERFORMANCE CHART MMD4 series — 4 POLES



R.P.M. ≈ 1450 min^{-1}
test fluid: Clean water 20°C
Applicable standard: UNI EN ISO 9906 Annex A

DIMENSIONAL TABLE

Pump type	Motor		Q=Capacity																																		
			l/min	0	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250
			m³/h	0	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	21	24	27	30	33	36	39	42	48	54	60	66	72	78	84	90	105	120	135
	kW	HP	H=Total head																																		
MMD4 32-125/0,25 R	0.25	0.33	4.8	4.4	4	3.5	3	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/0,25	0.25	0.33	6.3	6.2	6.1	5.8	5.3	4.6	3.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-160/0,37	0.37	0.5	9.6	-	9.2	8.9	8.3	7.7	6.8	5.8	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,75	0.75	1.0	13.5	-	12.8	12.4	11.9	11.3	10.6	9.8	8.9	8	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,92	0.92	1.25	15	-	14.6	14.3	13.8	13.3	12.7	11.8	10.9	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-250/1,1	1.1	1.5	19	-	18.5	18	17.5	17	15.9	14.5	12.8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/1,5	1.5	2	22.5	-	22	21.6	21.2	20.5	19.4	18	16.5	15	13*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,25	0.25	0.33	4.8	-	-	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.9	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,37	0.37	0.5	6.4	-	-	6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-160/0,55	0.55	0.75	9.2	-	-	8.8	8.6	8.4	8.1	7.7	7.3	6.9	6.4	5.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1 R	1.1	1.5	12.9	-	-	12.7	12.5	12.1	11.7	11.2	10.7	10.1	9.5	8.5	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1	1.1	1.5	14.5	-	-	14.2	14	13.8	13.4	13	12.5	11.8	11	10.2	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/1,5	1,5	2	18.7	-	-	18.3	18	17.7	17.4	17	16.7	16.2	15.6	15	13.7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/2,2	2.2	3	23.2	-	-	22.5	22.3	22	21.7	21.4	21.2	20.5	20.2	19.5	18.5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0,37	0.37	0.5	5.4	-	-	-	-	5.3	5.3	5.2	5.1	5	4.9	4.8	4.5	4.1	3.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0,55	0.55	0.75	6.5	-	-	-	-	6.4	6.3	6.3	6.2	6.1	6	5.9	5.5	5.2	4.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,75	0.75	1.0	8.3	-	-	-	-	-	-	8.1	8	7.9	7.8	7.7	7.4	7	6.6	6	5.1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,92	0.92	1.25	9.1	-	-	-	-	-	-	9	8.9	8.9	8.8	8.7	8.4	8.1	7.7	7.2	6.4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,1	1.1	1.5	12.6	-	-	-	-	-	-	12.3	12.2	12	11.8	1.5	10.8	10	9	8	7	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,5	1.5	2	14.3	-	-	-	-	-	-	14.1	14	13.9	13.7	13.5	12.8	12	11.3	10.2	9	7.8	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/2,2	2.2.	3	19.5	-	-	-	-	-	-	18.5	18.3	18.1	17.8	17.5	17	16.2	15.5	14.5	13.5	12.5	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/3	3	4	23	-	-	-	-	-	-	22.5	22.4	22.3	22.2	22	21.5	20.9	20.2	19.4	18.5	17.5	16.3	14.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-125/0,75	0.75	1.0	6	-	-	-	-	-	-	-	-	-	-	5.8	5.7	5.6	5.5	5.3	5.1	4.9	4.6	4.4	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-160/1,1	1.1	1.5	8.6	-	-	-	-	-	-	-	-	-	-	8.5	8.5	8.4	8.3	8.2	8.1	8	7.8	7.4	6.8	5.8	5	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-160/1,5	1.5	2	10.3	-	-	-	-	-	-	-	-	-	-	10.2	10.1	10	9.9	9.8	9.6	9.4	9.2	9	8.4	7.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-200/2,2	2.2	3	12.6	-	-	-	-	-	-	-	-	-	-	-	-	12.5	12.4	12.3	12.2	12.1	12	11.7	11.1	10.5	9.6	8.5	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-200/3	3	4	15,4	-	-	-	-	-	-	-	-	-	-	-	-	15.3	15.3	15.2	15.1	15	14.8	14.6	14.3	13.6	12.8	12	11	-	-	-	-	-	-	-	-	-	-
MMD4 65-250/4	4	5.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	19.3	19.1	18.8	18.5	17.5	16.5	15.5	14	12.5	10.4	-	-	-	-	-	-	-	-	-
MMD4 65-250/5.5	5.5	7.5	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	22.8	22.6	22.4	22.2	21.4	20.6	19.7	18.7	17.3	15.7	14	-	-	-	-	-	-	-	-
MMD4 80-160/1,5	1.5	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	7.6	7.5	7.3	7	6.7	6.4	6.1	5.7	5.4	5	-	-	-	-	-	-	-
MMD4 80-160/2,2	2.2	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	9.6	9.5	9.3	9	8.8	8.5	8.2	7.9	7.5	7.1	6	-	-	-	-	-	-
MMD4 80-200/3	3	4	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11.9	11.7	11.5	11.3	11	10.5	10	9.5	9	8.5	7	-	-	-	-	-	-
MMD4 80-200/4	4	5.5	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	14.3	14.2	14	13.8	13.5	13.1	12.6	12.2	11.6	11	9	6.5	-	-	-	-	-
MMD4 80-250/5,5	5.5	7.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.2	18.9	18.5	18	17.6	17.1	16.5	16	14	12	-	-	-	-	-
MMD4 80-250/7,5	7.5	10	23.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.3	22.1	21.9	21.7	21.3	21	20.5	20	18.5	16.9	14.5	-	-	-	-

Pump type	Motore		Q=Capacity																																		
			l/min	0	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8000	8500	9000	9500	10000							
			m³/h	0	54	60	66	72	78	84	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	480	510	540	570	600							
	kW	HP	H=Total head																																		
MMD4 100-200/4	4	5.5	13	12.3	12.2	12	11.8	11.6	11.4	11.2	10.3	9.3	8	6.6	4.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	--	-						
MMD4 100-200/5,5	5.5	7.5	14.7	14.5	14.4	14.2	14	13.8	13.6	13.4	12.8	12	11	9.8	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
MMD4 100-250/7,5	7.5	10	20	-	19.5	19.3	19.1	18.9	18.7	18.5	17.5	16.5	15.2	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
MMD4 100-250/9.2	9.2	12.5	22.4	-	22	21.9	21.8	21.7	21.6	21.5	20.5	19.5	18.5	17	15	12.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
MMD4 125-200/5,5	5.5	7.5	11.2	-	-	-	-	-	-	10.5	10.3	9.9	9.5	9.1	8.5	7.9	6.4	5.7	-	-	-	-	-	-	-	-	-	-	-	-						
MMD4 125-200/7.5 R	7.5	10	12.4	-	-	-	-	-	-	11.8	11.6	11.3	11	10.6	10.2	9.6	8.3	7.7	6.7	-	-	-	-	-	-	-	-	-	-	-						
MMD4 125-200/7.5	7.5	10	13.7	-	-	-	-	-	-	-	12.9	12.7	12.4	12.1	11.7	11.2	10.1	9.6	8.7	7.1*	-	-	-	-	-	-	-	-	-	-						
MMD4 125-200/9.2	9.2	12.5	15	-	-	-	-	-	-	-	14.3	14.1	13.8	13.6	13.2	12.8	11.8	11.3	10.6	9.2	7.6**	-	-	-	-	-	-	-	-	-						
MMD4 125-250/11	11	15	18.6	-	-	-	-	-	-	-	17.2	16.7	16.2	15.5	14.8	13.9	12	11.3	10	-	-	-	-	-	-	-	-	-	-	-						
MMD4 125-250/15	15	20	22	-	-	-	-	-	-	-	21	20.5	20.1	19.5	18.9	18.2	16.6	16	14.8	12.8	-	-	-	-	-	-	-	-	-	-						
MMD4 150-200/7.5	7.5	10	11.6	-	-	-	-	-	-	-	-	11	10.7	10.4	10.1	9.7	8.8	8.4	7.8	6.6	5.3	-	-	-	-	-	-	-	-	-						
MMD4 150-200/9.2	9.2	12.5	12.5	-	-	-	-	-	-	-	-	12	11.8	11.6	11.2	10.9	10.2	9.8	9.2	8	6.8	5.6	-	-	-	-	-	-	-	-						
MMD4 150-200/11	11	15	14.5	-	-	-	-	-	-	-	-	-	-	13.7	13.5	13.2	12.5	12.2	11.7	10.8	9.8	8.7	6.1	-	-	-	-	-	-	-						
MMD4 150-200/15	15	20	15.8	-	-	-	-	-	-	-	-	-	-	15.2	14.9	14.7	14.2	13.8	13.4	12.5	11.6	10.5	8.2	6.8	-	-	-	-	-	-						
MMD4 200-250/18.5 R	18.5	25	16	-	-	-	-	-	-	-	-	-	-	-	-	14.9	14.5	14.3	14.1	13.6	13	12.3	11	10.3	8.6	7.8	-	-	-	-						
MMD4 200-250/18.5	18.5	25	16.9	-	-	-	-	-	-	-	-	-	-	-	-	15.9	15.5	15.3	15.2	14.7	14.2	13.6	12.3	11.6	10	9.1	8.2	-	-	-						
MMD4 200-250/22 R	22	30	19.3	-	-	-	-	-	-	-	-	-	-	-	-	-	18	17.8	17.6	17.1	16.6	16	14.7	13.9	12.2	11.2	10.1	9	-	-						
MMD4 200-250/22	22	30	20.4	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1	18.9	18.8	18.3	17.8	17.3	16	15.3	13.7	12.7	11.7	10.7	9.6							

*Suction head has not to exceed 2 m
**Positive 1 m suction head

3" Borehole pumps suitable for handling clear water in wells, clean water boosting for agricultural, domestic or industrial use, rrigation and handling water in general.

SPECIFICATIONS

- Max immersion: 60 m
- Max temperature: 30°C

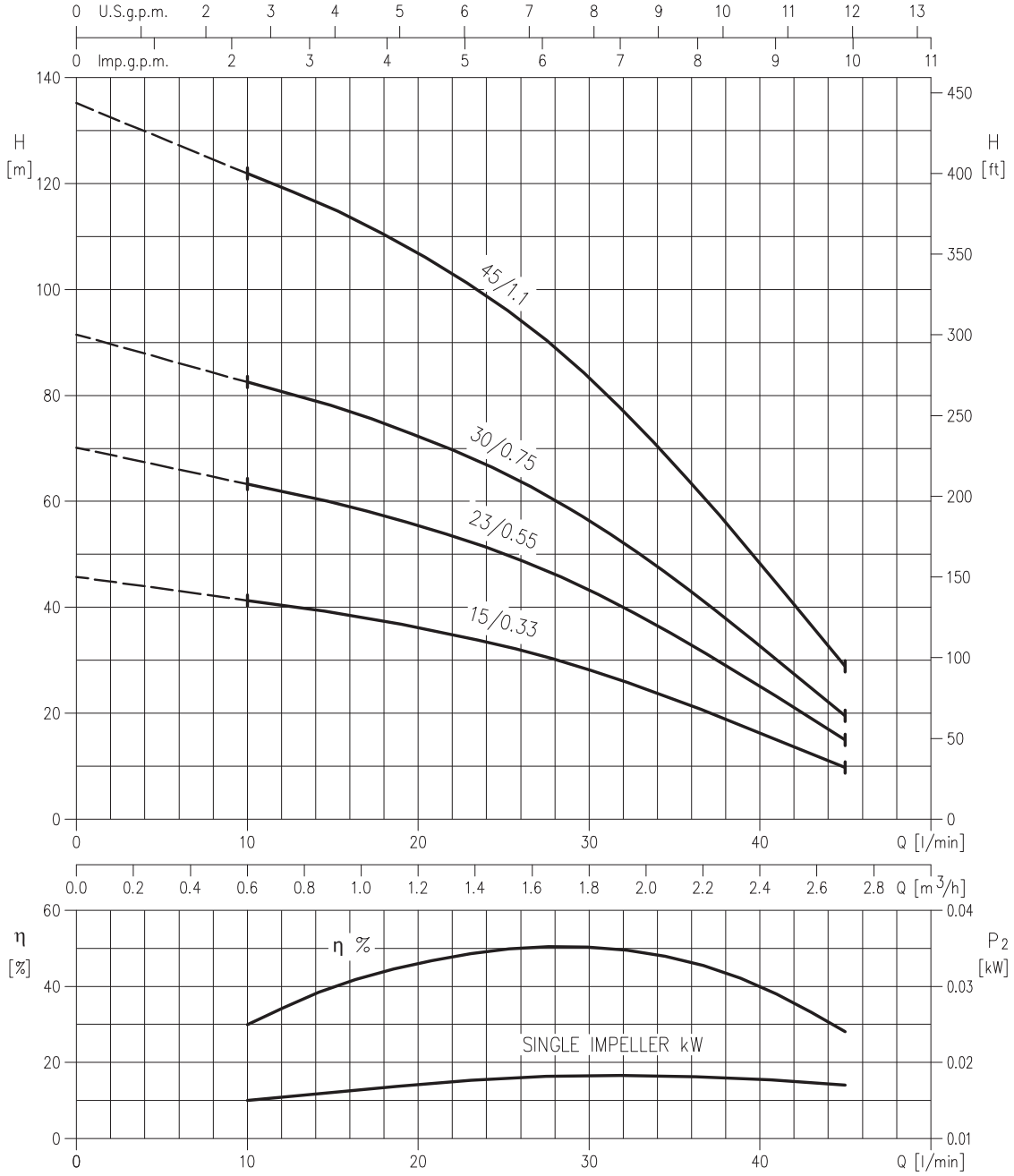
MATERIAL

- Jacket, delivery port, motor connection in AISI 304
- Diffusers in polyacetals
- Impeller in PPO mod. glass fibre renforced

TECHNICAL DATA

- Insulation class F
- Protection degree IP 58
- 1~ 230 V (+6 -10%) 50 Hz , 3~ 400 (+6 -10%) 50 Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1"

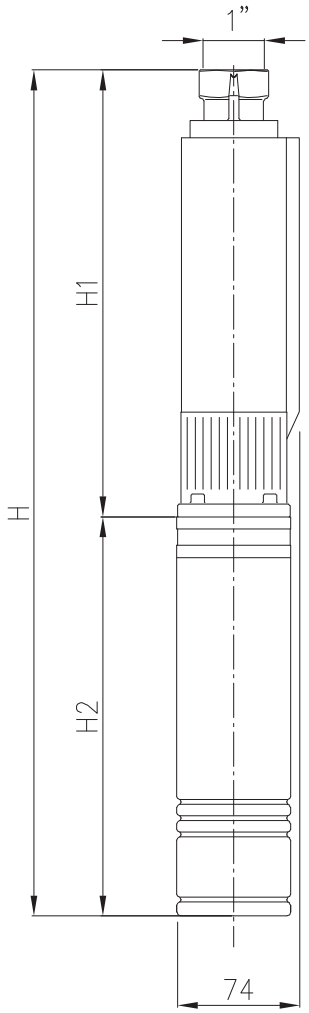
PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type	Motor size	kW	HP	Q=Capacity l/min	0	10	15	20	25	30	35	40	45
				m³/h	0	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7
				H=Total head									
SB 3-15	3"	0,37	0,50		46	41,5	39	36,2	32,7	28,2	22,7	16,5	9,8
SB 3-23	3"	0,55	0,75		70,5	63,5	60	55,5	50	43,5	34,7	25,1	15
SB 3-30	3"	0,75	1,0		91,5	82,5	78	72,5	65,5	56,5	45,5	32,7	19,5
SB 3-45	3"	1,1	1,1		135,5	122	115	107	96,5	83,5	67	48,5	28,8

SB 3



DIMENSIONAL TABLE

Pump type	Power		Pump without motor	Single-phase		Three-phase		Weight	Weight of pump with motor	
	kW	HP	H1 (mm)	H2 (mm)	H (mm)	H2 (mm)	H (mm)	(kg)	Single-phase (kg)	Three-phase (kg)
SB 3-15	0,37	0,50	580	377	957	377	957	3,3	9,3	9,3
SB 3-23	0,55	0,75	780	397	1177	377	1157	4,4	10,8	10,5
SB 3-30	0,75	1	1000	416	4116	397	1397	5,6	12,4	12
SB 3-45	1,1	1,5	1380	-	-	416	1796	7,6	-	14,4

WINNER 4N

4" BOREHOLE PUMPS

New submersible motor-driven centrifugal pumps with front distancing plate for impeller suitable for handling clear water in wells, clean water boosting for agricultural, domestic or industrial use, irrigation and handling water in general.

SPECIFICATIONS

- Max immersion:
  150 mm for submersible oil filled pump (OY)
  350 m for submersible water filled pumps (WY)
- Max temperature: 40°C (depends on max. motor temp.)
- Max sand content: 50 ppm

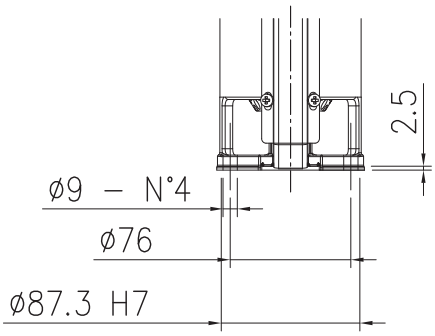
MATERIAL

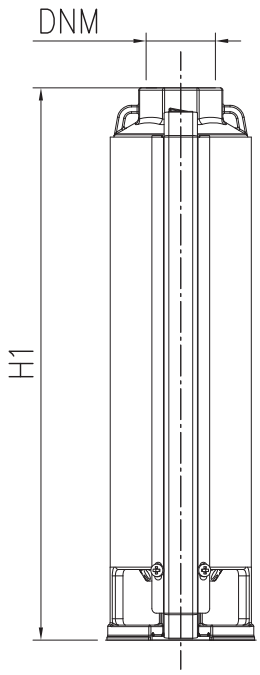
- External casing, shaft, discharge casing and valve in AISI 304
- Impeller in tecnopolymer
- Diffuser in PPO mod. glass fibre reinforced

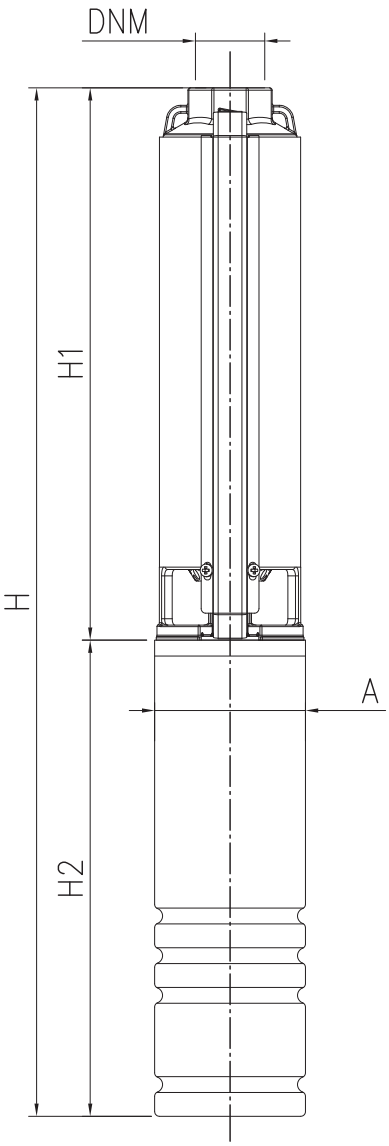
TECHNICAL DATA

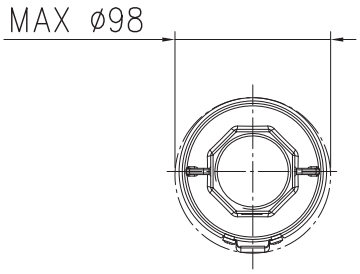
- 2 poles motor water filled (WY) and filled (OY)
- Max starts hour: 35 (OY) - 30 (WY)
- Insulation class: F (OY) - B (WY)
- Protection degree: IP58 (OY) - IP68 (WY)
- Voltage: singlephase 230V (+6% -10%) 50 Hz (OYM), threephase 400V (+6 -10%) 50 Hz (OY)
  singlephase 230V (±6%) 50 Hz (WYM), threephase 400V (±6%) 50 Hz (WY)
- Discharge: 1"1/4 for models 4N1, 4N2, 4N4
  2" for models 4N7, 4N10, 4N15

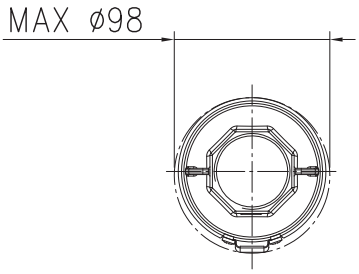
DIMENSIONS WINNER 4N









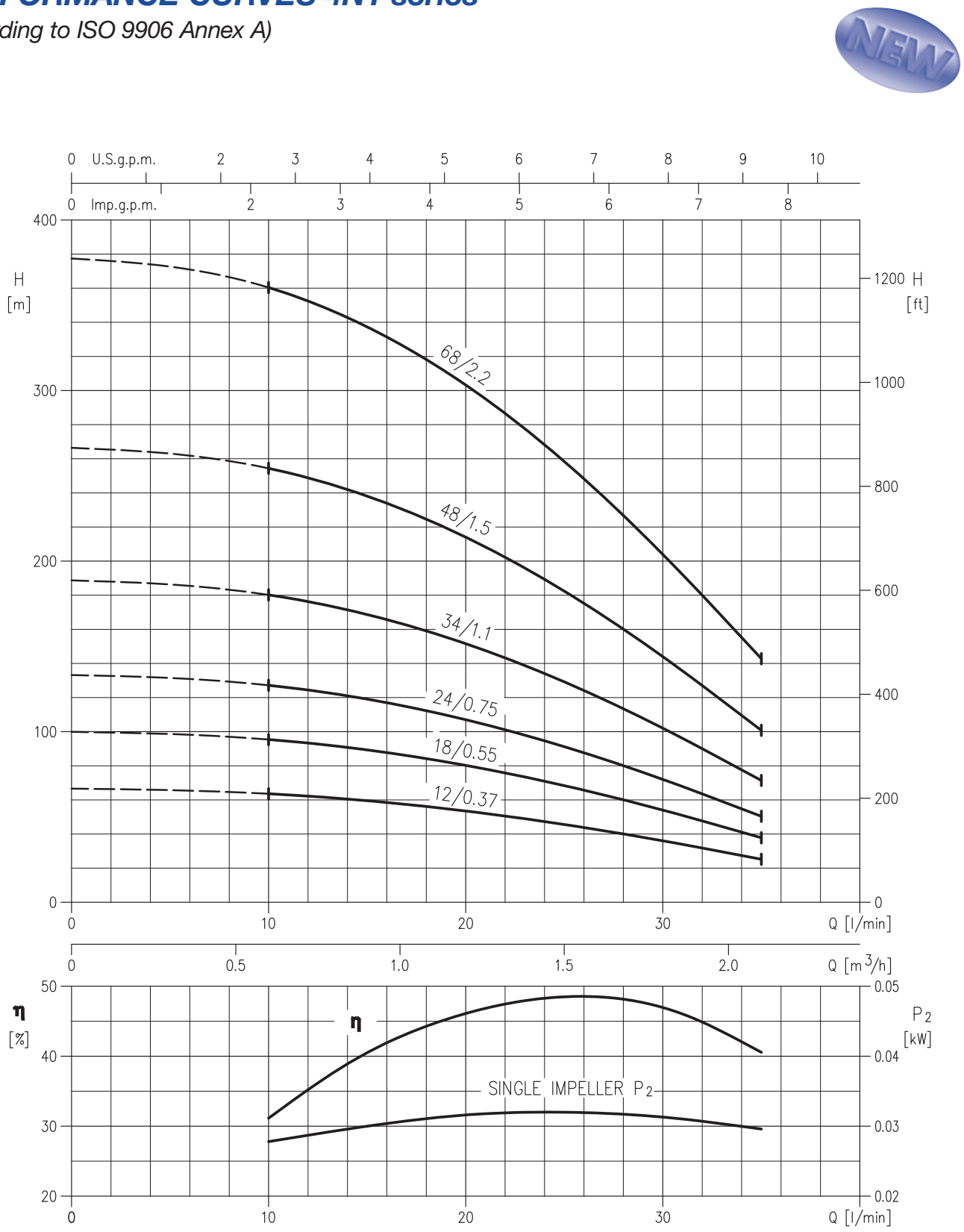


DIMENSIONAL TABLE

Pump type	Power		Pump without motor		Pump with oil filled motor						Pump with water filled motor					
					single phase			three phase			Single phase			Three phase		
			H1	DNM	A	H2	H	A	H2	H	A	H2	H	A	H2	H
	kW	HP		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
4N1/12	0,37	0,5	332	G 1¼"	97	325	657	97	304	636	97	242	574	97	223	555
4N1/18	0,55	0,75	437	G 1¼"	97	325	762	97	325	762	97	271	708	97	242	679
4N1/24	0,75	1	542	G 1¼"	97	350	892	97	325	867	97	299	841	97	271	813
4N1/34	1,1	1,5	717	G 1¼"	97	385	1102	97	350	1067	97	356	1073	97	299	1016
4N1/48	1,5	2	1028	G 1¼"	97	420	1448	97	385	1413	97	384	1412	97	327	1355
4N1/68	2,2	3	1378	G 1¼"	97	470	1848	97	420	1798	97	460	1838	97	356	1734
4N2/7	0,37	0,5	245	G 1¼"G	97	325	570	97	304	549	97	242	487	97	223	468
4N2/10	0,55	0,75	297	1¼"	97	325	622	97	325	622	97	271	568	97	242	539
4N2/14	0,75	1	367	G 1¼"G	97	350	717	97	325	692	97	299	666	97	271	638
4N2/20	1,1	1,5	472	1¼"G 1¼"	79	385	857	79	350	822	79	356	828	79	299	771
4N2/28	1,5	2	612	G 1¼"G	97	420	1032	97	385	997	97	384	996	97	327	939
4N2/40	2,2	3	888	1¼"G 1¼"	97	470	1358	97	420	1308	97	160	1348	97	356	1244
4N2/56	3	4	1168	G 1¼"G	97	-	-	97	544	1712	97	-	-	97	423	1591
4N4/4	0,37	0,5	208	1¼"G 1¼"	97	325	533	97	304	512	97	242	450	97	223	431
4N4/7	0,55	0,75	273	G 1¼"	97	325	598	97	325	598	97	271	544	97	242	515
4N4/9	0,75	1	316	G 1¼"G	97	350	666	97	325	641	97	299	615	97	271	587
4N4/13	1,1	1,5	402	1¼"G 1¼"	97	385	787	97	350	752	97	356	758	97	299	701
4N4/18	1,5	2	509	G 2"	97	420	929	97	385	894	97	384	893	97	327	836
4N4/27	2,2	3	703	G 2"	97	470	1173	97	420	1123	97	460	1163	97	356	1059
4N4/36	3	4	962	G 2"	97	-	-	97	544	1506	97	-	-	97	423	1385
4N4/48	4	5,5	1220	G 2"	97	-	-	97	574	1794	97	-	-	97	583	1803
4N7/4	0,55	0,75	262	G 2"	97	325	587	97	325	587	97	271	533	97	242	504
4N7/6	0,75	1	333	G 2"	97	350	683	97	325	658	97	299	632	97	271	604
4N7/8	1,1	1,5	404	G 2"	97	385	789	97	350	754	97	356	760	97	299	703
4N7/12	1,5	2	546	G 2"	97	420	966	97	385	931	97	384	930	97	327	873
4N7/17	2,2	3	724	G 2"	97	470	1194	97	420	1144	97	460	1184	97	356	1080
4N7/23	3	4	937	G 2"	97	-	-	97	544	1481	97	-	-	97	423	1360
4N7/30	4	5,5	1251	G 2"	97	-	-	97	574	1825	97	-	-	97	583	1834
4N7/42	5,5	7,5	1677	G 2"	97	-	-	97	644	2321	97	-	-	97	698	2375
4N10/4	0,75	1	262	G 2"	97	350	612	97	325	587	97	299	561	97	271	533
4N10/6	1,1	1,5	333	G 2"	97	385	718	97	350	683	97	356	689	97	299	632
4N10/8	1,5	2	404	G 2"	97	420	824	97	385	789	97	384	788	97	327	731
4N40/12	2,2	3	546	G 2"	97	470	1016	97	420	966	97	460	1006	97	356	902
4N10/17	3	4	724	G 2"	97	-	-	97	544	1268	97	-	-	97	423	1147
4N10/23	4	5,5	937	G 2"	97	-	-	97	574	1511	97	-	-	97	583	1520
4N10/30	5,5	7,5	1251	G 2"	97	-	-	97	644	1895	97	-	-	97	698	1949
4N10/42	7,5	10	1677	G 2"	97	-	-	97	805	2482	97	-	-	97	774	2451
4N15/4	1,1	1,5	440	G 2"	79	385	825	79	350	790	79	356	796	79	299	739
4N15/6	1,5	2	600	G 2"	97	420	1020	97	385	985	97	384	984	97	327	927
4N15/9	2,2	3	840		97	470	1310	97	420	1260	97	460	1300	97	356	1196
4N15/13	3	4	1160		97	-	-	97	544	1704	97	-	-	97	423	1583
4N15/17	4	5,5	1480		97	-	-	97	574	2054	97	-	-	97	583	2063
4N15/24	5,5	7,5	2106		97	-	-	97	644	2750	97	-	-	97	698	2804

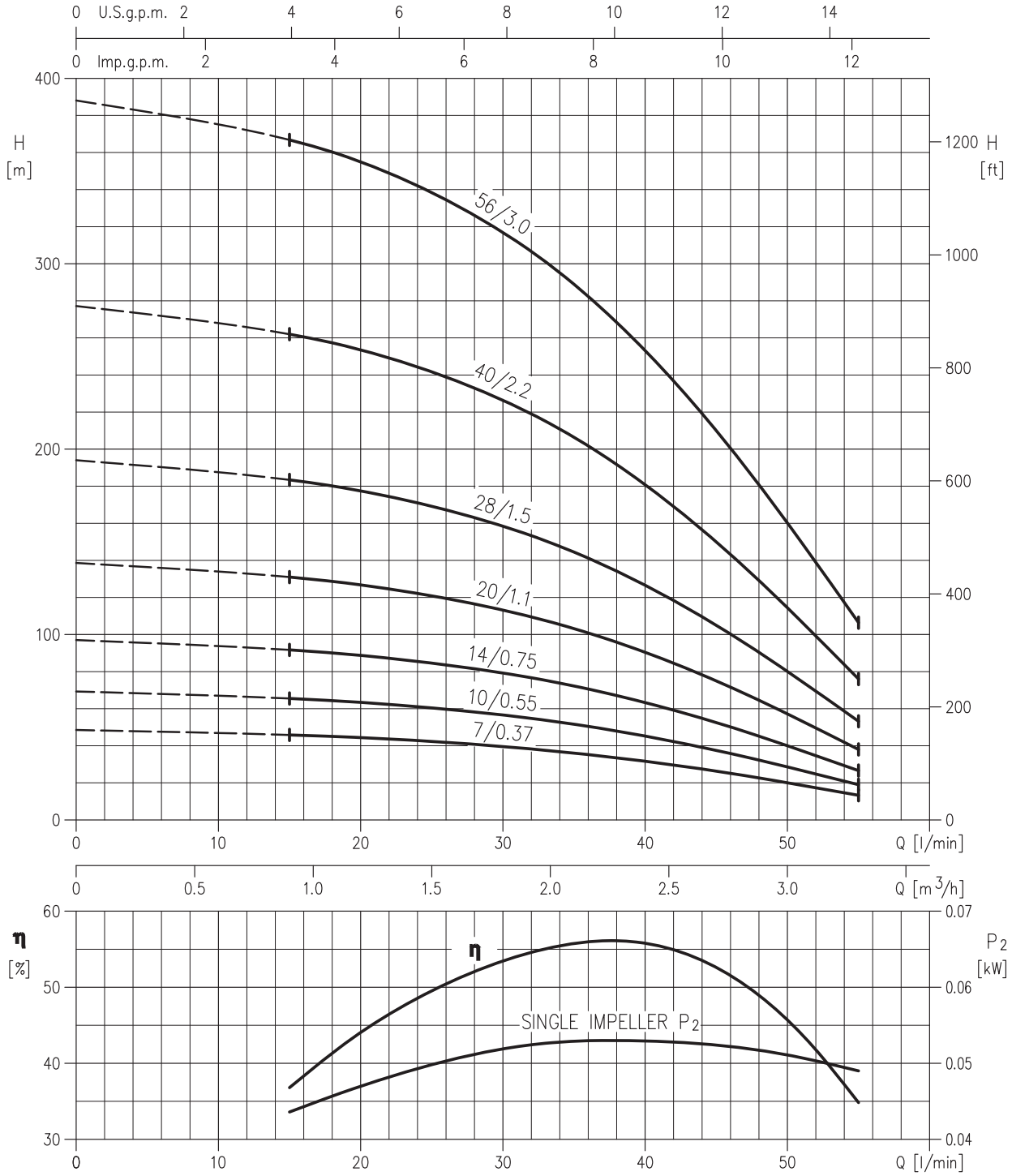
PERFORMANCE CURVES 4N1 series

(according to ISO 9906 Annex A)



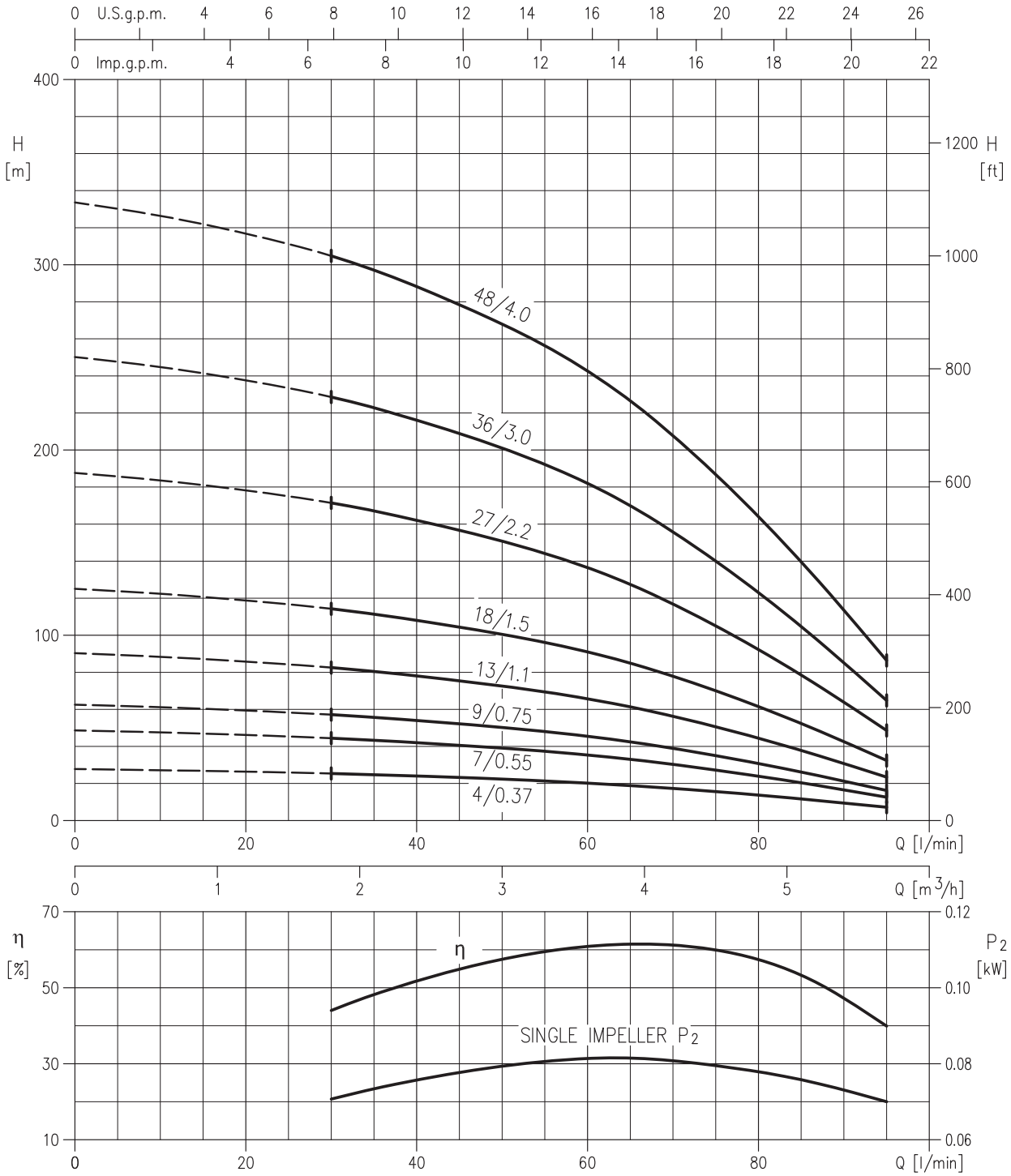
PERFORMANCE CURVES 4N2 series

(according to ISO 9906 Annex A)



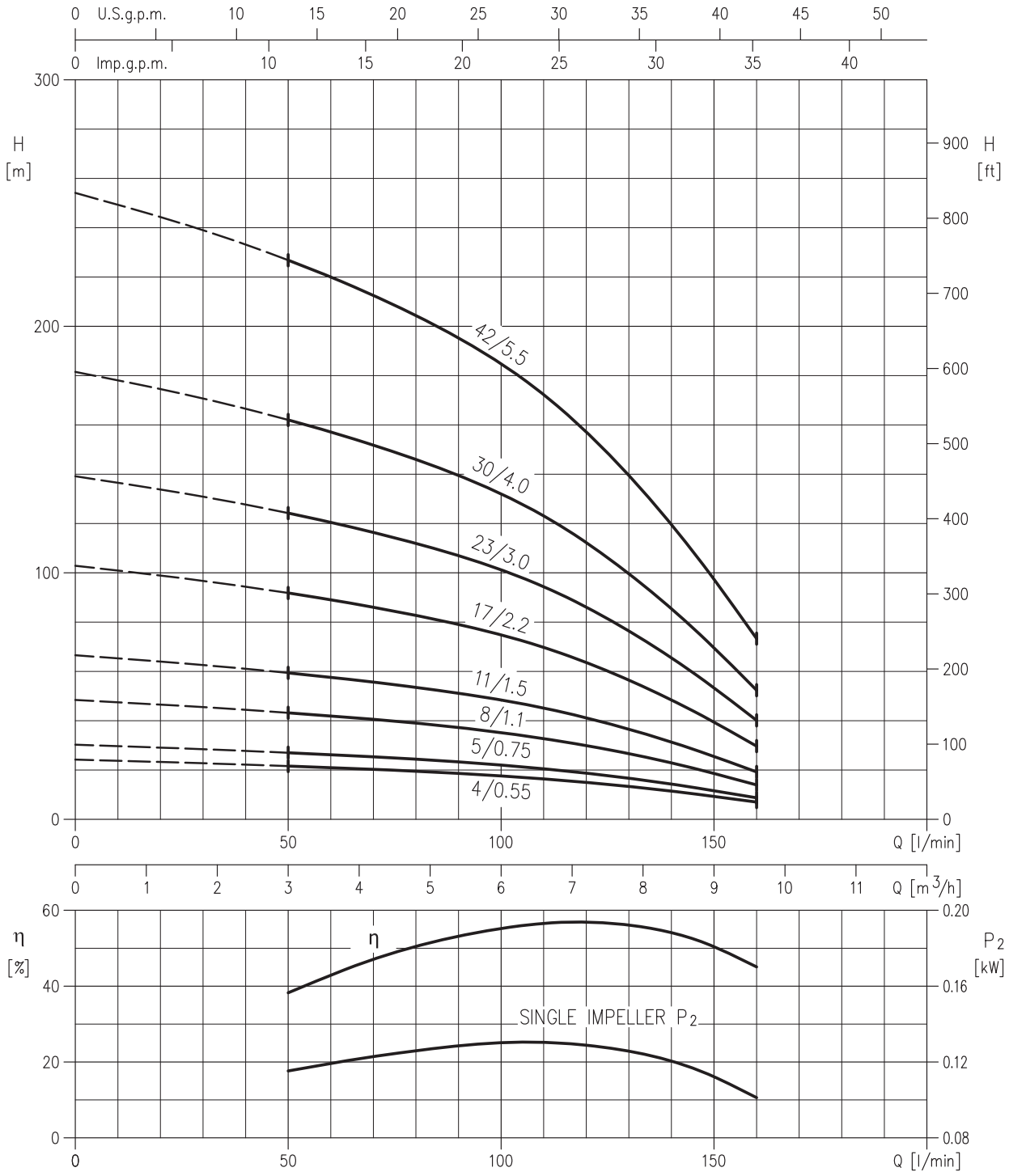
PERFORMANCE CURVES 4N4 series

(according to ISO 9906 Annex A)



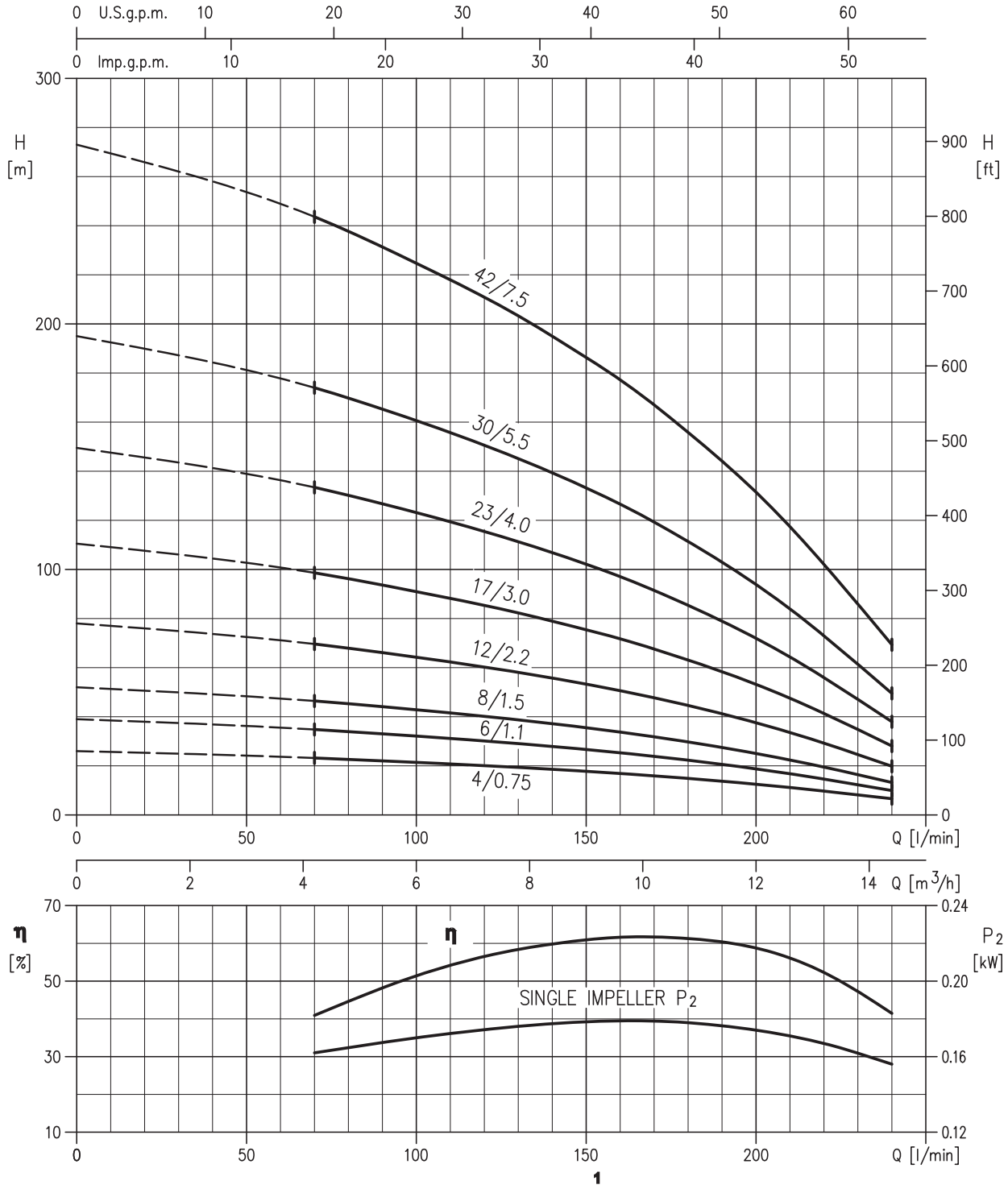
PERFORMANCE CURVES 4N7 series

(according to ISO 9906 Annex A)



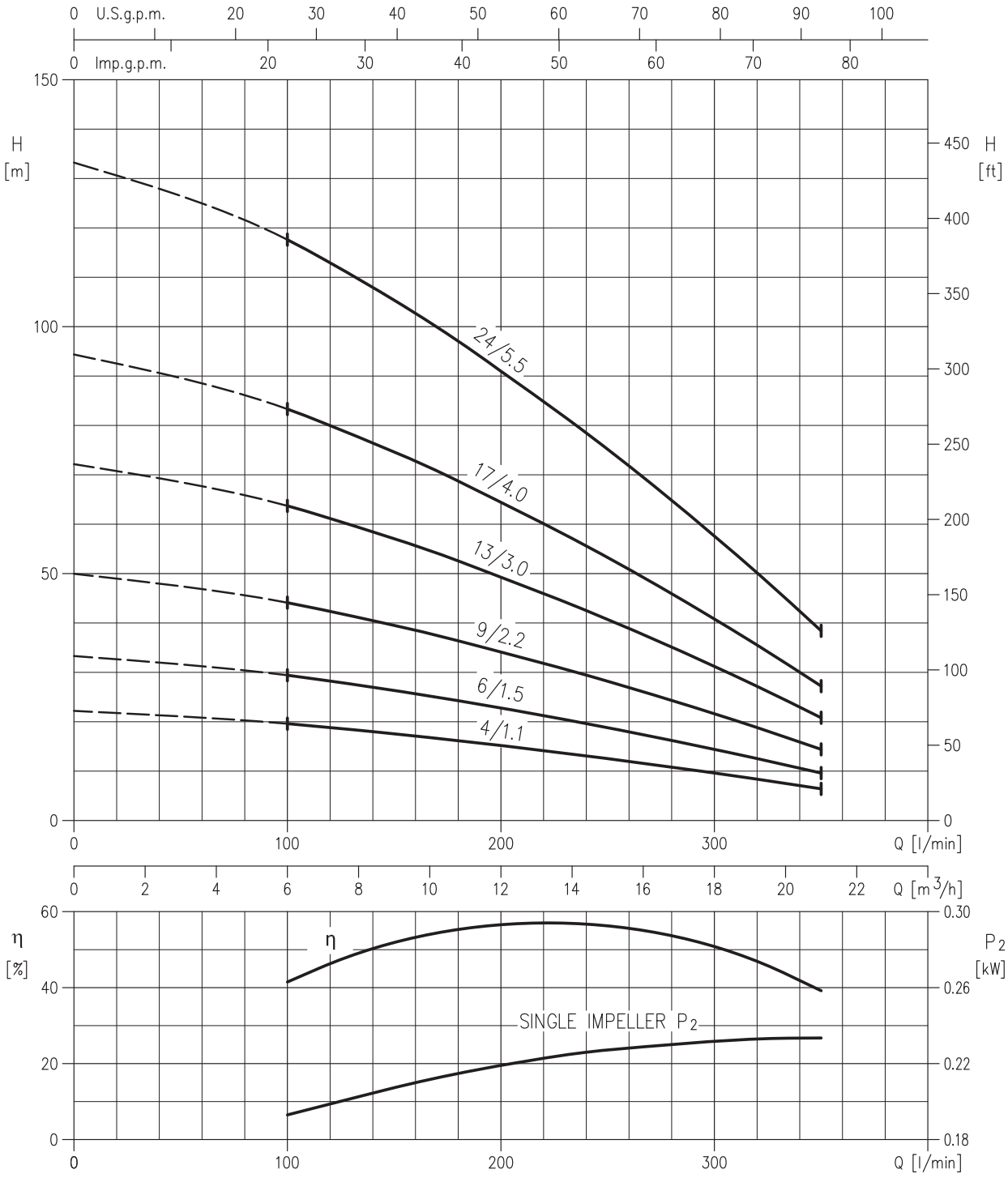
PERFORMANCE CURVES 4N10 series

(according to ISO 9906 Annex A)

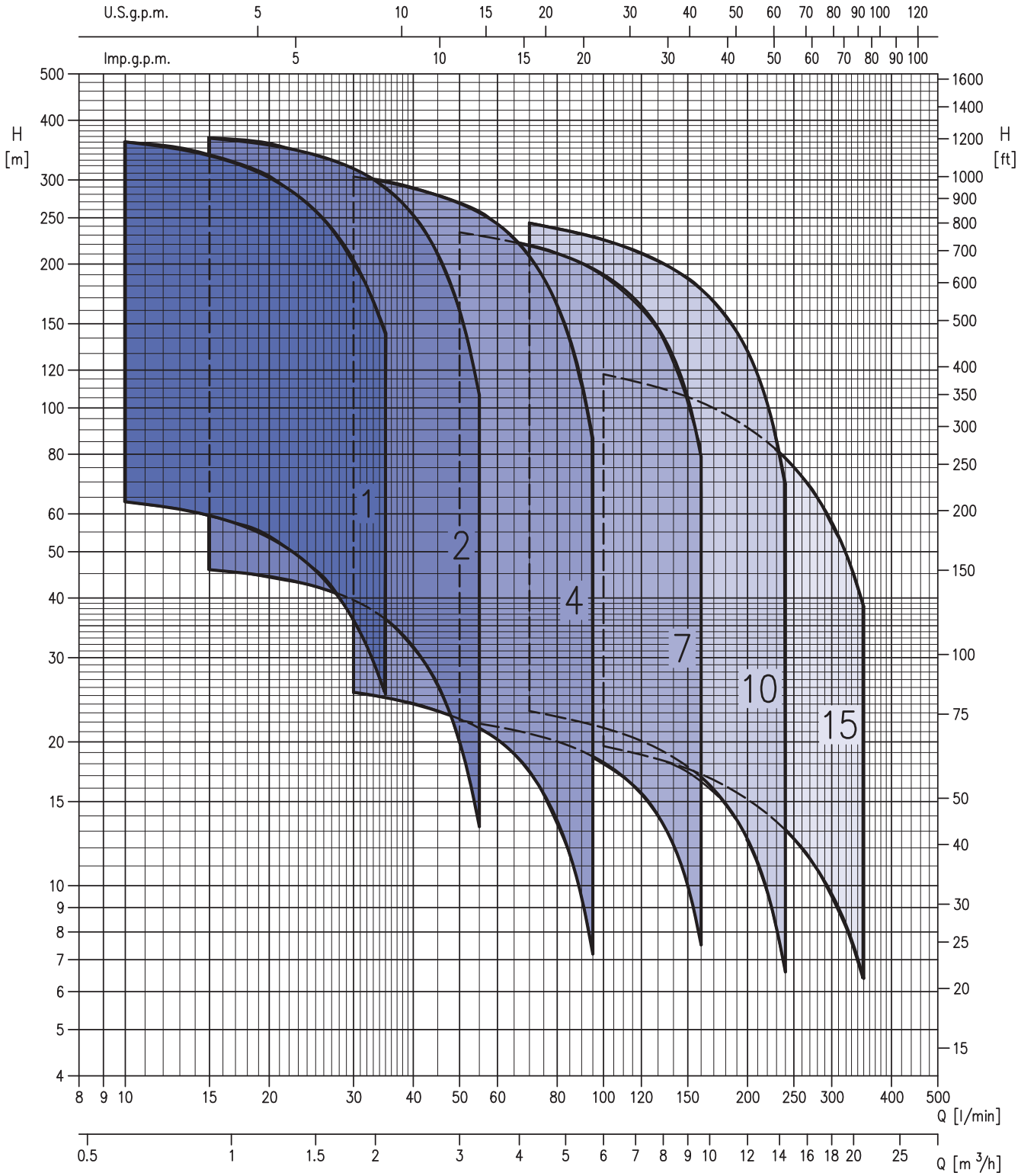


PERFORMANCE CURVES 4N15 series

(according to ISO 9906 Annex A)



PERFORMANCE CHART *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

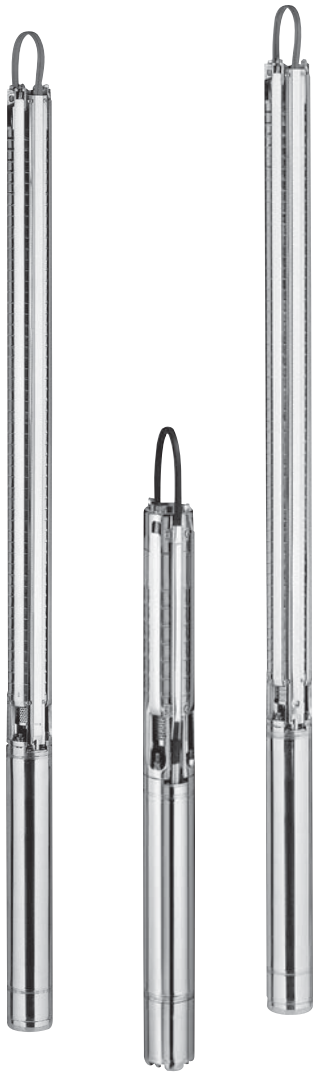
Pump type	Motor		Q=Capacity										
			l/min	0	10	15	20	25	30	35	45	55	75	95
			m³/h	0	0,6	0,9	1,2	1,5	1,8	2,1	2,7	3,3	4,5	5,7
	kW	HP	H=Total Head											
4N1/12	0,37	0,5	67	64	60	54	46	36	25	-	-	-	-
4N1/18	0,55	0,7	100	95	89	80	68	54	38	-	-	-	-
4N1/24	0,75	1	133	127	119	107	91	72	50	-	-	-	-
4N1/34	1,1	1,5	189	180	169	152	129	102	71	-	-	-	-
4N1/48	1,5	2	266	254	238	214	182	144	101	-	-	-	-
4N1/68	2,2	3	377	360	337	303	258	204	143	-	-	-	-
4N2/7	0,37	0,5	49	-	46	44	42	40	36	26	13	-	-
4N2/10	0,55	0,7	69	-	66	63	60	57	52	38	19	-	-
4N2/14	0,75	1	97	-	92	89	85	79	72	53	27	-	-
4N2/20	1,1	1,5	139	-	131	127	121	113	103	75	38	-	-
4N2/28	1,5	2	194	-	183	178	169	158	144	105	53	-	-
4N2/40	2,2	3	277	-	262	254	242	226	206	150	76	-	-
4N2/56	3	4	388	-	367	355	338	317	289	210	106	-	-
4N4/4	0,37	0,5	28	-	-	-	-	25	25	23	21	16	7
4N4/7	0,55	0,7	49	-	-	-	-	44	43	41	37	27	13
4N4/9	0,75	1	63	-	-	-	-	57	56	52	48	35	16
4N4/13	1,1	1,5	90	-	-	-	-	83	80	75	69	51	23
4N4/18	1,5	2	125	-	-	-	-	114	111	104	96	70	32
4N4/27	2,2	3	188	-	-	-	-	171	167	157	144	105	49
4N4/36	3	4	250	-	-	-	-	229	223	209	192	140	65
4N4/48	4	5,5	334	-	-	-	-	305	297	278	256	187	86

Pump type	Motor		Q=Capacity										
			l/min	0	50	70	100	130	160	200	240	280	320	350
			m³/h	0	3,0	4,2	6,0	7,8	9,6	12,0	14,4	16,8	19,2	21,0
	kW	HP	H=Total Head											
4N7/4	0,55	0,7	25	22	21	18	14	8	-	-	-	-	-
4N7/6	0,75	1,0	37	33	31	27	21	11	-	-	-	-	-
4N7/8	1,10	1,5	50	44	42	36	28	15	-	-	-	-	-
4N7/12	1,50	2,0	74	67	62	54	42	23	-	-	-	-	-
4N7/17	2,20	3,0	105	94	88	77	60	32	-	-	-	-	-
4N7/23	3,00	4,0	143	128	120	104	81	43	-	-	-	-	-
4N7/30	4,00	5,5	186	167	156	136	105	56	-	-	-	-	-
4N7/42	5,50	7,5	260	233	219	190	147	79	-	-	-	-	-
4N10/4	0,75	1,0	26	-	23	21	19	17	13	7	-	-	-
4N10/6	1,10	1,5	39	-	35	32	29	25	19	10	-	-	-
4N10/8	1,50	2,0	52	-	46	43	39	34	25	13	-	-	-
4N10/12	2,20	3,0	78	-	70	64	58	51	38	20	-	-	-
4N10/17	3,00	4,0	111	-	99	91	82	72	53	28	-	-	-
4N10/23	4,00	5,5	150	-	133	123	111	97	72	38	-	-	-
4N10/30	5,50	7,5	195	-	174	161	145	127	94	50	-	-	-
4N10/42	7,50	10,0	273	-	244	225	203	177	131	69	-	-	-
4N15/4	1,10	1,5	22	-	-	20	18	17	15	13	11	8	6
4N15/6	1,50	2,0	33	-	-	29	28	26	23	20	16	13	10
4N15/9	2,20	3,0	50	-	-	44	41	39	34	29	24	19	14
4N15/13	3,00	4,0	72	-	-	64	60	56	49	43	35	27	21
4N17/17	4,00	5,5	94	-	-	83	78	73	64	56	46	36	27
4N15/24	5,50	7,5	133	-	-	118	110	103	91	78	65	50	38

4BHS

4" BOREHOLE CENTRIFUGAL PUMPS in AISI 304

4" borehole multistage pump entirely made of stainless steel AISI 304. The smooth surface of the impellers and diffusers offer an improved efficiency, and reliability factor. Applications include clean water extraction from boreholes, pressure boosting for domestic, farming and industrial applications. Installation can be horizontal as well as vertical. The 4BHS can be fitted to any NEMA standard motor. Comes in two versions: W4BHS with water-bath motor, O4BHS with oil-bath motor.



SPECIFICATIONS

- Maximum immersion: 150 m
- Maximum liquid temperature: 30°C
- Maximum sand content: 50 ppm

MATERIALS

- Casing and pump bracket in stainless steel
- Radial bearing, axial thrust bearing and friction ring in tungsten carbide
- Suction and discharge ports, coupling, impeller, diffuser, diffuser cover, valve, tie-rod and cable guard in AISI 304
- Liner ring in EPDM/AISI 304: replaceble and floating
- Shaft in AISI 316

TECHNICAL DATA

Pumps can be requested to be coupled with the following motor versions:

- Pump O4BHS with motor OY in coolant liquid bath
- Pump W4BHS with motor WY in water bath

Both types of motor have the following features:

- 2 poles motor, water filled (WY version) or oil filled (OY version)
- Maximum startings/hour: 30
- Insulation class F (OY version) or B (WY version)
- Protection degree IP58
- 1~230V +6 -10% 50 Hz, 3~400V +6 -10% 50 Hz (OY version)
- 1~230V ± 6% 50 Hz, 3~400V ± 6% 50 Hz (WY version)

PERFORMANCE TABLE

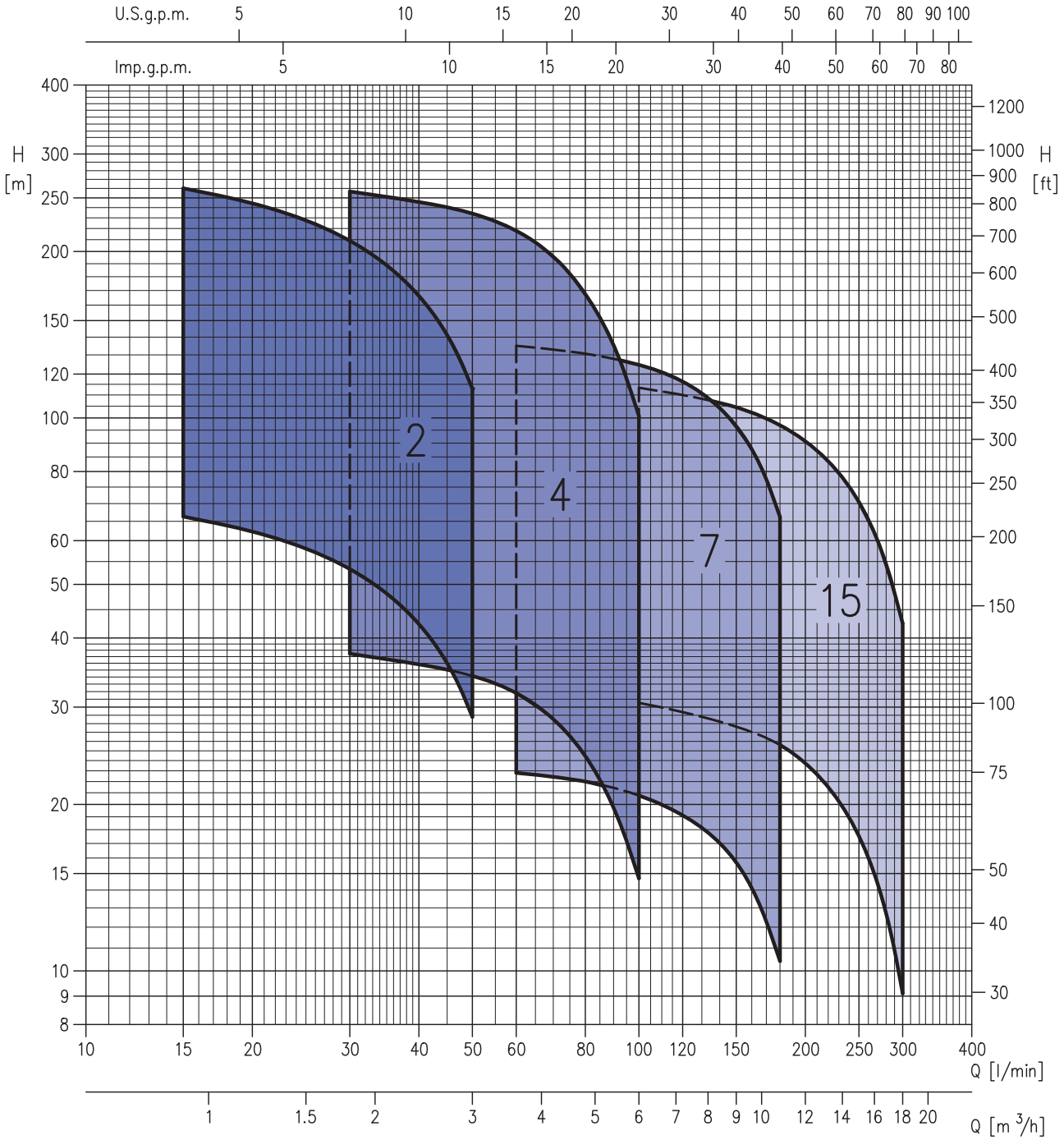
Pump type Single-phase	kW	Capacitor µF W	Capacitor µF O	Capacitor Vc	Absorbed Current (A) Single-phase 220V W	Absorbed Current (A) Single-phase 220V O
4BHS2 13/5M	0,55	20	25	450	4,8	4,5
4BHS2 18/7M	0,75	30	35	450	5,6	6
4BHS2 27/11M	1,1	40	40	450	9,7	8,2
4BHS2 36/15M	1,5	60	60	450	12	11
4BHS2 44/22M	2,2	80	80	450	16,6	14,8
4BHS2 51/22M	2,2	80	80	450	16,6	14,8
4BHS4 7/5M	0,55	20	25	450	4,8	4,5
4BHS4 10/7M	0,75	30	35	450	5,6	6
4BHS4 15/11M	1,1	40	40	450	9,7	8,2
4BHS4 20/15M	1,5	60	60	450	12	11
4BHS4 24/22M	2,2	80	80	450	16,6	14,8
4BHS4 29/22M	2,2	80	80	450	16,6	14,8
-	-	-	-	-	-	-
-	-	-	-	-	-	-
4BHS57 4/7M	0,75	30	35	450	5,6	6
4BHS7 7/11M	1,1	40	40	450	9,7	8,2
4BHS7 10/15M	1,5	60	60	450	12	11
4BHS7 12/22M	2,2	80	80	450	16,6	14,8
4BHS7 14/22M	2,2	80	80	450	16,6	14,8
-	-	-	-	-	-	-
-	-	-	-	-	-	-
4BHS15 7/15M	1,5	60	60	450	12	10,6
4BHS15 10/22M	2,2	80	80	450	16,6	14,9
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Pump type Three-phase	kW	Absorbed Current (A) Three-phase 380V W	Absorbed Current (A) Three-phase 380V O
4BHS2 13/5	0,55	2,0	2
4BHS2 18/7	0,75	2,5	2,6
4BHS2 27/11	1,1	3,4	3,4
4BHS2 36/15	1,5	4,5	4,6
4BHS2 44/22	2,2	6,1	6,2
4BHS2 51/22	2,2	6,1	6,2
4BHS4 7/5	0,55	1,9	2
4BHS4 10/7	0,75	2,4	2,6
4BHS4 15/11	1,1	3,2	3,4
4BHS4 20/15	1,5	4,3	4,6
4BHS4 24/22	2,2	5,8	6,2
4BHS4 29/22	2,2	5,8	6,2
4BHS4 36/30	3,0	7,7	8
4BHS4 48/40	4,0	10,1	10,2
4BHS7 4/7	0,75	2,4	2,6
4BHS7 7/11	1,1	3,2	3,4
4BHS7 10/15	1,5	4,3	4,4
4BHS7 12/22	2,2	5,8	6,2
4BHS7 14/22	2,2	5,8	6,2
4BHS7 18/30	3,0	7,7	8
4BHS7 23/40	4,0	10,1	10,2
4BHS15 7/15	1,5	4,3	4,6
4BHS15 10/22	2,2	5,8	6,2
4BHS15 13/30	3,0	7,7	8
4BHS15 17/40	4,0	10,1	10,2
4BHS15 25/55	5,5	13,8	14,4

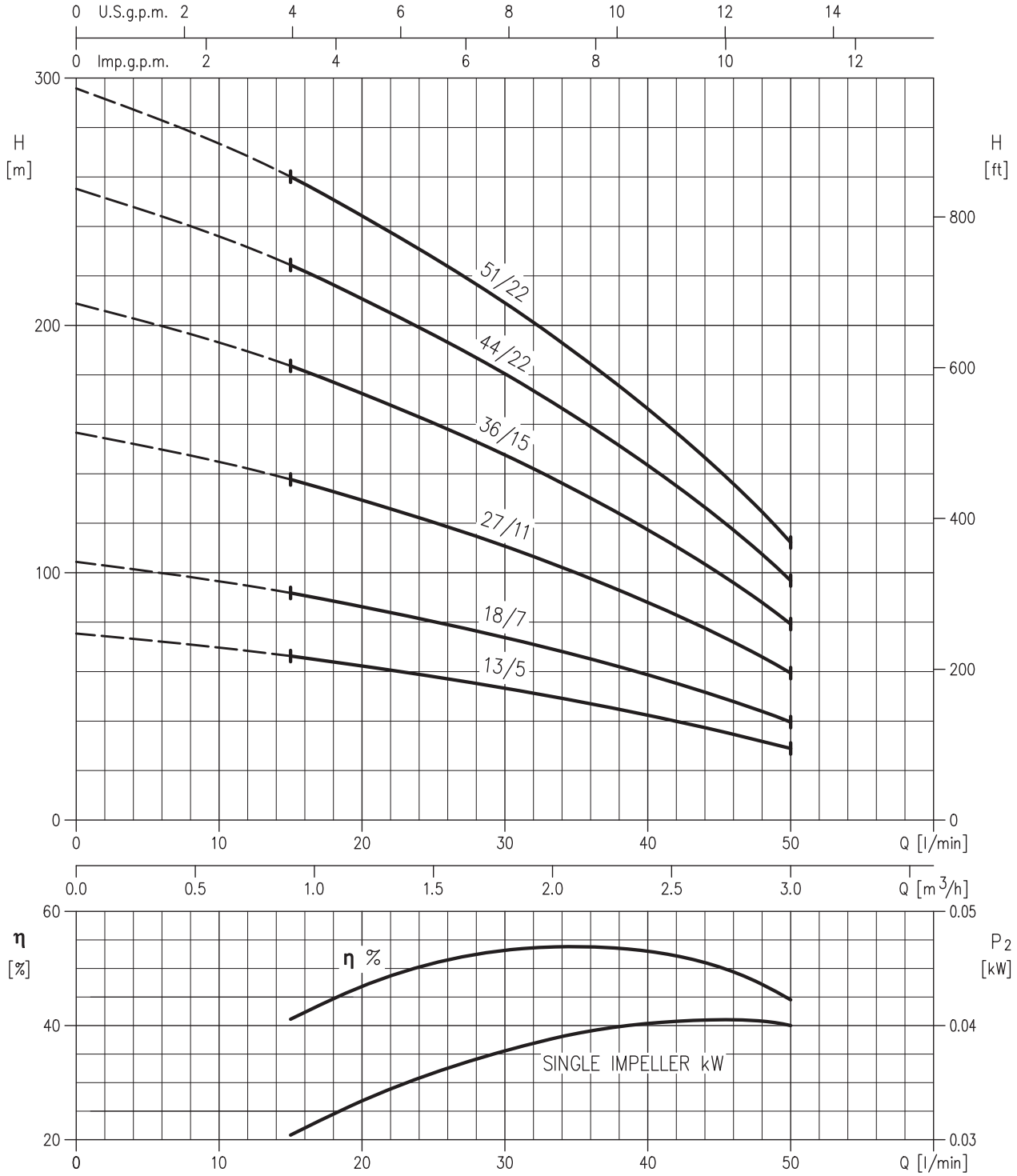
PERFORMANCE TABLE

Pump type Single phase	Pump type Three phase	Power kW	Power HP	Q=Capacity l/min	0	15	20	30	40	50	60	80	100	120	150	180	220	260	300
				m³/h	0	0,9	1,2	1,8	2,4	3,0	3,6	4,8	6	7,2	9	10,8	13,2	15,6	18
				H=Total head															
4BHS2 13/5M	4BHS2 13/5	0,55	0,75		75,5	66,5	62,5	53,5	42,5	28,6	-	-	-	-	-	-	-	-	-
4BHS2 18/7M	4BHS2 18/7	0,75	1,0		104	92	86	74	58,5	39,6	-	-	-	-	-	-	-	-	-
4BHS2 27/11M	4BHS2 27/11	1,1	1,5		157	138	129	111	88	59,5	-	-	-	-	-	-	-	-	-
4BHS2 36/15M	4BHS2 36/15	1,5	2,0		209	184	172	148	117	79	-	-	-	-	-	-	-	-	-
4BHS2 44/22M	4BHS2 44/22	2,2	3,0		255	224	211	180	143	97	-	-	-	-	-	-	-	-	-
4BHS2 51/22M	4BHS2 51/22	2,2	3,0		296	260	244	209	166	112	-	-	-	-	-	-	-	-	-
4HHS4 7/5M	4HHS4 7/5	0,55	0,75		43	-	-	37,5	35,8	34,2	31,8	24,4	14,7	-	-	-	-	-	-
4BHS4 10/7M	4BHS4 10/7	0,75	1,0		61,5	-	-	53,5	51	49	45,5	34,9	21	-	-	-	-	-	-
4BHS4 15/11M	4BHS4 15/11	1,1	1,5		92,5	-	-	80,5	77	73	68	52,5	31,5	-	-	-	-	-	-
4BHS4 20/15M	4BHS4 20/15	1,5	2,0		123	-	-	107	102	97,5	91	70	42	-	-	-	-	-	-
4BHS4 24/22M	4BHS4 24/22	2,2	3,0		148	-	-	128	123	117	109	84	50,5	-	-	-	-	-	-
4BHS4 29/22M	4BHS4 29/22	2,2	3,0		178	-	-	155	148	142	132	101	61	-	-	-	-	-	-
-	4BHS4 36/30	3,0	4,0		221	-	-	193	184	176	163	126	75,5	-	-	-	-	-	-
-	4BHS4 48/40	4,0	5,5		295	-	-	257	246	234	218	168	101	-	-	-	-	-	-
4BHS7 4/7M	4BHS7 4/7	0,75	1,0		24,6	-	-	-	-	-	22,8	22	20,8	19,1	15,7	10,4	-	-	-
4BHS7 7/11M	4BHS7 7/11	1,1	1,5		43	-	-	-	-	-	39,9	38,5	36,3	33,5	27,5	18,2	-	-	-
4BHS7 10/15M	4BHS7 10/15	1,5	2,0		61,5	-	-	-	-	-	57	55	52	48	39,3	26	-	-	-
4BHS7 12/22M	4BHS7 12/22	2,2	3,0		74	-	-	-	-	-	68,5	66	62,5	57,5	47	31,3	-	-	-
4BHS7 14/22M	4BHS7 14/22	2,2	3,0		86	-	-	-	-	-	80	77	72,5	67	55	36,5	-	-	-
-	4BHS7 18/30	3,0	4,0		113	-	-	-	-	-	106	102	97,5	91	75,5	52	-	-	-
-	4BHS7 23/40	4,0	5,5		144	-	-	-	-	-	135	131	125	116	96,5	66	-	-	-
4BHS15 7/15M	4BHS15 7/15	1,5	2,0		38,5	-	-	-	-	-	-	-	30,5	29,3	27,7	25,6	21,5	16	9,1
4BHS15 10/22M	4BHS15 10/22	2,2	3,0		55	-	-	-	-	-	-	-	43,5	42	39,5	36,6	30,7	22,9	13
-	4BHS15 13/30	3,0	4,0		71,5	-	-	-	-	-	-	-	59	57,5	54,5	50,5	43,5	34,1	22,1
-	4BHS15 17/40	4,0	5,5		93,5	-	-	-	-	-	-	-	77	75	71	66	57	44,5	28,9
-	4BHS15 25/55	5,5	7,5		138	-	-	-	-	-	-	-	114	110	105	97	83,5	65,5	42,5

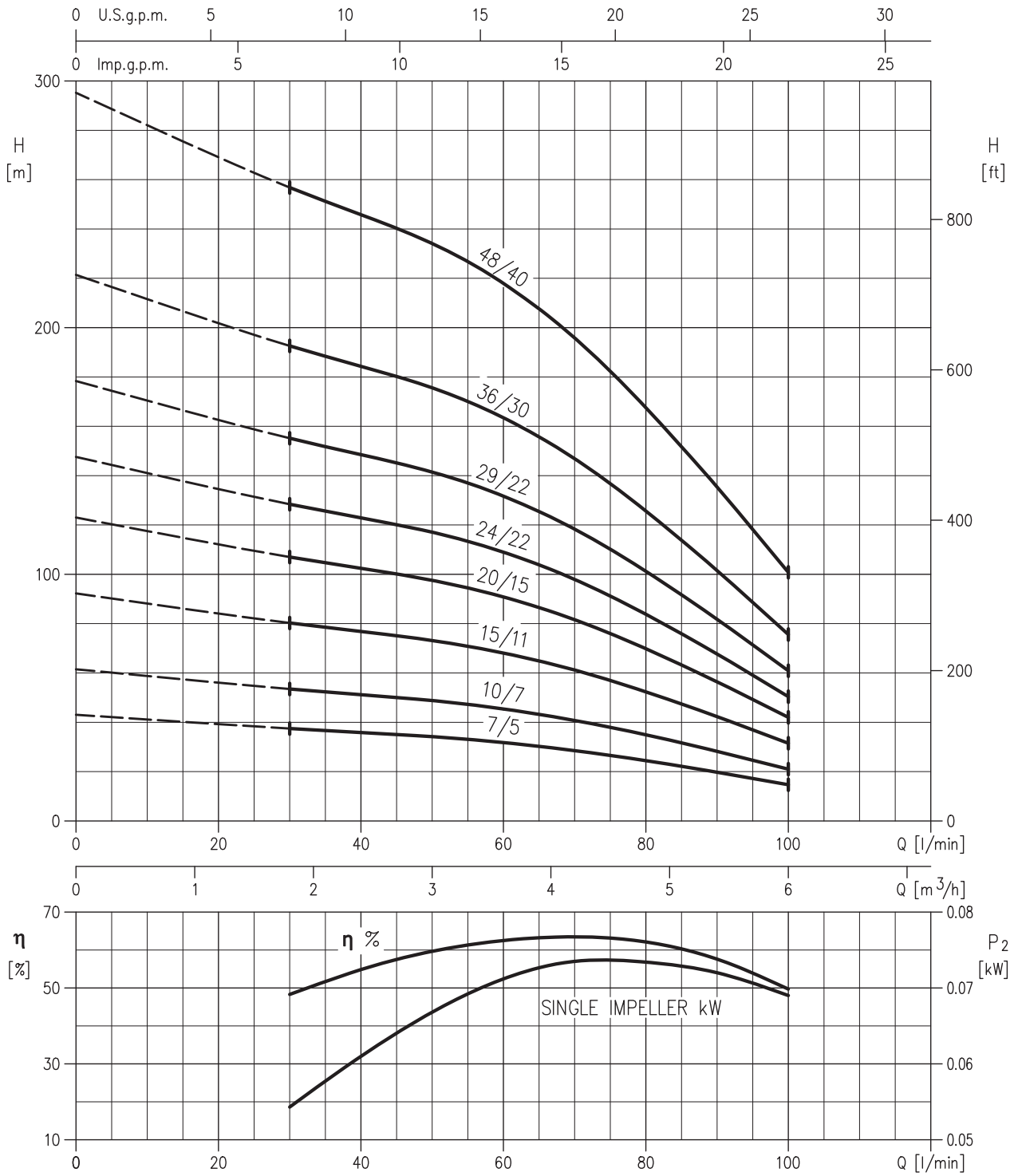
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



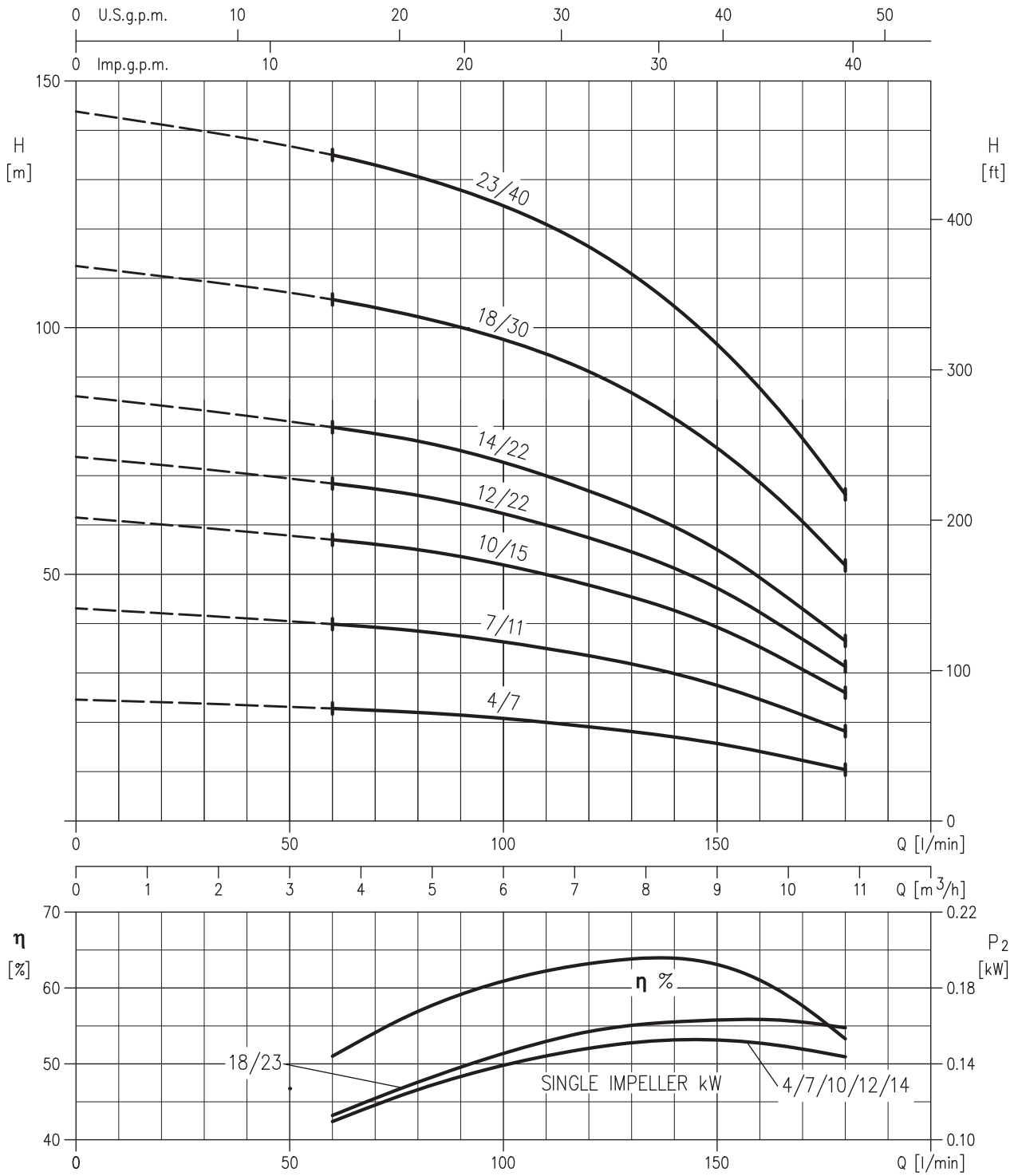
PERFORMANCE CURVES 4BHS 2 series *(according to ISO 9906 Annex A)*



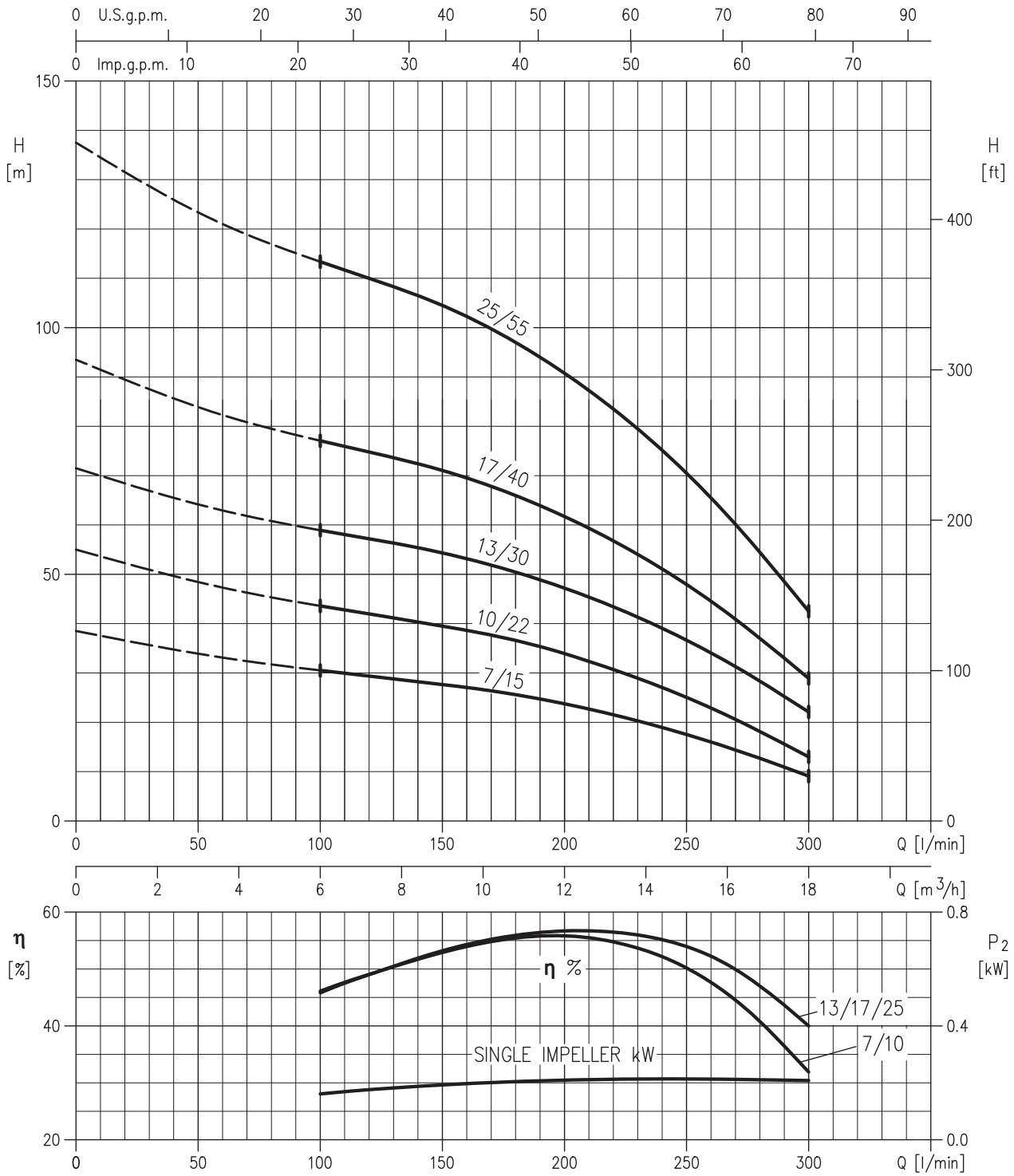
PERFORMANCE CURVES 4BHS 4 series *(according to ISO 9906 Annex A)*



PERFORMANCE CURVES 4BHS 7 series *(according to ISO 9906 Annex A)*



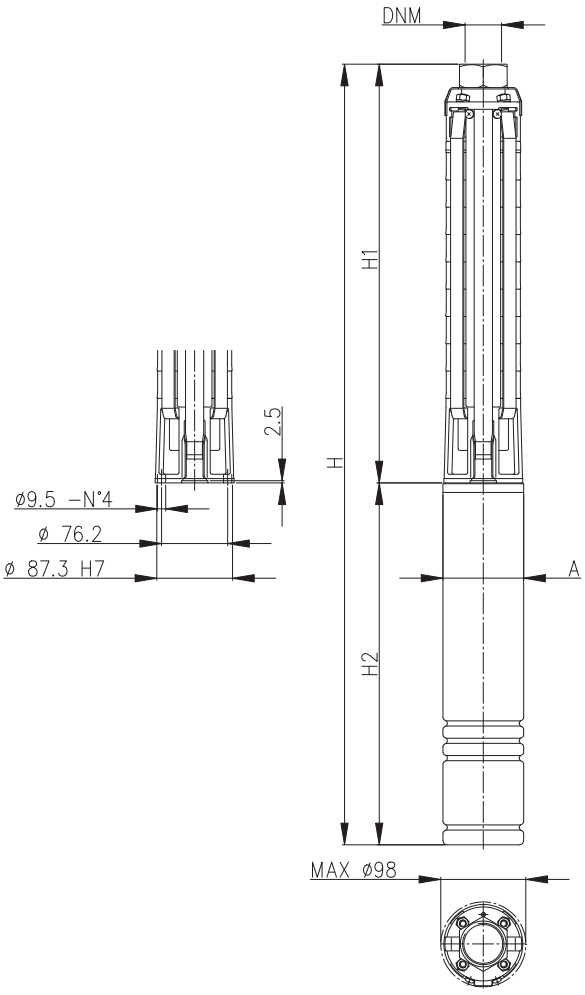
PERFORMANCE CURVES 4BHS 15 series *(according to ISO 9906 Annex A)*



DIMENSIONAL TABLE

Pump type	Power		Pump with oil filled motor						Pump with water filled motor					
			single phase			three phase			Single phase			Three phase		
	kW	HP	A (mm)	H2 (mm)	H (mm)	A (mm)	H2 (mm)	H (mm)	A (mm)	H2 (mm)	H (mm)	A (mm)	H2 (mm)	H (mm)
4BHS2 13/5	0,55	0,75	97	325	814	97	325	814	91	296	785	91	276	765
4BHS2 18/7	0,75	1,0	97	350	944	97	325	919	91	326	920	91	296	890
4BHS2 27/11	1,1	1,5	97	385	1168	97	350	1133	91	360	1143	91	326	1109
4BHS2 36/15	1,5	2,0	97	420	1392	97	385	1357	91	411	1383	91	360	1332
4BHS2 44/22	2,2	3,0	97	520	1660	97	466	1606	91	486	1626	91	411	1551
4BHS2 51/22	2,2	3,0	97	520	1807	97	466	1753	91	486	1773	91	411	1698
4BHS4 7/5	0,55	0,75	97	325	693	97	325	693	91	296	664	91	276	644
4BHS4 10/7	0,75	1,0	97	350	781	97	325	756	91	326	757	91	296	727
4BHS4 15/11	1,1	1,5	97	385	921	97	350	886	91	360	896	91	326	862
4BHS4 20/15	1,5	2,0	97	420	1061	97	385	1026	91	411	1052	91	360	1001
4BHS4 24/22	2,2	3,0	97	520	1245	97	466	1191	91	486	1211	91	411	1136
4BHS4 29/22	2,2	3,0	97	520	1350	97	466	1296	91	486	1316	91	411	1241
4BHS4 36/30	3,0	4,0	97	-	-	97	544	1521	91	-	-	91	516	1493
4BHS4 48/40	4,0	5,5	97	-	-	97	574	1803	91	-	-	91	556	1785
4BHS7 4/7	0,75	1,0	97	350	723	97	325	698	91	326	699	91	296	669
4BHS7 7/11	1,1	1,5	97	385	853	97	350	818	91	360	828	91	326	794
4BHS7 10/15	1,5	2,0	97	420	982	97	385	947	91	411	973	91	360	922
4BHS7 12/22	2,2	3,0	97	520	1145	97	466	1091	91	486	1111	91	411	1036
4BHS7 14/22	2,2	3,0	97	520	1208	97	466	1154	91	486	1174	91	411	1099
4BHS7 18/30	3,0	4,0	97	-	-	97	544	1358	91	-	-	91	516	1330
4BHS7 23/40	3,0	5,5	97	-	-	97	574	1546	91	-	-	91	556	1528
4BHS15 7/15	1,5	2,0	97	420	972	97	385	937	91	411	963	91	360	912
4BHS15 10/22	2,2	3,0	97	520	1198	97	466	1144	91	486	1164	91	411	1089
4BHS15 13/30	3,0	4,0	97	-	-	97	544	1348	91	-	-	91	516	1320
4BHS15 17/40	4,0	5,5	97	-	-	97	574	1546	91	-	-	91	556	1528
4BHS15 25/55	5,5	7,5	97	-	-	97	644	1952	91	-	-	91	676	1984

Pump type	Power		Motor O Weight (Kg)		Motor W Weight (kg)	
	kW	HP	1~	3~	1~	3~
4BHS2 13/5	0,55	0,75	14,2	13,6	15,1	14,4
4BHS2 18/7	0,75	1,0	17	15,9	18,3	16,9
4BHS2 27/11	1,1	1,5	21,3	19,7	22,8	20,5
4BHS2 36/15	1,5	2,0	25,8	24,2	27,5	24,9
4BHS2 44/22	2,2	3,0	32	30,7	32,9	30,3
4BHS2 51/22	2,2	3,0	34,2	32,9	35,1	32,5
4BHS4 7/5	0,55	0,75	12	11,4	12,9	12,2
4BHS4 10/7	0,75	1,0	14,2	13,1	15,5	14,1
4BHS4 15/11	1,1	1,5	17,5	15,9	19	16,7
4BHS4 20/15	1,5	2,0	20,3	18,7	22	19,4
4BHS4 24/22	2,2	3,0	25,4	24,1	26,3	23,7
4BHS4 29/22	2,2	3,0	27	25,7	27,9	25,3
4BHS4 36/30	3,0	4,0	-	33,3	-	31,6
4BHS4 48/40	4,0	5,5	-	37,6	-	38,8
4BHS7 4/7	0,75	1,0	12,9	11,8	14,2	12,8
4BHS7 7/11	1,1	1,5	15,3	13,7	16,8	14,5
4BHS7 10/15	1,5	2,0	18,6	17	20,3	17,7
4BHS7 12/22	2,2	3,0	23,2	21,9	24,1	21,5
4BHS7 14/22	2,2	3,0	23,8	22,5	24,7	22,1
4BHS7 18/30	3,0	4,0	-	28,9	-	27,2
4BHS7 23/40	4,0	5,5	-	31,5	-	32,7
4BHS15 7/15	1,5	2,0	17,8	16,2	19,5	16,9
4BHS15 10/22	2,2	3,0	22,8	21,5	23,7	21,1
4BHS15 13/30	3,0	4,0	-	27,7	-	26
4BHS15 17/40	4,0	5,5	-	30,7	-	31,9
4BHS15 25/55	5,5	7,5	-	36,8	-	40,6



SELECTION OF THE POWER CABLE

Example: Motor 0,75 kW 230 V cable length 70 m - 4x2,5 mm²

Single phase

Motor	Power		Cable type and maximum length (*)						
	kW	HP	4x1	4x1,5	4x2,5	4x4	4x6	4x10	4x16
Single phase	0,55	0,75	38	57	95	152	-	-	-
	0,75	1	30	45	75	120	174	-	-
	1,1	1,5	22	33	53	85	127	210	-
	1,5	2	-	23	38	63	92	154	246
	2,2	3	-	-	28	45	67	112	180
Three phase	0,55	0,75	164	246	-	-	-	-	-
	0,75	1	133	200	333	-	-	-	-
	1,1	1,5	97	146	244	390	-	-	-
	1,5	2	72	109	180	290	435	-	-
	2,2	3	51	78	130	207	310	516	-
	3	4	41	62	104	167	250	416	-
	4	5,5	31	46	77	124	186	310	496
	5,5	7,5	-	33	56	90	135	225	360

* Maximum cable length with a voltage drop of 3%.
At 30°C ambient temperature

IDROGO

5" SUBMERSIBLE CENTRIFUGAL MULTISTAGE PUMPS

5" submersible centrifugal multistage pump made of stainless steel AISI 304 and noryl, suitable for the movement of clean water from wells, tanks for irrigation systems. The double mechanical seal ensures long life and improved reliability.

SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature: 40°C
- Installation: in horizontal and vertical position
- Maximum immersion: 20 m
  (10 m with float switch)

MATERIALS

- External casing, motor casing, casing cover and closing ring in AISI 304
- Impeller, diffuser and spacer in tecnopolymer
- Shaft in AISI 431
- Upper mechanical seal in carbon/ceramic/NBR, lower mechanical seal in SiC/Carbon/NBR

TECHNICAL DATA

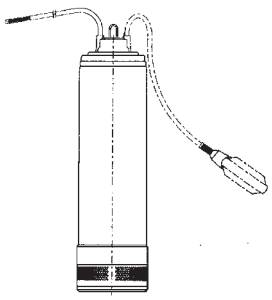
- Asincronous 2 poles motor cooled by the pumped liquid
- Insulation class F
- Protection degree IP68
- 1~230V ±10% 50Hz, 3~400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1"1/4

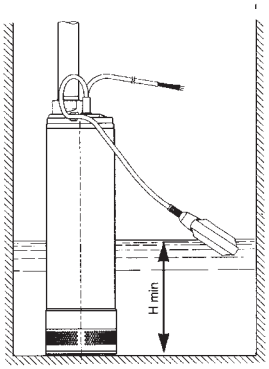
DIMENSIONAL TABLE

Pump type		H (mm)	Weight kg	
Single-phase	Three-phase		1~	3~
IDROGO M 40/06*	-	513	13	-
IDROGO M 40/08	IDROGO 40/08	513	15	15
IDROGO M 40/10	IDROGO 40/10	539	16	16
IDROGO M 40/12	IDROGO 40/12	590	17	17
IDROGO M 40/15	IDROGO 40/15	616	18	18
IDROGO M 80/12	IDROGO 80/12	540	16	16
IDROGO M 80/15	IDROGO 80/15	564	17	17
-	IDROGO 80/20	590	-	18

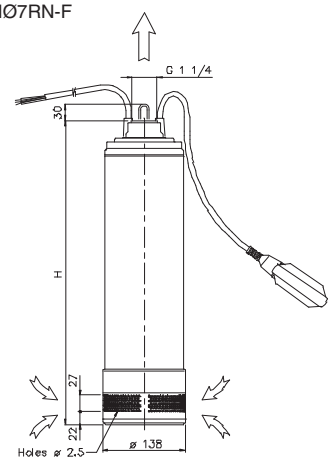
* Supplied with 5 m cable lenght type HØ7RN-F

Single phase version with float switch (upon request)

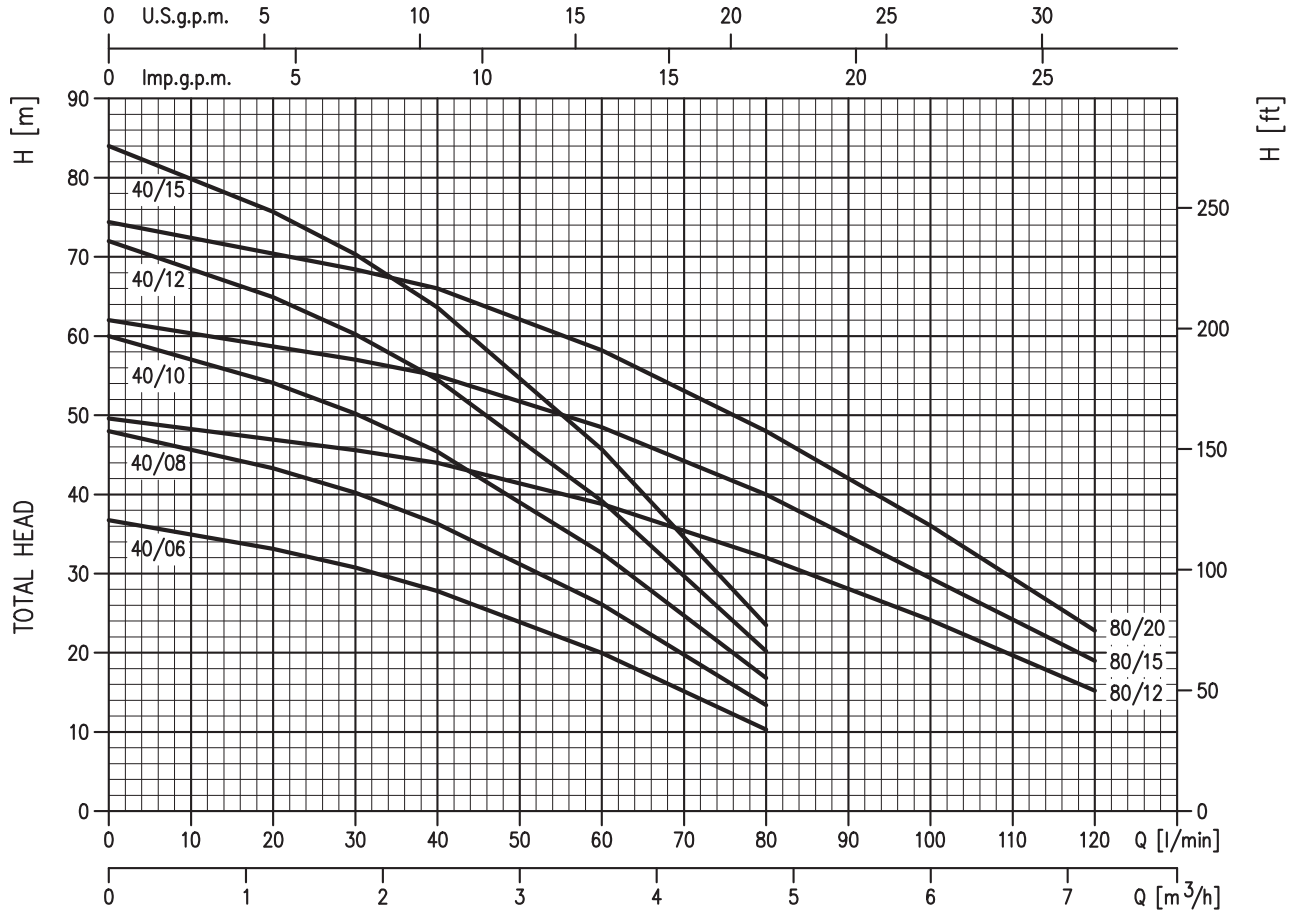




When using the pump in a pit, the recommended minimum size of the pit is 600 mm x 600 mm x 600 mm to allow unrestricted movement of the automatic float switch



PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			Q=Capacity						
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	Vc	1~	3~ 400V	l/min	20	30	40	60	80	100	120
							m³/h	1,2	1,8	2,4	3,6	4,8	6	7,2
								H=Total head						
IDROGO M 40/06	-	0,45	16	450	3,8	-		33,1	30,8	27,8	20	10,3	-	-
IDROGO M 40/08	IDROGO 40/08	0,6	16	450	4,3	1,9		43,3	40,2	36,3	26,1	13,4	-	-
IDROGO M 40/10	IDROGO 40/10	0,75	20	450	5,7	2,2		54,1	50,2	45,4	32,6	16,8	-	-
IDROGO M 40/12	IDROGO 40/12	0,9	20	450	6,8	2,4		64,9	60,2	54,5	39,2	20,2	-	-
IDROGO M 40/15	IDROGO 40/15	1,1	31,5	450	7,3	3,0		75,7	70,3	63,6	45,7	23,5	-	-
IDROGO M 80/12	IDROGO 80/12	0,9	20	450	6,4	2,3		-	45,6	44	38,8	32	23,2	15,2
IDROGO M 80/15	IDROGO 80/15	1,1	31,5	450	7,5	3,1		-	57	55	48,5	40	28	19
-	IDROGO 80/20	1,5	-	-	-	3,5		-	68,4	66	58,2	48	34,8	22,8

6" borehole pumps for water supply of domestic, agricultural and industrial use, pressure boosting units and irrigation systems.

SPECIFICATIONS

- Maximum liquid temperature: 30°C
- Maximum sand content: 50 ppm

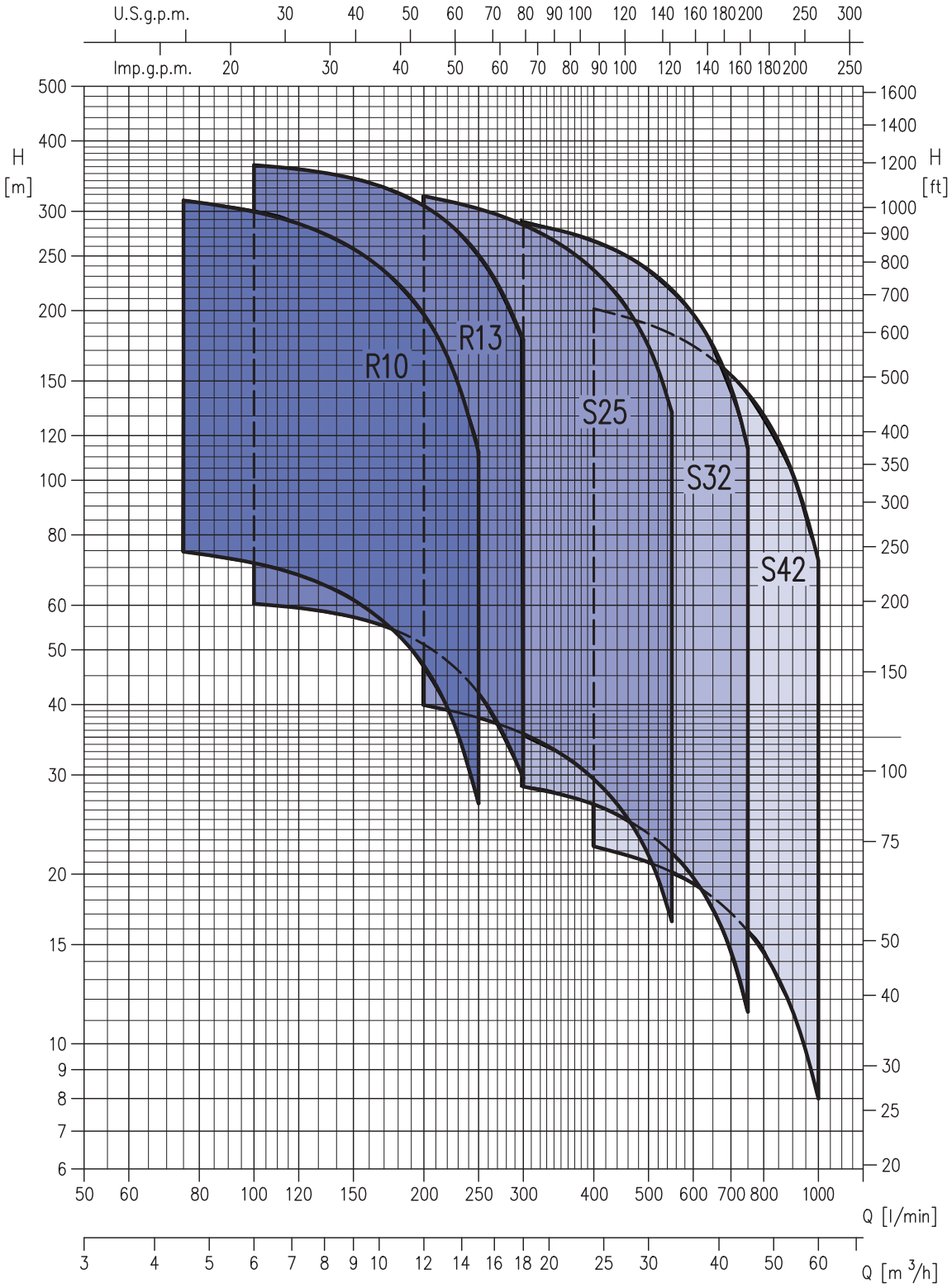
MATERIALS

- Discharge and suction made of spheroidal nickeled cast iron.
- Pump casing, spacer rings for stage, wearing rings check valve, cable guard and suction filter in AISI 304.
- Impellers and diffusers in technopolymer.
- Shaft in AISI 420

TECHNICAL DATA

- 2 poles motor
- Insulation class F (4" - 6" OY version)
  (6" WY version)
  B (4" WY version)
- Protection degree IP 58 (4" - 6" OY version)
  (6" WY version)
  IP 68 (4" WY version)
- 3~ 400 (±10%) 50 Hz (OY)
  3~ 400 (+6% -10%) 50 Hz (WY)
- Discharge: 2½" (SF6R10/13)
  3" (SF6S25/32/42)

PERFORMANCE CHART

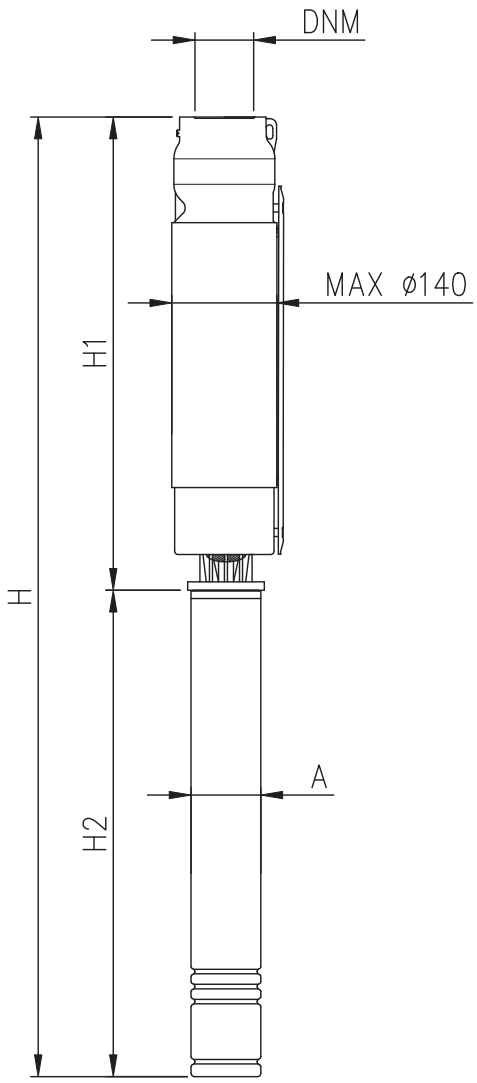


PERFORMANCE TABLE

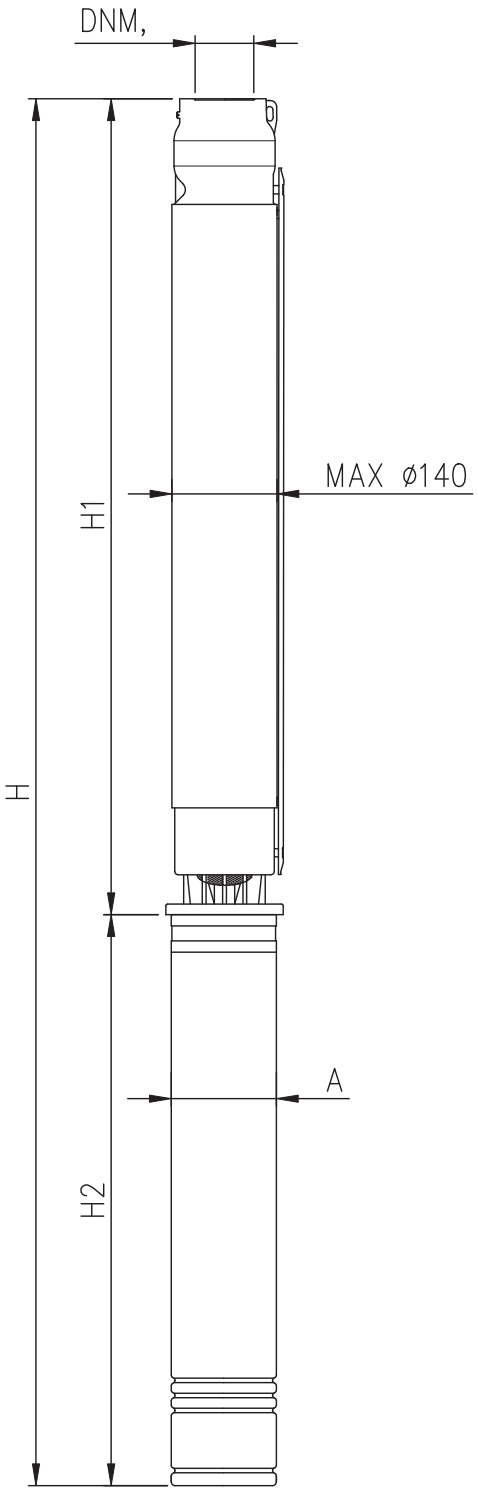
Pump type	kW	HP	Q=Capacity															
			l/min 0	75	100	150	200	250	300	400	500	550	600	700	750	800	900	1000
			m³/h 0	4,5	6	9	12	15	18	24	30	33	36	42	45	48	54	60
			H=Total head															
R10 5	2,2	3	81,5	74,5	71,5	61,5	47	26,5	-	-	-	-	-	-	-	-	-	-
R10 6	3	4	97,5	89,5	85,5	73,5	56,5	32	-	-	-	-	-	-	-	-	-	-
R10 7	3	4	114	105	100	86	65,5	37,5	-	-	-	-	-	-	-	-	-	-
R10 8	4	5,5	130	119	114	98	75	42,5	-	-	-	-	-	-	-	-	-	-
R10 9	4	5,5	147	134	128	110	84,5	48	-	-	-	-	-	-	-	-	-	-
R10 12	5,5	7,5	196	179	171	147	113	64	-	-	-	-	-	-	-	-	-	-
R10 15	7,5	10	244	224	214	184	141	80	-	-	-	-	-	-	-	-	-	-
R10 18	9,2	12,5	293	269	257	221	169	96	-	-	-	-	-	-	-	-	-	-
R10 21	9,2	12,5	342	314	300	258	197	112	-	-	-	-	-	-	-	-	-	-
R13 4	2,2	3	62,5	-	60,5	57	51	42	29,5	-	-	-	-	-	-	-	-	-
R13 5	3	4	78	-	75,5	71,5	64	52,5	37	-	-	-	-	-	-	-	-	-
R13 6	4	5,5	93,5	-	90,5	85,5	76,5	63	44,5	-	-	-	-	-	-	-	-	-
R13 7	5,5	7,5	109	-	106	100	89,5	73,5	52	-	-	-	-	-	-	-	-	-
R13 8	5,5	7,5	125	-	121	114	102	84	59	-	-	-	-	-	-	-	-	-
R13 9	5,5	7,5	140	-	136	129	115	94	66,5	-	-	-	-	-	-	-	-	-
R13 12	7,5	10	187	-	181	172	153	126	89	-	-	-	-	-	-	-	-	-
R13 15	9,2	12,5	234	-	227	214	192	157	111	-	-	-	-	-	-	-	-	-
R13 18	11	15	281	-	272	257	230	189	133	-	-	-	-	-	-	-	-	-
R13 21	15	20	328	-	317	300	268	220	155	-	-	-	-	-	-	-	-	-
R13 24	15	20	374	-	362	343	307	251	178	-	-	-	-	-	-	-	-	-
S25 3	3	4	46	-	-	-	40	38	35,5	29,5	21,5	16,5	-	-	-	-	-	-
S25 4	4	5,5	61	-	-	-	53	50,5	47,5	39,5	29	22	-	-	-	-	-	-
S25 6	5,5	7,5	91,5	-	-	-	80	76	71	59	43	33	-	-	-	-	-	-
S25 8	7,5	10	122	-	-	-	106	101	94,5	78,5	57,5	44	-	-	-	-	-	-
S25 10	9,2	12,5	153	-	-	-	133	126	118	98,5	72	55	-	-	-	-	-	-
S25 12	11	15	183	-	-	-	160	152	142	118	86,5	66	-	-	-	-	-	-
S25 14	15	20	214	-	-	-	186	177	166	138	101	77	-	-	-	-	-	-
S25 16	15	20	244	-	-	-	213	202	189	157	115	88	-	-	-	-	-	-
S25 20	18,5	25	305	-	-	-	266	253	237	197	144	110	-	-	-	-	-	-
S25 24	22	30	366	-	-	-	319	303	284	236	173	132	-	-	-	-	-	-
S32 2	3	4	31,5	-	-	-	-	-	28,5	26,5	23,5	22	19,7	14,6	11,4	-	-	-
S32 3	4	5,5	47	-	-	-	-	-	43	40	35,5	32,5	29,5	22	17,1	-	-	-
S32 4	5,5	7,5	63	-	-	-	-	-	57	53	47	43,5	39,5	29	23	-	-	-
S32 5	7,5	10	78,5	-	-	-	-	-	71,5	66,5	59	54,5	49,5	36,5	28,5	-	-	-
S32 6	9,2	12,5	94	-	-	-	-	-	86	80	71	65,5	59	44	34	-	-	-
S32 8	11	15	126	-	-	-	-	-	114	106	94,5	87	79	58,5	45,5	-	-	-
S32 9	15	20	141	-	-	-	-	-	129	120	106	98	88,5	65,7	51,5	-	-	-
S32 10	15	20	157	-	-	-	-	-	143	133	118	109	98,5	73	57	-	-	-
S32 12	18,5	25	188	-	-	-	-	-	172	160	142	131	118	87,5	68,5	-	-	-
S32 15	22	30	236	-	-	-	-	-	215	200	177	164	148	110	85,5	-	-	-
S32 18	30	40	283	-	-	-	-	-	257	239	212	196	178	131	103	-	-	-
S32 20	30	40	314	-	-	-	-	-	286	266	236	218	197	146	114	-	-	-
S42 2	4	5,5	26	-	-	-	-	-	-	22,5	21	20	19,2	17,1	16	14,5	11,4	8
S42 3	5,5	7,5	39,5	-	-	-	-	-	-	33,5	31,5	30	29	25,5	24	22	17,2	12
S42 4	7,5	10	52,5	-	-	-	-	-	-	45	42	40	38,5	34	31,5	29	23	16
S42 5	9,2	12,5	65,5	-	-	-	-	-	-	56	52,5	50	48	42,5	39,5	36,5	28,5	20
S42 6	11	15	78,5	-	-	-	-	-	-	67	63	60	57,5	51	47,5	43,5	34,5	24
S42 8	15	20	105	-	-	-	-	-	-	89,5	84	80	77	68	63,5	58	46	32
S42 9	15	20	118	-	-	-	-	-	-	101	94,5	90,5	86,5	77	71,5	65,5	51,5	36
S42 10	18,5	25	131	-	-	-	-	-	-	112	105	101	96	85,5	79	72,5	57	40
S42 12	22	30	157	-	-	-	-	-	-	134	126	121	115	102	95	87	68,5	48
S42 15	30	40	197	-	-	-	-	-	-	168	158	152	144	128	119	109	86	60
S42 18	30	40	236	-	-	-	-	-	-	202	189	181	173	154	143	131	103	72

DIMENSIONS SF6

PUMP WITH 4" MOTOR VERSION



PUMP WITH 6"MOTOR VERSION



DIMENSIONAL TABLE

Pump type	Power		Pump without motor		Motor size	Pump with water motor filled			Pump with oil motor filled		
	kW	HP	DNM	H1 (mm)		A (mm)	H2 (mm)	H (mm)	A (mm)	H2 (mm)	H (mm)
R10 5/2.2	2,2	3	G 2½	478	4	95,3	353,5	831,5	93	417,5	895,5
R10 6/3.0	3	4	G 2½	516	4	95,3	420,5	936,5	93	577,5	1093,5
R10 7/3.0	3	4	G 2½	554	4	95,3	420,5	974,5	93	577,5	1131,5
R10 8/4.0	4	5,5	G 2½	592	4	95,3	580,5	1172,5	93	577,5	1169,5
R10 9/4.0	4	5,5	G 2½	630	4	95,3	580,5	1210,5	93	577,5	1207,5
R10 12/5.5	5,5	7,5	G 2½	744	4	95,3	695,5	1439,5	93	647,5	1391,5
R10 15/7.5	7,5	10	G 2½	858	6	136,7	647	1505	140	600	1458
R10 18/9.2	9,2	12,5	G 2½	972	6	136,7	679	1651	140	600	1572
R10 21/9.2	9,2	12,5	G 2½	1086	6	136,7	679	1765	140	600	1686
R13 4/2.2	2,2	3	G 2½	440	4	95,3	353,5	793,5	93	417,5	857,5
R13 5/3.0	3	4	G 2½	478	4	95,3	420,5	898,5	93	577,5	1055,5
R13 6/4.0	4	5,5	G 2½	516	4	95,3	580,5	1096,5	93	577,5	1093,5
R13 7/5.5	5,5	7,5	G 2½	554	4	95,3	695,5	1249,5	93	647,5	1201,5
R13 8/5.5	5,5	7,5	G 2½	592	4	95,3	695,5	1287,5	93	647,5	1239,5
R13 9/5.5	5,5	7,5	G 2½	630	4	95,3	695,5	1325,5	93	647,5	1277,5
R13 12/7.5	7,5	10	G 2½	744	6	136,7	647	1391	140	600	1344
R13 15/9.2	9,2	12,5	G 2½	858	6	136,7	679	1537	140	600	1458
R13 18/11	11	15	G 2½	972	6	136,7	712	1684	140	700	1672
R13 21/13	15	20	G 2½	1086	6	136,7	777	1863	140	760	1846
R13 24/15	15	20	G 2½	1200	6	136,7	777	1977	140	760	1960
S25 3/3.0	3	4	G 3	459	4	95,3	420,5	879,5	93	577,5	1036,5
S25 4/4.0	4	5,5	G 3	516	4	95,3	580,5	1096,5	93	577,5	1093,5
S25 6/5.5	5,5	7,5	G 3	630	4	95,3	695,5	1325,5	93	647,5	1277,5
S25 8/7.5	7,5	10	G 3	744	6	136,7	647	1391	140	600	1344
S25 10/9.2	9,2	12,5	G 3	858	6	136,7	679	1537	140	600	1458
S25 12/11	11	15	G 3	972	6	136,7	712	1684	140	700	1672
S25 14/15	15	20	G 3	1086	6	136,7	777	1863	140	760	1846
S25 16/15	15	20	G 3	1200	6	136,7	777	1977	140	760	1960
S25 20/18.5	18,5	25	G 3	1480	6	136,7	842	2322	140	830	2310
S25 54/22	22	30	G 3	1708	6	136,7	907	2615	140	890	2598
S32 2/3.0	3	4	G 3	408	4	95,3	420,5	828,5	93	577,5	985,5
S32 3/4.0	4	5,5	G 3	468	4	95,3	580,5	1048,5	93	577,5	1045,5
S32 4/5.5	5,5	7,5	G 3	528	4	95,3	695,5	1223,5	93	647,5	1175,5
S32 5/7.5	7,5	10	G 3	588	6	136,7	647	1235	140	600	1188
S32 6/9.2	9,2	12,5	G 3	648	6	136,7	679	1327	140	600	1248
S32 8/11	11	15	G 3	768	6	136,7	712	1480	140	700	1468
S32 9/15	15	20	G 3	828	6	136,7	777	1605	140	760	1588
S32 10/15	15	20	G 3	888	6	136,7	777	1665	140	760	1648
S32 12/18.5	18,5	25	G 3	1008	6	136,7	842	1850	140	830	1838
S32 15/22	22	30	G 3	1188	6	136,7	907	2095	140	890	2078
S32 18/26	30	40	G 3	1420	6	136,7	1037	2457	140	1037	2457
S32 20/30	30	40	G 3	1540	6	136,7	1037	2577	140	1037	2577
S42 2/4.0	4	5,5	G 3	408	4	95,3	580,5	988,5	93	577,5	985,5
S42 3/5.5	5,5	7,5	G 3	468	4	95,3	695,5	1163,5	93	647,5	1115,5
S42 4/7.5	7,5	10	G 3	528	6	136,7	647	1175	140	600	1128
S42 5/9.2	9,2	12,5	G 3	588	6	136,7	679	1267	140	600	1188
S42 6/11	11	15	G 3	648	6	136,7	712	1360	140	700	1348
S42 8/13	15	20	G 3	768	6	136,7	777	1545	140	760	1528
S42 9/15	15	20	G 3	828	6	136,7	777	1605	140	760	1588
S42 10/18.5	18,5	25	G 3	888	6	136,7	842	1730	140	830	1718
S42 12/22	22	30	G 3	1008	6	136,7	907	1915	140	890	1898
S42 15/26	30	40	G 3	1188	6	136,7	1037	2225	140	1030	2218
S42 1/30	30	40	G 3	1420	6	136,7	1037	2457	140	1030	2450

6BHE

6" BOREHOLE CENTRIFUGAL PUMPS

Stainless steel borehole pumps for 6" deep wells suitable for water geeding from deep wells, sprinkling and flow irrigation systems, water treatment plants filtration, industrial cooling and processing, fontains and fire-fighting systems.

SPECIFICATIONS

- Maximum allowable amount of sand 50 ppm
- Maximum liquid temperature: 50°C

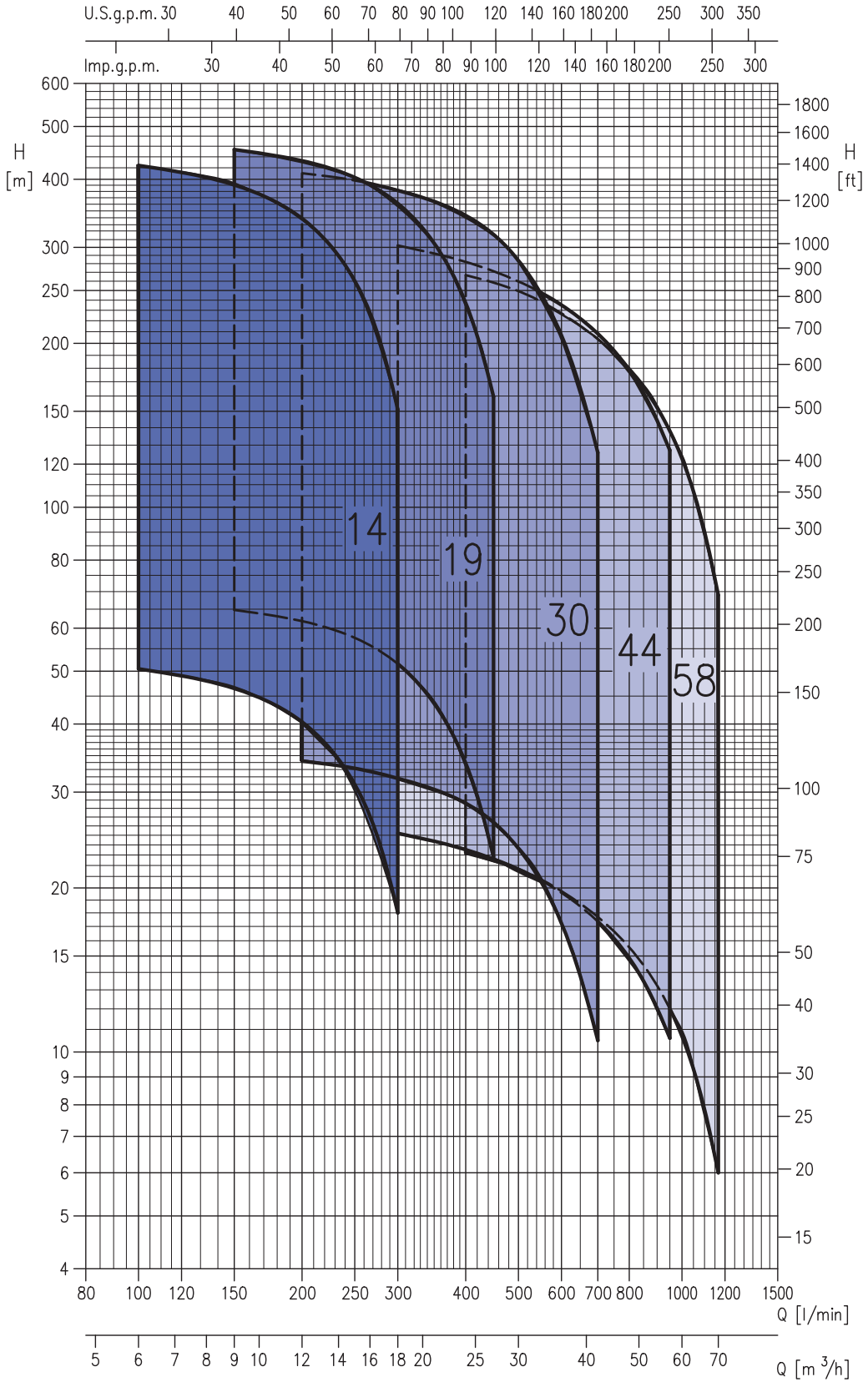
MATERIALS

- Completely in AISI 304 and AISI 316
- Liner ring in PTFE

TECHNICAL DATA

- AISI 316 version available on request
- BHE 14 and 19 types with Rp 2" and 3" discharge head
- Rp 4" discharge head
- 4" motor adapted

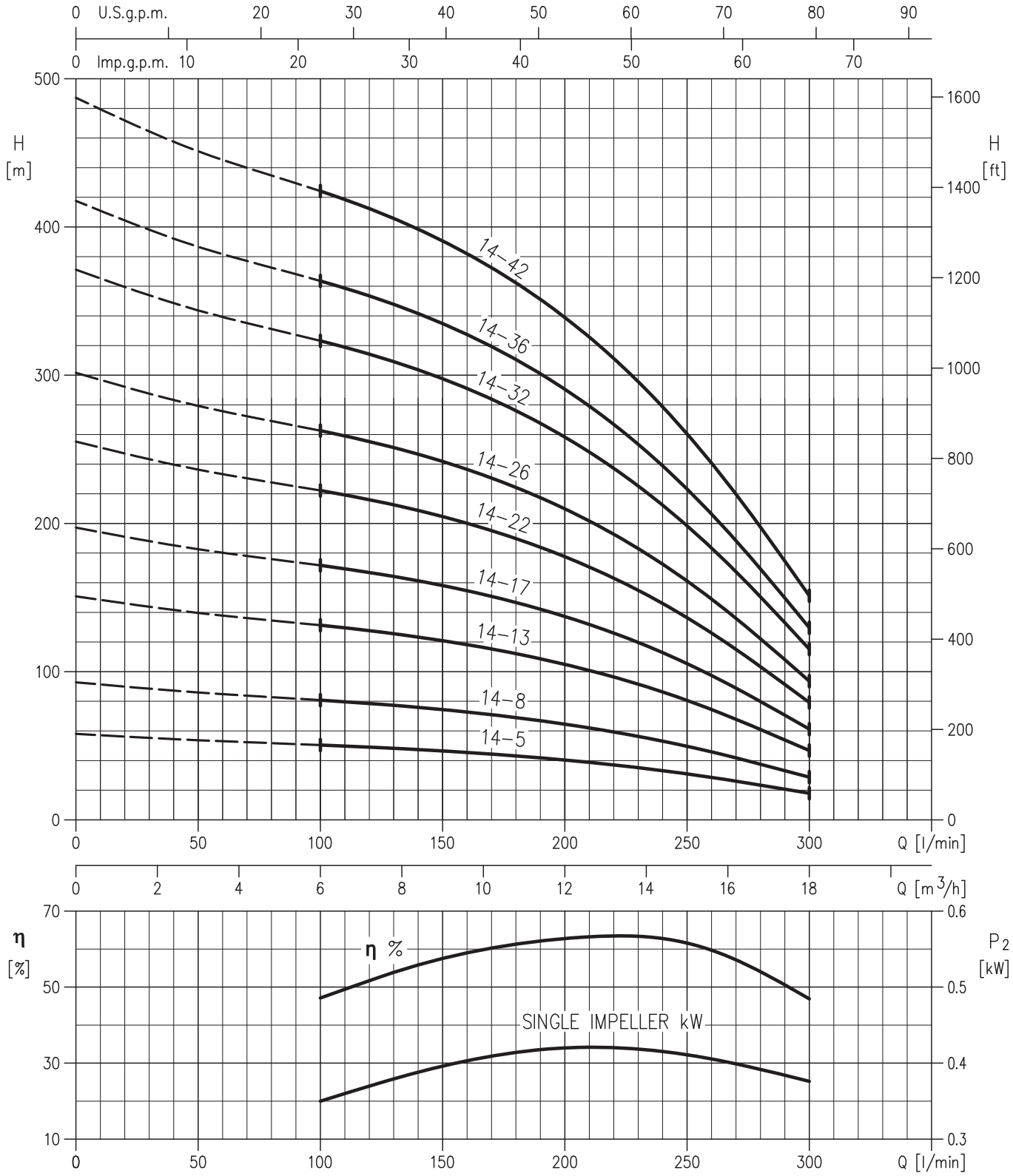
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



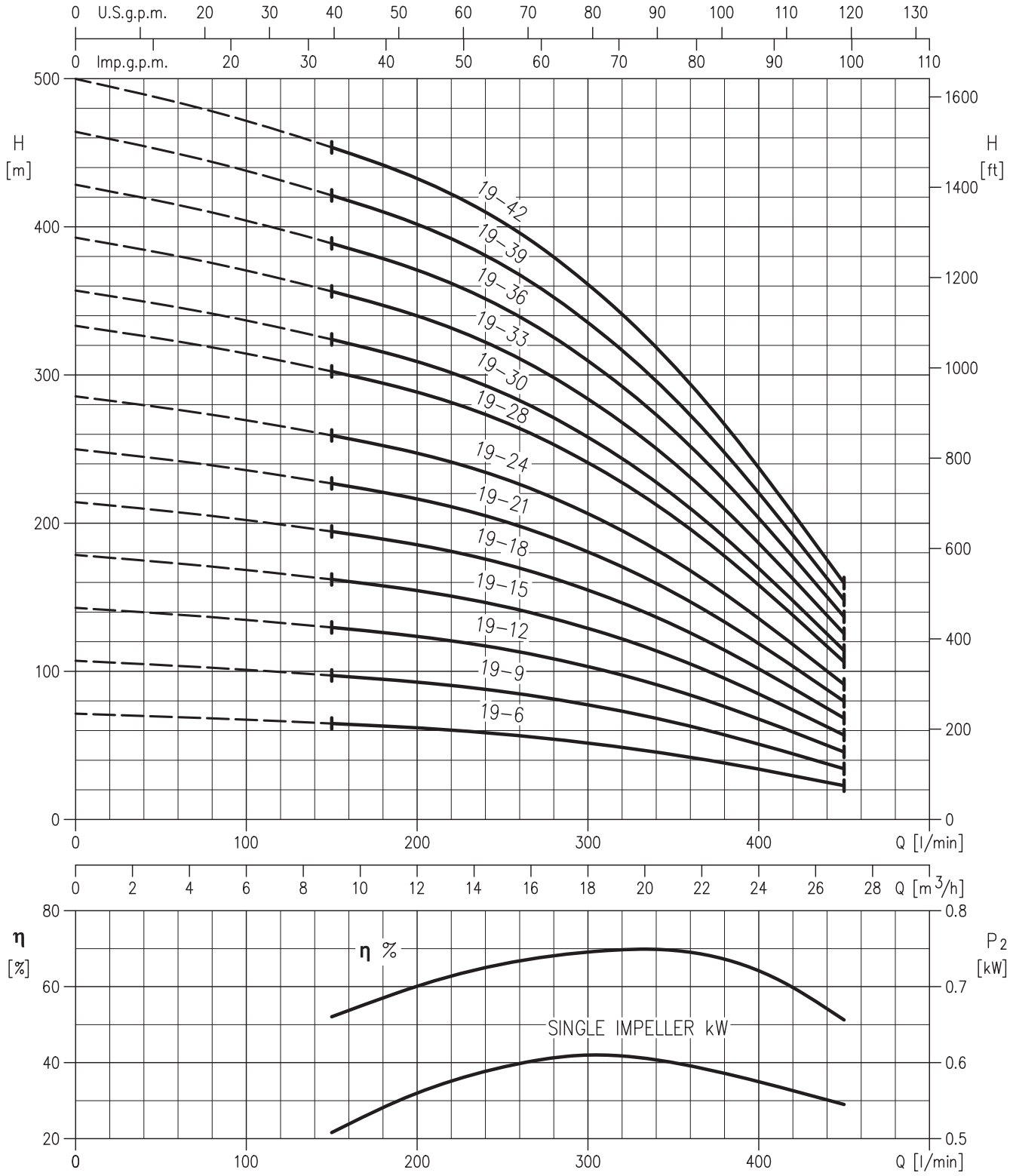
PERFORMANCE TABLE

Pump type	Motor			Q=Capacity														
		Power		l/min	0	100	150	200	250	300	400	450	525	600	700	825	950	1050	1167
	size	kW	HP	m^3/h	0	6	9	12	15	18	24	27	31,5	36	42	49,5	57	63	70
				H=Total head															
64 BHE 14 - 5	4"	2,2	3		58	50,5	46,5	40,5	31	18	-	-	-	-	-	-	-	-	-
64 BHE 14 - 8	4"	4	5,5		93	81	74,5	64,5	49,5	28,8	-	-	-	-	-	-	-	-	-
6 BHE 14 - 8	6"	4	5,5		93	81	74,5	64,5	49,5	28,8	-	-	-	-	-	-	-	-	-
64 BHE 14 - 13	4"	5,5	7,5		151	131	121	105	80,5	47	-	-	-	-	-	-	-	-	-
6 BHE 14 - 13	6"	5,5	7,5		151	131	121	105	80,5	47	-	-	-	-	-	-	-	-	-
6 BHE 14 - 17	6"	7,5	10		197	172	158	137	105	61	-	-	-	-	-	-	-	-	-
6 BHE 14 - 22	6"	9,2	12,5		255	222	205	178	136	79	-	-	-	-	-	-	-	-	-
6 BHE 14 - 26	6"	11	15		302	263	242	210	161	93,5	-	-	-	-	-	-	-	-	-
6 BHE 14 - 32	6"	15	20		371	323	298	258	198	115	-	-	-	-	-	-	-	-	-
6 BHE 14 - 36	6"	15	20		418	364	335	291	223	130	-	-	-	-	-	-	-	-	-
6 BHE 14 - 42	6"	18,5	25		487	424	391	339	260	151	-	-	-	-	-	-	-	-	-
64 BHE 19 - 6	4"	4	5,5		71,5	-	65	62	57,5	51,5	33,9	22,8	-	-	-	-	-	-	-
6 BHE 19 - 6	6"	4	5,5		71,5	-	65	62	57,5	51,5	33,9	22,8	-	-	-	-	-	-	-
64 BHE 19 - 9	4"	5,5	7,5		107	-	97	92,5	86,5	77,5	51	34,2	-	-	-	-	-	-	-
6 BHE 19 - 9	6"	5,5	7,5		107	-	97	92,5	86,5	77,5	51	34,2	-	-	-	-	-	-	-
6 BHE 19 - 12	6"	7,5	10		143	-	130	124	115	103	68	45,5	-	-	-	-	-	-	-
6 BHE 19 - 15	6"	9,2	12,5		179	-	162	155	144	129	85	57	-	-	-	-	-	-	-
6 BHE 19 - 18	6"	11	15		214	-	194	185	173	155	102	68,5	-	-	-	-	-	-	-
6 BHE 19 - 21	6"	15	20		250	-	227	216	202	181	119	80	-	-	-	-	-	-	-
6 BHE 19 - 24	6"	15	20		286	-	259	247	230	206	136	91	-	-	-	-	-	-	-
6 BHE 19 - 28	6"	18,5	25		333	-	302	288	269	241	158	106	-	-	-	-	-	-	-
6 BHE 19 - 30	6"	18,5	25		357	-	324	309	288	258	170	114	-	-	-	-	-	-	-
6 BHE 19 - 33	6"	22	30		393	-	356	340	317	284	186	125	-	-	-	-	-	-	-
6 BHE 19 - 36	6"	22	30		428	-	389	371	346	310	203	137	-	-	-	-	-	-	-
6 BHE 19 - 39	6"	30	40		464	-	421	402	374	335	220	148	-	-	-	-	-	-	-
6 BHE 19 - 42	6"	30	40		500	-	454	433	403	361	237	160	-	-	-	-	-	-	-
64 BHE 30 - 3	4"	3	4		37,8	-	-	34,2	33,2	31,8	28,6	26,4	22,1	17,3	10,5	-	-	-	-
64 BHE 30 - 4	4"	4	5,5		50,5	-	-	45,5	44	42,5	38,2	35,2	29,5	23	14	-	-	-	-
6 BHE 30 - 4	6"	4	5,5		50,5	-	-	45,5	44	42,5	38,2	35,2	29,5	23	14	-	-	-	-
64 BHE 30 - 5	4"	5,5	7,5		63	-	-	57	55,5	53	47,5	44	36,9	28,8	17,5	-	-	-	-
6 BHE 30 - 5	6"	5,5	7,5		63	-	-	57	55,5	53	47,5	44	36,9	28,8	17,5	-	-	-	-
6 BHE 30 - 7	6"	7,5	10		88	-	-	80	77,5	74	67	61,5	51,5	40,5	24,5	-	-	-	-
6 BHE 30 - 11	6"	11	15		139	-	-	125	122	117	105	97	81	63,5	38,5	-	-	-	-
6 BHE 30 - 15	6"	15	20		189	-	-	171	166	159	143	132	111	86,5	52,5	-	-	-	-
6 BHE 30 - 19	6"	18,5	25		239	-	-	217	210	201	181	167	140	109	66,5	-	-	-	-
6 BHE 30 - 23	6"	22	30		290	-	-	262	254	244	219	202	170	132	80,5	-	-	-	-
6 BHE 30 - 27	6"	30	40		340	-	-	308	299	286	258	238	199	155	94,5	-	-	-	-
6 BHE 30 - 31	6"	30	40		391	-	-	353	343	329	296	273	229	178	109	-	-	-	-
6 BHE 30 - 33	6"	37	50		416	-	-	376	365	350	315	290	244	190	116	-	-	-	-
6 BHE 30 - 36	6"	37	50		454	-	-	410	398	382	343	317	266	207	126	-	-	-	-
64 BHE 44 - 2	4"	3	4		29	-	-	-	-	25,2	23,5	22,6	21,2	19,6	17,4	14,2	10,6	-	-
64 BHE 44 - 3	4"	5,5	7,5		43,5	-	-	-	-	37,8	35,3	33,9	31,7	29,4	26	21,3	15,9	-	-
6 BHE 44 - 3	6"	5,5	7,5		43,5	-	-	-	-	37,8	35,3	33,9	31,7	29,4	26	21,3	15,9	-	-
6 BHE 44 - 5	6"	7,5	10		72,5	-	-	-	-	63	59	56,5	53	49	43,5	35,5	26,5	-	-
6 BHE 44 - 7	6"	11	15		102	-	-	-	-	88	82,5	79	74	68,5	61	49,5	37,1	-	-
6 BHE 44 - 9	6"	15	20		131	-	-	-	-	113	106	102	95	88	78	64	47,5	-	-
6 BHE 44 - 10	6"	15	20		145	-	-	-	-	126	118	113	106	98	87	71	53	-	-
6 BHE 44 - 12	6"	18,5	25		174	-	-	-	-	151	141	136	127	118	104	85	63,5	-	-
6 BHE 44 - 15	6"	22	30		218	-	-	-	-	189	176	170	159	147	130	107	79,5	-	-
6 BHE 44 - 18	6"	30	40		261	-	-	-	-	227	212	203	190	176	156	128	95,5	-	-
6 BHE 44 - 20	6"	30	40		290	-	-	-	-	252	235	226	212	196	174	142	106	-	-
6 BHE 44 - 22	6"	37	50		319	-	-	-	-	277	259	249	233	216	191	156	117	-	-
6 BHE 44 - 24	6"	37	50		348	-	-	-	-	302	282	271	254	235	208	170	127	-	-
64 BHE 58 - 2	4"	3	4		27,2	-	-	-	-	-	23,2	22,5	21,2	19,7	17,7	15	12	9,3	6
64 BHE 58 - 3	4"	5,5	7,5		41	-	-	-	-	-	34,8	33,7	31,9	29,6	26,6	22,5	18	14	9
6 BHE 58 - 3	6"	5,5	7,5		41	-	-	-	-	-	34,8	33,7	31,9	29,6	26,6	22,5	18	14	9
6 BHE 58 - 5	6"	7,5	10		68	-	-	-	-	-	58	56	53	49,5	44,5	37,5	30	23,3	15
6 BHE 58 - 7	6"	11	15		95	-	-	-	-	-	81	78,5	74,5	69	62	52,5	42	32,6	21
6 BHE 58 - 9	6"	15	20		122	-	-	-	-	-	104	101	95,5	89	79,5	67,5	54	42	27
6 BHE 58 - 10	6"	15	20		136	-	-	-	-	-	116	112	106	98,5	88,5	75	60	46,5	30
6 BHE 58 - 12	6"	18,5	25		163	-	-	-	-	-	139	135	127	118	106	90	72	56	36
6 BHE 58 - 14	6"	22	30		190	-	-	-	-	-	162	157	149	138	124	105	84	65	42
6 BHE 58 - 16	6"	30	40		218	-	-	-	-	-	186	180	170	158	142	120	96	74,5	48
6 BHE 58 - 18	6"	30	40		245	-	-	-	-	-	209	202	191	178	159	135	108	83,5	54
6 BHE 58 - 20	6"	37	50		272	-	-	-	-	-	323	225	212	197	177	150	120	93	60
6 BHE 58 - 23	6"	37	50		313	-	-	-	-	-	267	259	244	227	204	173	138	107	69

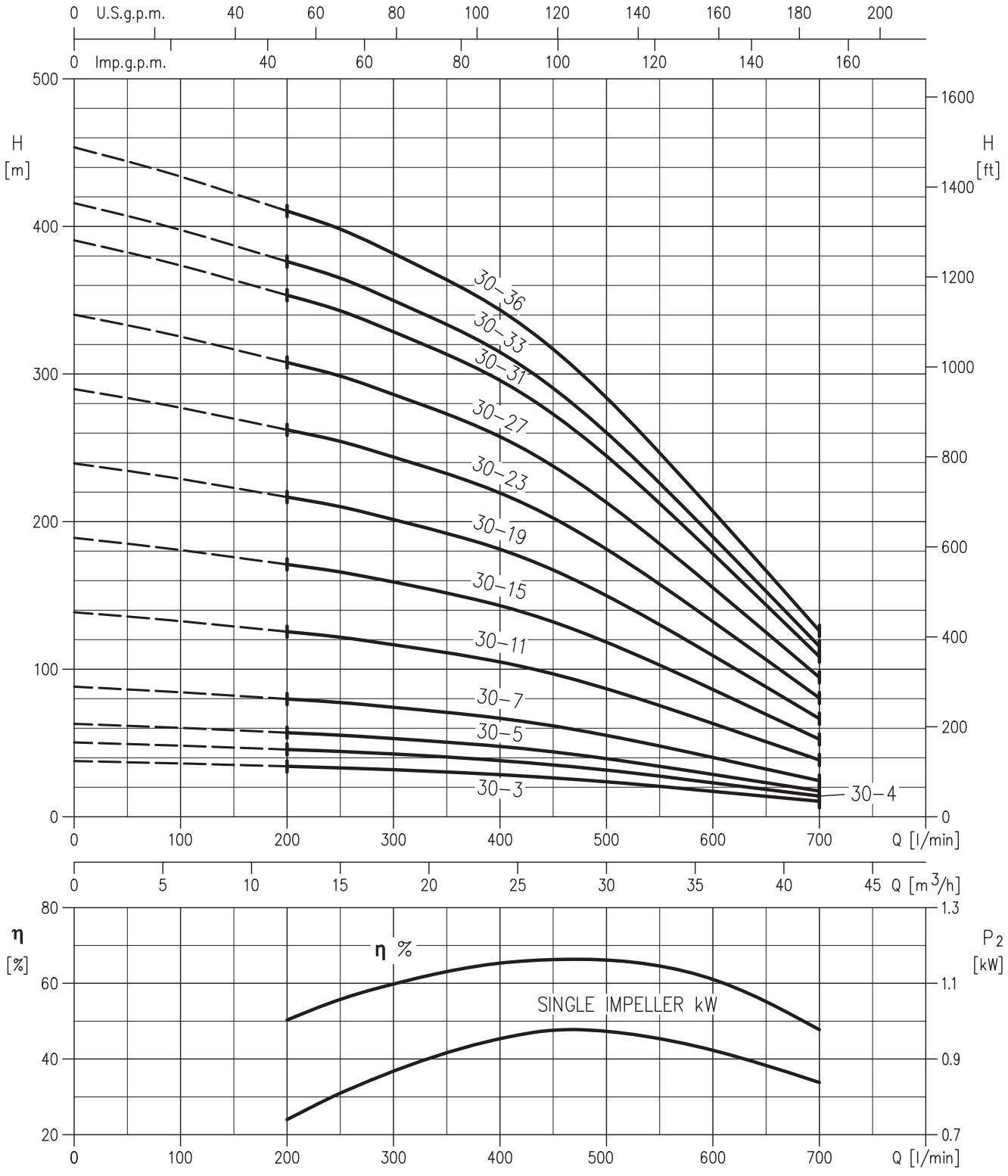
PERFORMANCE CURVES 6(4)BHE 14 *(according to ISO 9906 Annex A)*



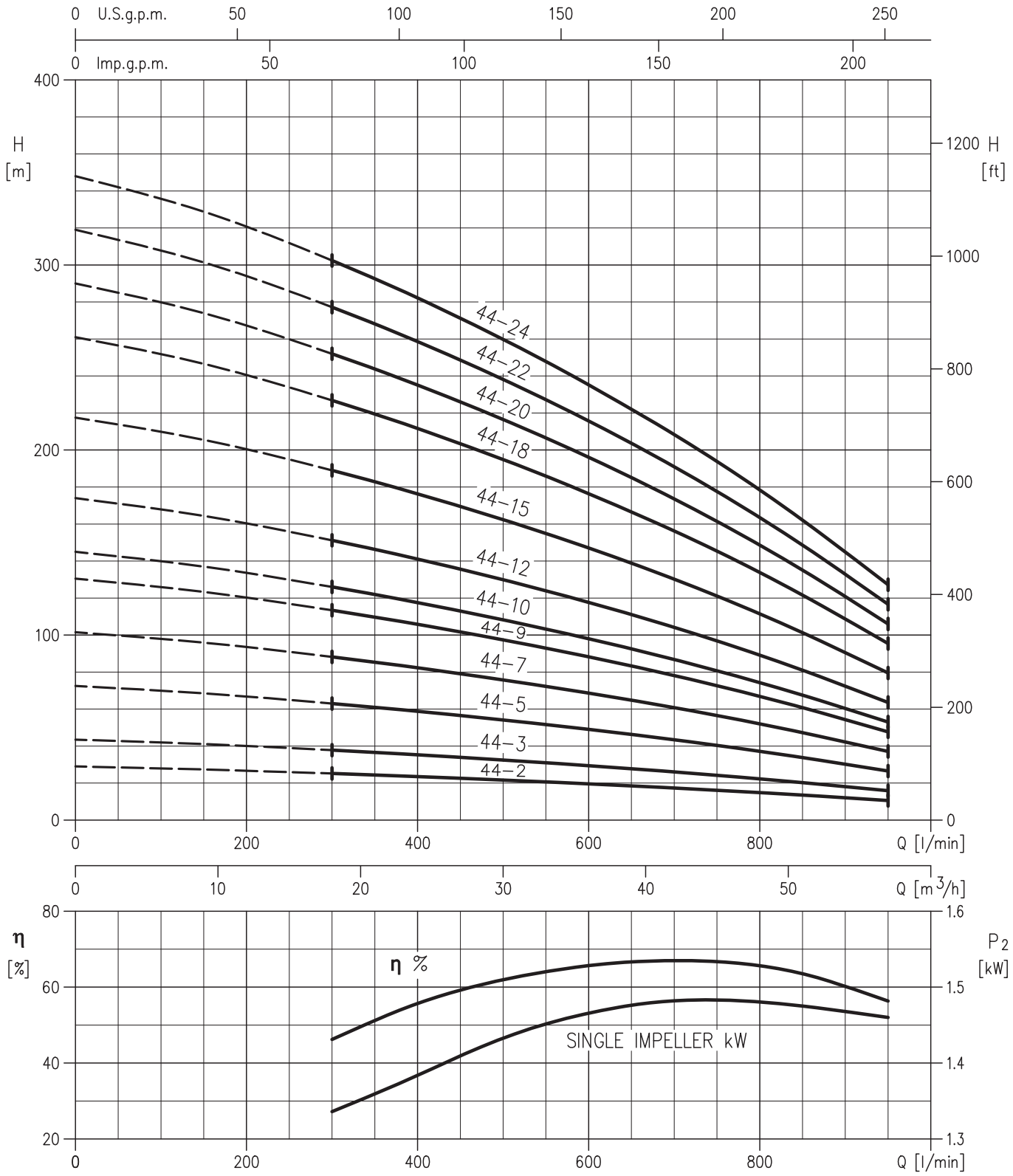
PERFORMANCE CURVES 6(4)BHE 19 *(according to ISO 9906 Annex A)*



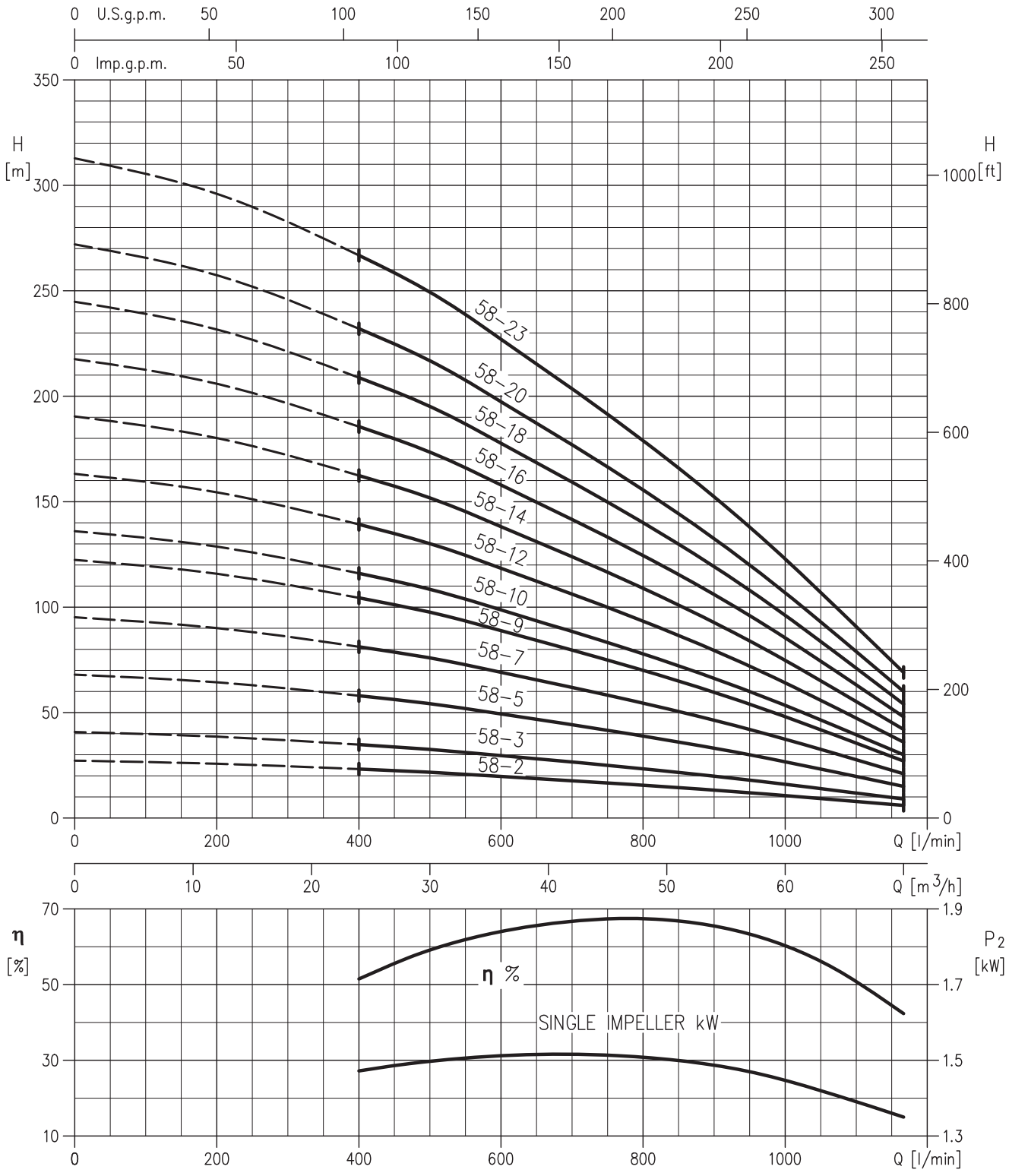
PERFORMANCE CURVES 6(4)BHE 30 *(according to ISO 9906 Annex A)*



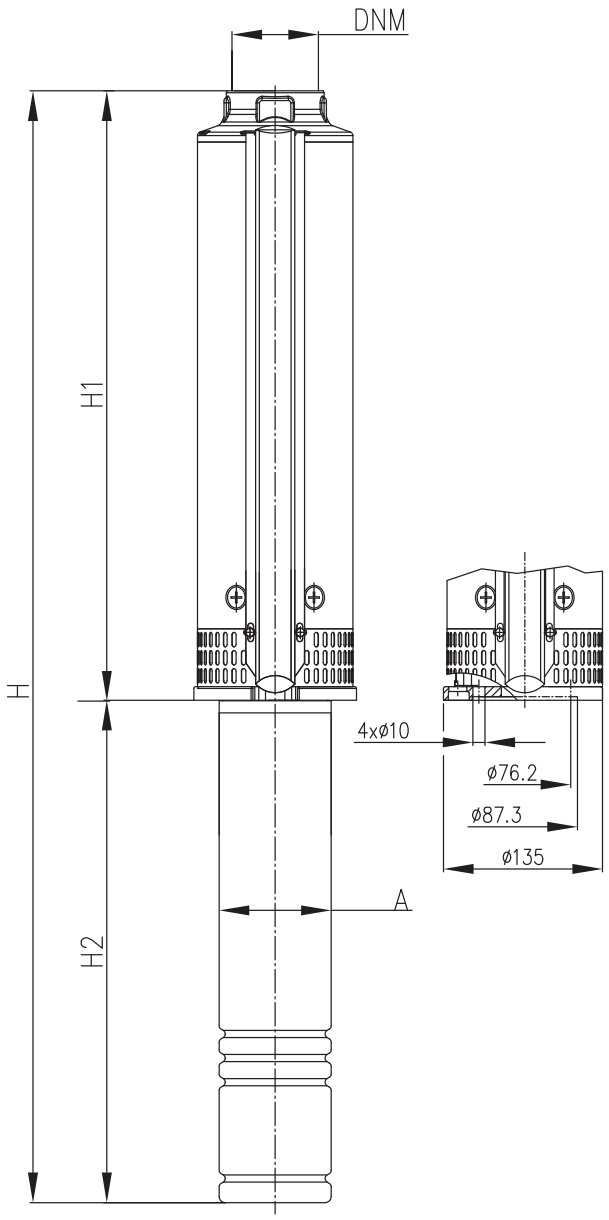
PERFORMANCE CURVES 6(4)BHE 44 *(according to ISO 9906 Annex A)*



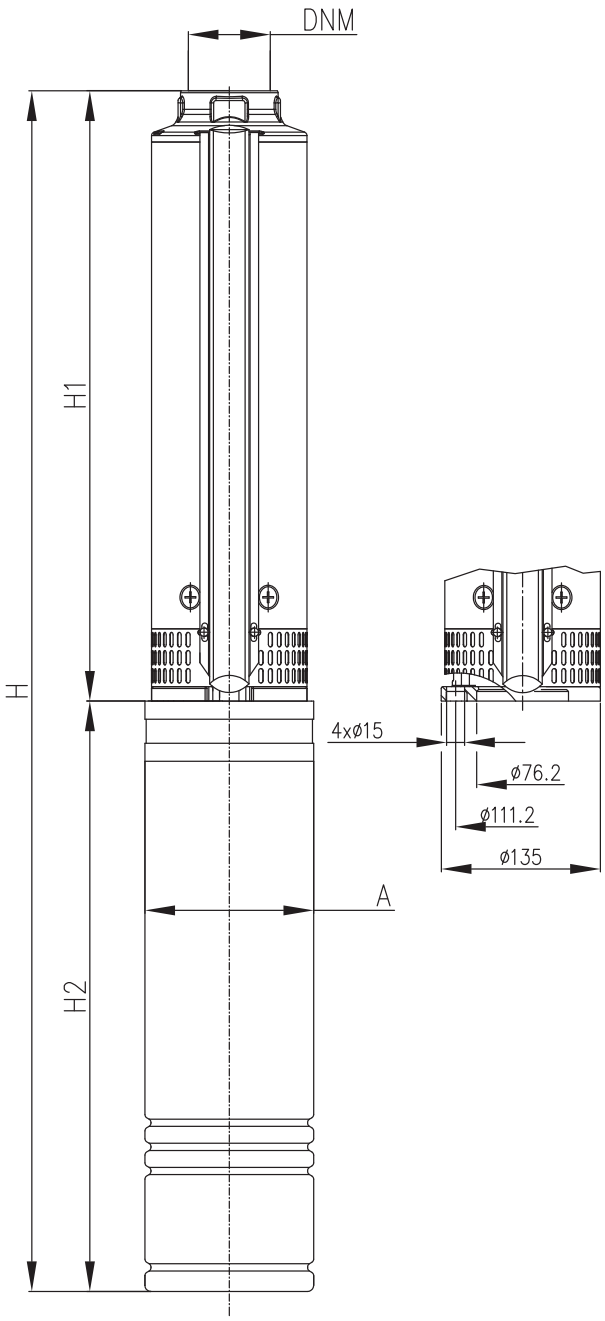
PERFORMANCE CURVES 6(4)BHE 58 *(according to ISO 9906 Annex A)*



Pump with 4" motor adapter (64BHE)



Pump with 6" motor adapter (6BHE)



DIMENSIONAL TABLE

	6 BHE without motor	64 BHE with motor 4"	6 BHE with motor 6"
Diameter with 1 cable cover	141	141	144
Diameter with 2 cable covers	145	-	146,5

DIMENSIONAL TABLE 6BHE 14 - 6BHE 19 - 6BHE 30

Pump type	Motor			Pump without motor			Pump with oil filled motor				Pump with water filled motor			
	size	Power kW	Power HP	H1 (mm)	DNM	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)
64 BHE 14 - 5	4"	2,2	3	356	Rp 2"1/2	10,5	97	466	820	25	95	440	794	27
64 BHE 14 - 8	4"	4	5,5	446	Rp 2"1/2	13	97	574	1018	33	95	583	1027	37
6 BHE 14 - 8	6"	4	5,5	446	Rp 2"1/2	13	139	540	986	51	137	581	1027	51
64 BHE 14 - 13	4"	5,5	7,5	596	Rp 2"1/2	16,5	97	644	1238	39	95	698	1291	46
6 BHE 14 - 13	6"	5,5	7,5	596	Rp 2"1/2	16,5	139	570	1166	57	137	614	1210	58
6 BHE 14 - 17	6"	7,5	10	716	Rp 2"1/2	19,5	139	600	1316	62	137	646	1362	65
6 BHE 14 - 22	6"	9,2	12,5	866	Rp 2"1/2	23	139	600	1466	68	137	679	1545	71
6 BHE 14 - 26	6"	11	15	986	Rp 2"1/2	26	139	700	1686	74	137	711	1697	77
6 BHE 14 - 32	6"	15	20	1166	Rp 2"1/2	30,5	139	760	1926	85	137	776	1942	87
6 BHE 14 - 36	6"	15	20	1286	Rp 2"1/2	33,5	139	760	2046	88	137	776	2062	90
6 BHE 14 - 42	6"	18,5	25	1466	Rp 2"1/2	38	139	830	2296	103	137	842	2308	101
64 BHE 19 - 6	4"	4	5,5	431	Rp 2"1/2	12	97	574	1003	32	95	583	1012	36
6 BHE 19 - 6	6"	4	5,5	431	Rp 2"1/2	12	139	540	971	50	137	581	1012	50
64 BHE 19 - 9	4"	5,5	7,5	543,5	Rp 2"1/2	14,5	97	644	1185	37	95	698	1239	44
6 BHE 19 - 9	6"	5,5	7,5	543,5	Rp 2"1/2	14,5	139	570	1114	55	137	614	1158	56
6 BHE 19 - 12	6"	7,5	10	656	Rp 2"1/2	16,5	139	600	1256	59	137	646	1302	62
6 BHE 19 - 15	6"	9,2	12,5	768,5	Rp 2"1/2	19	139	600	1369	64	137	679	1447	67
6 BHE 19 - 18	6"	11	15	881	Rp 2"1/2	21,5	139	700	1581	70	137	711	1592	72
6 BHE 19 - 21	6"	15	20	993,5	Rp 2"1/2	24	139	760	1754	78	137	776	1770	81
6 BHE 19 - 24	6"	15	20	1106	Rp 2"1/2	26,5	139	760	1866	81	137	776	1882	83
6 BHE 19 - 28	6"	18,5	25	1256	Rp 2"1/2	30	139	830	2086	95	137	842	2098	93
6 BHE 19 - 30	6"	18,5	25	1331	Rp 2"1/2	31,5	139	830	2161	97	137	842	2173	95
6 BHE 19 - 33	6"	22	30	1443,5	Rp 2"1/2	34	139	890	2334	104	137	907	2350	103
6 BHE 19 - 36	6"	22	30	1556	Rp 2"1/2	36,5	139	890	2446	107	137	907	2463	106
6 BHE 19 - 39	6"	30	40	1668	Rp 2"1/2	39	139	1030	2698	129	137	1037	2705	123
6 BHE 19 - 42	6"	30	40	1853	Rp 2"1/2	42	139	1030	2883	132	137	1037	2890	126
64 BHE 30 - 3	4"	3	4	365,5	Rp 3"	10,5	97	544	907	30	95	507	870	30
64 BHE 30 - 4	4"	4	5,5	412	Rp 3"	11,5	97	574	984	32	95	583	993	36
6 BHE 30 - 4	6"	4	5,5	412	Rp 3"	11,5	139	540	952	50	137	581	993	49
64 BHE 30 - 5	4"	5,5	7,5	458,5	Rp 3"	12,5	97	644	1100	35	95	698	1154	42
6 BHE 30 - 5	6"	5,5	7,5	458,5	Rp 3"	12,5	139	570	1029	53	137	614	1073	54
6 BHE 30 - 7	6"	7,5	10	551,5	Rp 3"	14,5	139	600	1152	57	137	646	1198	60
6 BHE 30 - 11	6"	11	15	737,5	Rp 3"	18,5	139	700	1438	67	137	711	1449	69
6 BHE 30 - 15	6"	15	20	923,5	Rp 3"	22,5	139	700	1624	77	137	776	1700	79
6 BHE 30 - 19	6"	18,5	25	1109,5	Rp 3"	26	139	830	1940	91	137	842	1951	89
6 BHE 30 - 23	6"	22	30	1295,5	Rp 3"	30	139	890	2186	100	137	907	2202	99
6 BHE 30 - 27	6"	30	40	1481,5	Rp 3"	34	139	1030	2512	124	137	1037	2518	118
6 BHE 30 - 31	6"	30	40	1667,5	Rp 3"	38	139	1030	2698	128	137	1037	2704	122
6 BHE 30 - 33	6"	37	50	1760	Rp 3"	40	-	-	-	-	137	1405	3165	175
6 BHE 30 - 36	6"	37	50	1899,5	Rp 3"	43	-	-	-	-	137	1405	3304	178

DIMENSIONAL TABLE 6BHE 44 - 6BHE 58

Pump type	Motor			Pump without motor			Pump with oil filled motor				Pump with water filled motor			
	size	Power kW	Power HP	H1 (mm)	DNM	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)
64 BHE 44 - 2	4"	3	4	365,5	Rp 3"	11	97	544	907	30	95	507	870	30
64 BHE 44 - 3	4"	5,5	7,5	458,5	Rp 3"	13,5	97	644	1100	36	95	698	1154	43
6 BHE 44 - 3	6"	5,5	7,5	458,5	Rp 3"	13,5	139	570	1029	54	137	614	1073	55
6 BHE 44 - 5	6"	7,5	10	644,5	Rp 3"	18	139	600	1245	60	137	646	1291	63
6 BHE 44 - 7	6"	11	15	830,5	Rp 3"	22,5	139	700	1531	71	137	711	1542	73
6 BHE 44 - 9	6"	15	20	1016,5	Rp 3"	27	139	760	1777	81	137	776	1793	84
6 BHE 44 - 10	6"	15	20	1109,5	Rp 3"	29,5	139	760	1870	84	137	776	1886	86
6 BHE 44 - 12	6"	18,5	25	1295,5	Rp 3"	34	139	830	2126	99	137	842	2137	97
6 BHE 44 - 15	6"	22	30	1574,5	Rp 3"	40,5	139	890	2465	111	137	907	2481	110
6 BHE 44 - 18	6"	30	40	1853,5	Rp 3"	47,5	139	1030	2884	138	137	1037	2890	131
6 BHE 44 - 20	6"	30	40	2039,5	Rp 3"	52	139	1030	3070	142	137	1037	3076	136
6 BHE 44 - 22	6"	37	50	2225,5	Rp 3"	56,5	-	-	-	-	137	1405	3630	192
6 BHE 44 - 24	6"	37	50	2411	Rp 3"	61	-	-	-	-	137	1405	3816	196
64 BHE 58 - 2	4"	3	4	365,5	Rp 3"	11,5	97	544	907	31	95	507	870	31
64 BHE 58 - 3	4"	5,5	7,5	458,5	Rp 3"	13,5	97	644	1100	36	95	698	1154	43
6 BHE 58 - 3	6"	5,5	7,5	458,5	Rp 3"	13,5	139	570	1029	54	137	614	1073	55
6 BHE 58 - 5	6"	7,5	10	644,5	Rp 3"	18	139	600	1245	60	137	646	1291	63
6 BHE 58 - 7	6"	11	15	830,5	Rp 3"	23	139	700	1531	71	137	711	1542	74
6 BHE 58 - 9	6"	15	20	1016,5	Rp 3"	27,5	139	760	1777	82	137	776	1793	84
6 BHE 58 - 10	6"	15	20	1109,5	Rp 3"	30	139	760	1870	84	137	776	1886	87
6 BHE 58 - 12	6"	18,5	25	1295,5	Rp 3"	34,5	139	830	2126	100	137	842	2137	98
6 BHE 58 - 14	6"	22	30	1481,5	Rp 3"	39	139	890	2372	109	137	907	2388	108
6 BHE 58 - 16	6"	30	40	1667,5	Rp 3"	44	139	1030	2698	134	137	1037	2704	128
6 BHE 58 - 18	6"	30	40	1853,5	Rp 3"	48,5	139	1030	2884	139	137	1037	2890	132
6 BHE 58 - 20	6"	37	50	2040	Rp 3"	52	-	-	-	-	137	1405	3445	187
6 BHE 58 - 23	6"	37	50	2318	Rp 3"	60	-	-	-	-	137	1405	3723	195

8BHEL

8" BOREHOLE CENTRIFUGAL PUMPS

Stainless steel borehole turbine pumps for 8" deep wells specially designed to answer the high volume water needs in water works and water distribution, private and public, sprinkler systems for agricultural irrigation, supply of water for processing and cooling applications in industry, pressure booster sets and water treatment plants.

SPECIFICATIONS

- Maximum allowable amount of sand 50 ppm
- Maximum liquid temperature: 50°C

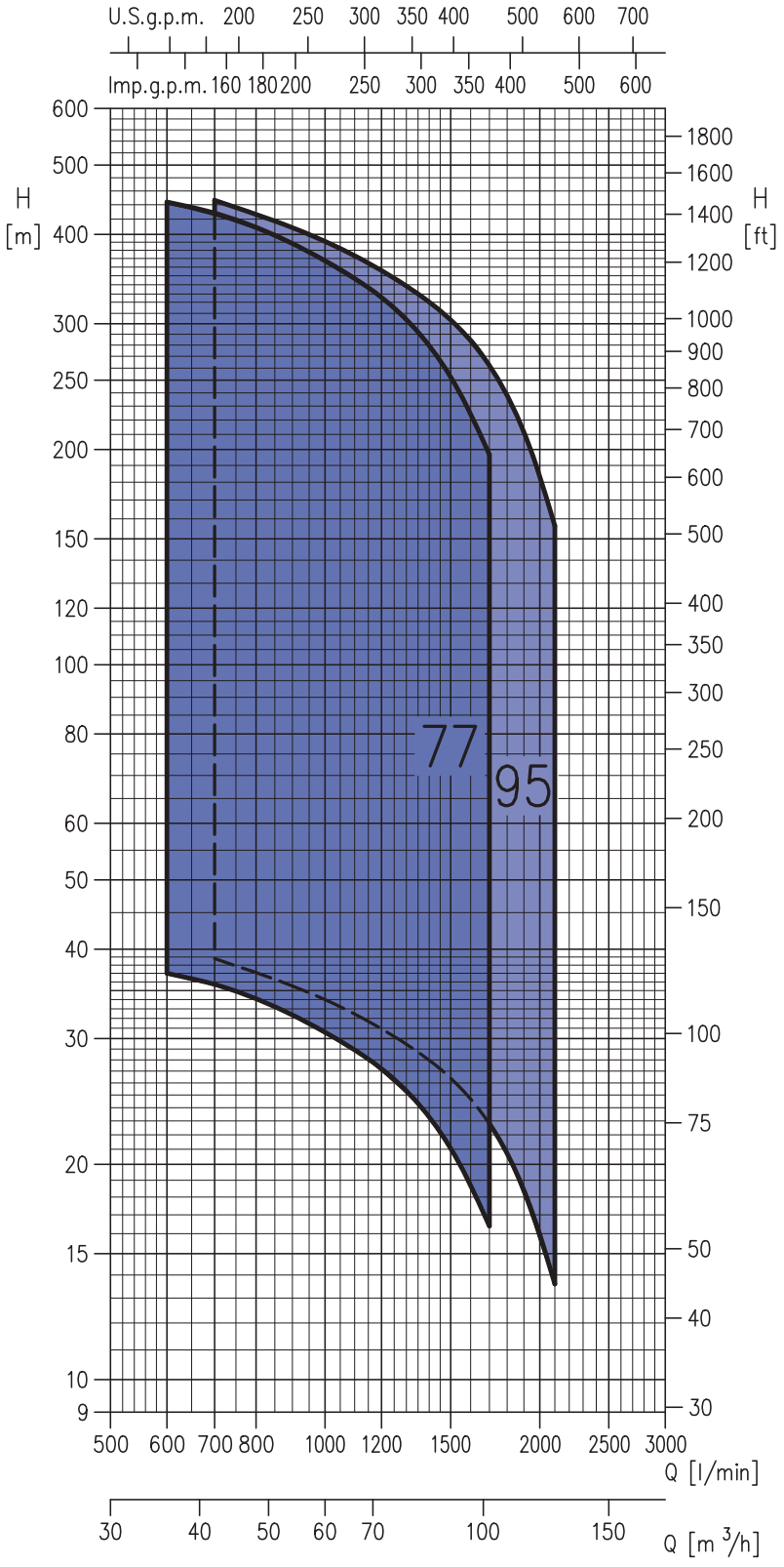
MATERIALS

- Completely in AISI 316
- Built and designed to resist the most complex and severe conditions
- All parts subject to wear can be easily replaced. No special tools are needed
- External stainles sleeve connected to the suction and delivery ends by a removable device
- Impellers and turbine bowls with three-dimensional twisted blades to enhace efficiency and delivery head per stage

TECHNICAL DATA

- Double cable guard
- Discharge outlet adapters
- Protection degree IP58 (OY), IP68 (WY)
- 3~ 380V -10% 50 Hz (OY)
  3~ 400V +6% 50 Hz (OY)
  3~ 380V -10% 50 Hz (WY)
  3~ 415V +6% 50 Hz (WY)
- Insulation class F (6" OY version)
  (8" WY version)
  B (6" WY version)
- Discharge Rp 5"

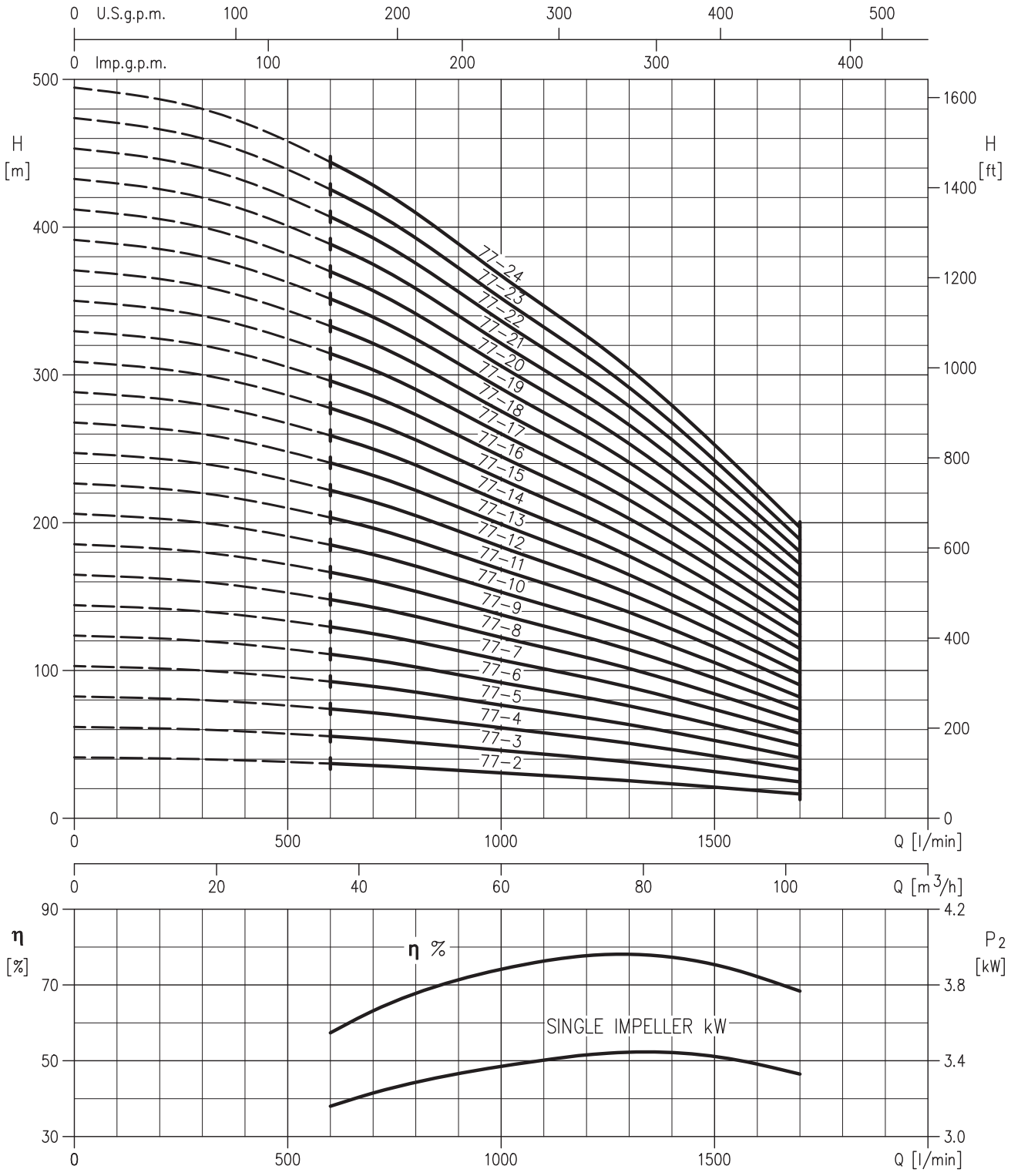
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



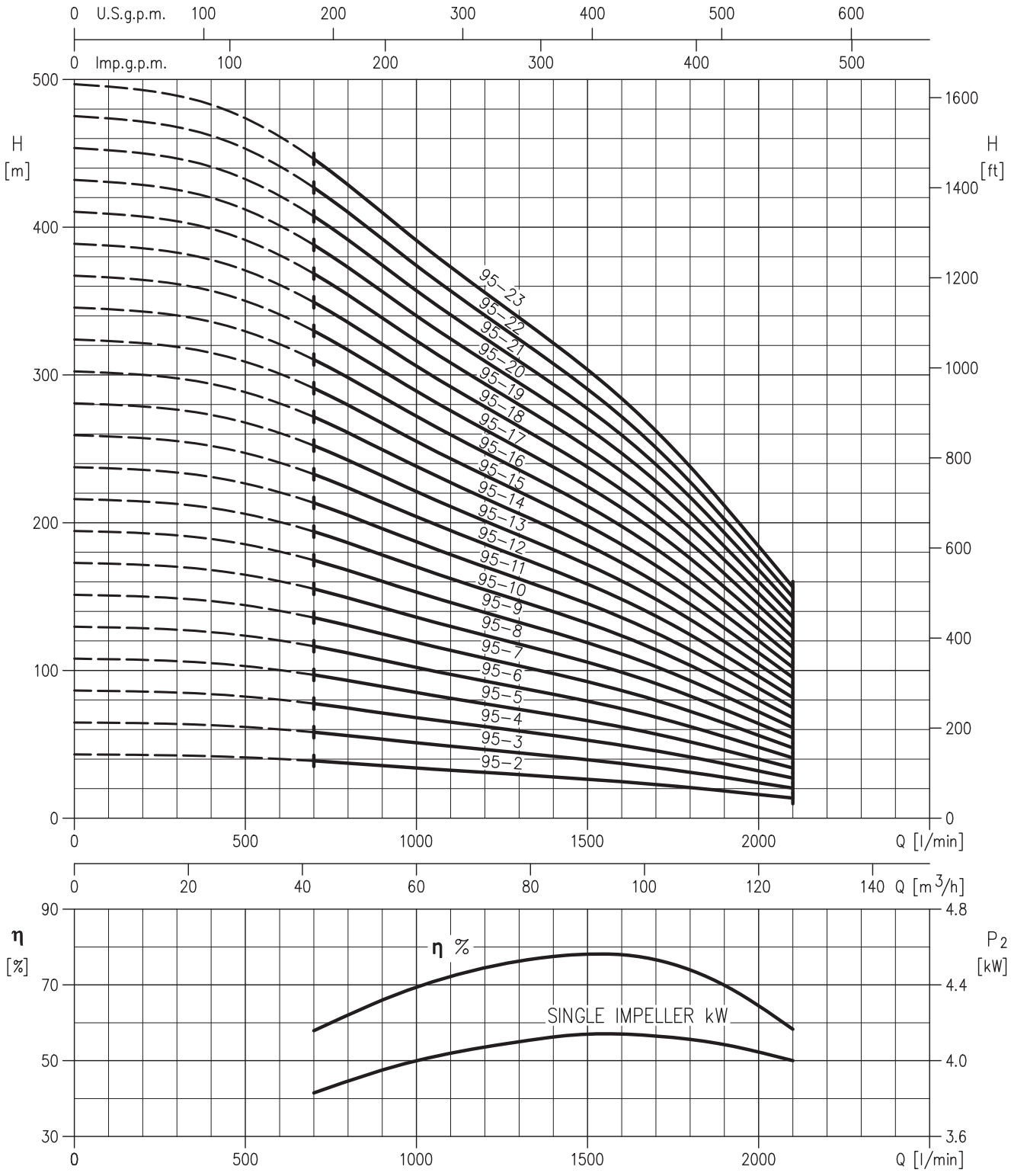
PERFORMANCE TABLE

Pump type	Motor			Q=Capacity								
		Power		l/min	0	600	700	1000	1250	1500	1700	1900	2100
	size	kW	HP	m^3/h	0	36	42	60	75	90	102	114	126
				H=Total head									
86 BHE 77 - 2	6"	7,5	10		41	37	35,7	30,6	26,3	21,1	16,4	-	-
86 BHE 77 - 3	6"	11	15		62	55,5	53,5	46	39,5	31,6	24,6	-	-
86 BHE 77 - 4	6"	15	20		82,5	74	71,5	61	52,5	42	32,8	-	-
86 BHE 77 - 5	6"	18,5	25		103	92,5	89,5	76,5	66	52,5	41	-	-
86 BHE 77 - 6	6"	22	30		124	111	107	92	79	63	49	-	-
86 BHE 77 - 7	6"	30	40		144	130	125	107	92	73,5	57,5	-	-
86 BHE 77 - 8	6"	30	40		165	148	143	122	105	84	65,5	-	-
86 BHE 77 - 9	6"	30	40		185	167	161	138	118	95	74	-	-
86 BHE 77 - 10	6"	37	50		206	185	179	153	132	105	82	-	-
86 BHE 77 - 11	6"	37	50		227	204	196	168	145	116	90	-	-
8 BHE 77 - 12	8"	45	60		247	222	214	184	158	126	98,5	-	-
8 BHE 77 - 13	8"	55	75		268	241	232	199	171	137	107	-	-
8 BHE 77 - 14	8"	55	75		288	259	250	214	184	147	115	-	-
8 BHE 77 - 15	8"	55	75		309	278	268	230	197	158	123	-	-
8 BHE 77 - 16	8"	75	100		330	296	286	245	210	168	131	-	-
8 BHE 77 - 17	8"	75	100		350	315	303	260	224	179	139	-	-
8 BHE 77 - 18	8"	75	100		371	333	321	275	237	190	148	-	-
8 BHE 77 - 19	8"	75	100		391	352	339	291	250	200	156	-	-
8 NHE 77 - 20	8"	75	100		412	370	357	306	263	211	164	-	-
8 BHE 77 - 21	8"	75	100		433	389	375	321	276	221	172	-	-
8 BHE 77 - 22	8"	93	125		453	407	393	337	289	232	180	-	-
8 BHE 77 - 23	8"	93	125		474	426	411	352	302	242	189	-	-
8 BHE 77 - 24	8"	93	125		494	444	428	367	316	253	197	-	-
86 BHE 95 - 2	6"	9,2	12,5		43	-	38,8	34	30,2	26,4	22,8	18,4	13,6
86 BHE 95 - 3	6"	15	20		65	-	58	51	45,5	39,6	34,2	27,6	20,4
86 BHE 95 - 4	6"	18,5	25		86,5	-	77,5	68	60,5	53	45,5	36,8	27,2
86 BHE 95 - 5	6"	22	30		108	-	97	85	75,5	66	57	46	34
86 BHE 95 - 6	6"	30	40		130	-	116	102	90,5	79	68,5	55	41
86 BHE 95 - 7	6"	30	40		151	-	136	119	106	92,5	80	64,5	47,5
86 BHE 95 - 8	6"	37	50		173	-	155	136	121	106	91	73,5	54,5
86 BHE 95 - 9	6"	37	50		194	-	175	153	136	119	103	83	61
8 BHE 95 - 10	8"	45	60		216	-	194	170	151	132	114	92	68
8 BHE 95 - 11	8"	55	75		238	-	213	187	166	145	125	101	75
8 BHE 95 - 12	8"	55	75		259	-	233	204	181	158	137	110	81,5
8 BHE 95 - 13	8"	55	75		281	-	252	221	196	172	148	120	88,5
8 BHE 95 - 14	8"	75	100		302	-	272	238	211	185	160	129	95
8 BHE 95 - 15	8"	75	100		324	-	291	255	227	198	171	138	102
8 BHE 95 - 16	8"	75	100		346	-	310	272	242	211	182	147	109
8 BHE 95 - 17	8"	75	100		367	-	330	289	257	224	194	156	116
8 BHE 95 - 18	8"	93	125		389	-	349	306	272	238	205	166	122
8 BHE 95 - 19	8"	93	125		410	-	369	323	287	251	217	175	129
8 BHE 95 - 20	8"	93	125		432	-	388	340	302	264	228	184	136
8 BHE 95 - 21	8"	93	125		454	-	407	357	317	277	239	193	143
8 BHE 95 - 22	8"	110	150		475	-	427	374	332	290	251	202	150
8 BHE 95 - 23	8"	110	150		497	-	446	391	347	304	262	212	156

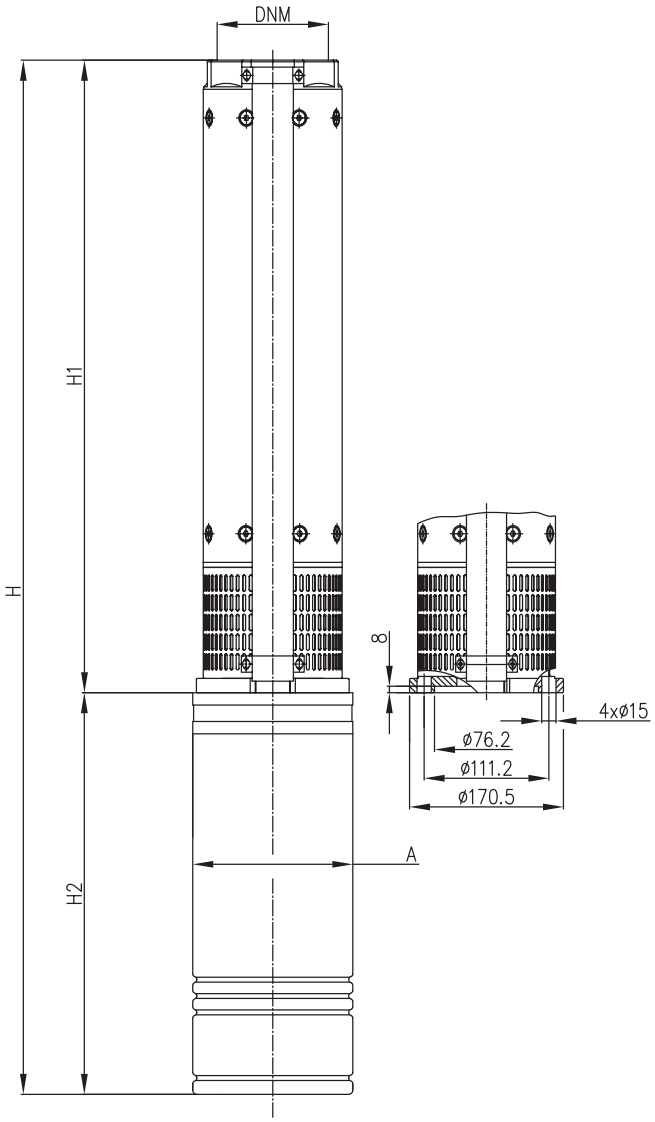
PERFORMANCE CURVES 8(6)BHE 77 *(according to ISO 9906 Annex A)*



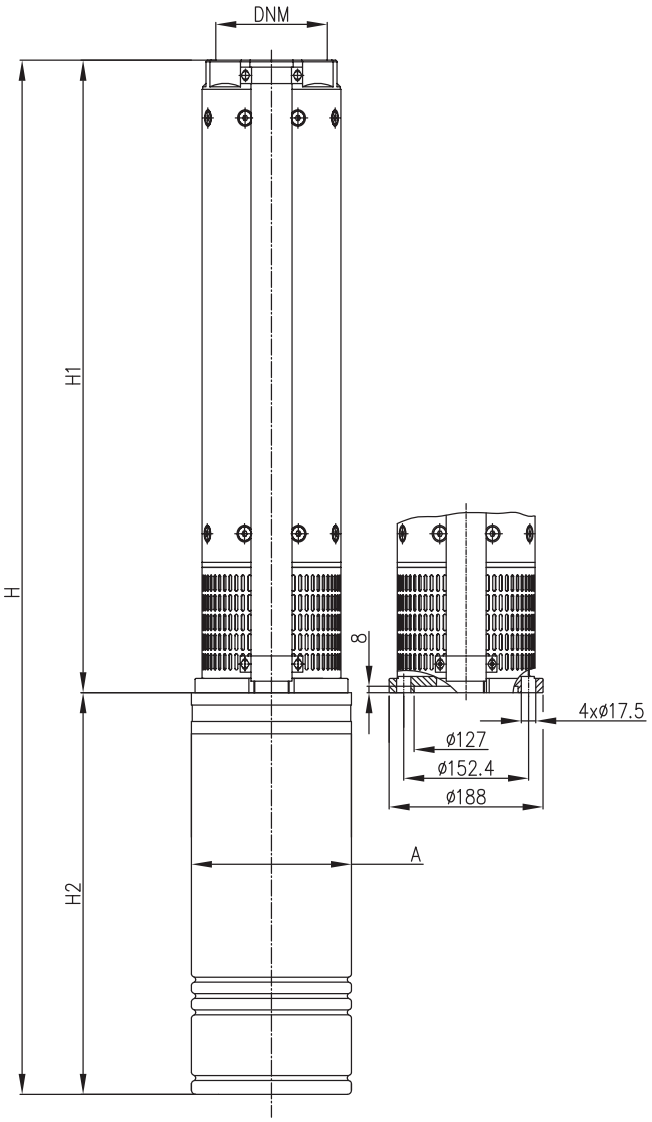
PERFORMANCE CURVES 8(6)BHE 95 *(according to ISO 9906 Annex A)*



Pump with 6" motor adapter



Pump with 8" motor adapter



DIMENSIONAL TABLE

	8 BHE without motor	86 BHE with motor 6"	8 BHE with motor 8"
Diameter with 1 cable cover	186,5	186,5	195
Diameter with 2 cable covers	192	192	197,5

DIMENSIONAL TABLE 8BHE 77 - 8BHE 95

Pump type	Motor			Pump without motor			Pump with oil filled motor				Pump with water filled motor			
	size	Power kW	Power HP	H1 (mm)	DNM	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)	A (mm)	H2 (mm)	H (mm)	Weight (kg)
86 BHE 77 - 2	6"	7,5	10	644	Rp 5"	31,5	139	600	1244	74	137	646	1290	-
86 BHE 77 - 3	6"	11	15	770	Rp 5"	36,5	139	700	1470	85	137	711	1481	-
86 BHE 77 - 4	6"	15	20	896	Rp 5"	41,5	139	760	1656	96	137	776	1672	98
86 BHE 77 - 5	6"	18,5	25	1022	Rp 5"	46,5	139	830	1852	112	137	842	1864	110
86 BHE 77 - 6	6"	22	30	1148	Rp 5"	51	139	890	2038	121	137	907	2055	120
86 BHE 77 - 7	6"	30	40	1274	Rp 5"	56	139	1030	2304	146	137	1037	2311	140
86 BHE 77 - 8	6"	30	40	1400	Rp 5"	61	139	1030	2430	151	137	1037	2437	145
86 BHE 77 - 9	6"	30	40	1526	Rp 5"	66	139	1030	2556	156	137	1037	2563	150
86 BHE 77 - 10	6"	37	50	1652	Rp 5"	71	-	-	-	-	137	1405	3057	206
86 BHE 77 - 11	6"	37	50	1778	Rp 5"	76	-	-	-	-	137	1405	3183	211
8 BHE 77 - 12	8"	45	60	1909	Rp 5"	82	-	-	-	-	191	1077	2986	227
8 BHE 77 - 13	8"	55	75	2035	Rp 5"	87	-	-	-	-	191	1204	3239	262
8 BHE 77 - 14	8"	55	75	2161	Rp 5"	92	-	-	-	-	191	1204	3365	267
8 BHE 77 - 15	8"	55	75	2287	Rp 5"	97	-	-	-	-	191	1204	3491	272
8 BHE 77 - 16	8"	75	100	2413	Rp 5"	101,5	-	-	-	-	191	1395	3808	315
8 BHE 77 - 17	8"	75	100	2539	Rp 5"	106,5	-	-	-	-	191	1395	3934	320
8 BHE 77 - 18	8"	75	100	2665	Rp 5"	111,5	-	-	-	-	191	1395	4060	325
8 BHE 77 - 19	8"	75	100	2791	Rp 5"	116,5	-	-	-	-	191	1395	4186	330
8 BHE 77 - 20	8"	75	100	2917	Rp 5"	121	-	-	-	-	191	1395	4312	334
8 BHE 77 - 21	8"	75	100	3043	Rp 5"	126	-	-	-	-	191	1395	4438	339
8 BHE 77 - 22	8"	93	125	3169	Rp 5"	131	-	-	-	-	191	1747	4916	422
8 BHE 77 - 23	8"	93	125	3295	Rp 5"	136	-	-	-	-	191	1747	5042	427
8 BHE 77 - 24	8"	93	125	3421	Rp 5"	141	-	-	-	-	191	1747	5168	432
86 BHE 95 - 2	6"	9,2	12,5	644	Rp 5"	31,5	139	600	1244	77	137	678,7	1323	79
86 BHE 95 - 3	6"	15	20	770	Rp 5"	36,5	139	760	1530	91	137	776	1546	93
86 BHE 95 - 4	6"	18,5	25	896	Rp 5"	41,5	139	830	1726	107	137	842	1738	105
86 BHE 95 - 5	6"	22	30	1022	Rp 5"	46	139	890	1912	116	137	907	1929	115
86 BHE 95 - 6	6"	30	40	1148	Rp 5"	51	139	1030	2178	141	137	1037	2185	135
86 BHE 95 - 7	6"	30	40	1274	Rp 5"	56	139	1030	2304	146	137	1037	2311	140
86 BHE 95 - 8	6"	37	50	1400	Rp 5"	61	-	-	-	-	137	1405	2805	196
86 BHE 95 - 9	6"	37	50	1526	Rp 5"	66	-	-	-	-	137	1405	2931	201
8 BHE 95 - 10	8"	45	60	1657	Rp 5"	72	-	-	-	-	191	1077	2734	217
8 BHE 95 - 11	8"	55	75	1783	Rp 5"	77	-	-	-	-	191	1204	2987	252
8 BHE 95 - 12	8"	55	75	1909	Rp 5"	82	-	-	-	-	191	1204	3113	257
8 BHE 95 - 13	8"	55	75	2035	Rp 5"	87	-	-	-	-	191	1204	3239	262
8 BHE 95 - 14	8"	75	100	2161	Rp 5"	92	-	-	-	-	191	1395	3556	305
8 BHE 95 - 15	8"	75	100	2287	Rp 5"	97	-	-	-	-	191	1395	3682	310
8 BHE 95 - 16	8"	75	100	2413	Rp 5"	102	-	-	-	-	191	1395	3808	315
8 BHE 95 - 17	8"	75	100	2539	Rp 5"	106,5	-	-	-	-	191	1395	3934	320
8 BHE 95 - 18	8"	93	125	2665	Rp 5"	111,5	-	-	-	-	191	1747	4412	403
8 BHE 95 - 19	8"	93	125	2791	Rp 5"	116,5	-	-	-	-	191	1747	4538	408
8 BHE 95 - 20	8"	93	125	2917	Rp 5"	121	-	-	-	-	191	1747	4664	412
8 BHE 95 - 21	8"	93	125	3043	Rp 5"	126	-	-	-	-	191	1747	4790	417
8 BHE 95 - 22	8"	110	150	3169	Rp 5"	131	-	-	-	-	191	1975	5144	465
8 BHE 95 - 23	8"	110	150	3295	Rp 5"	136	-	-	-	-	191	1975	5270	470

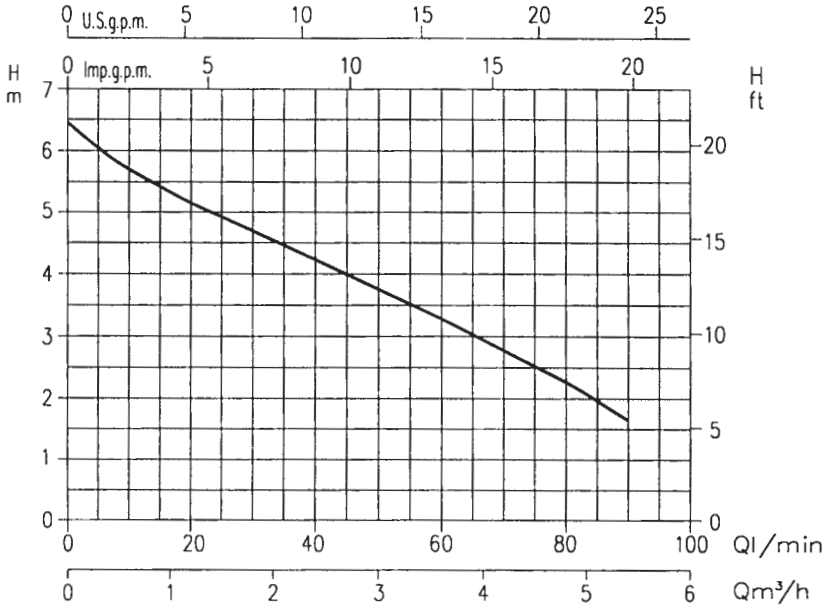
Submersible pumps for clear and sump water suitable for domestic applications, drainage of flooded rooms, garden fountains, small irrigation and movement of rain water.

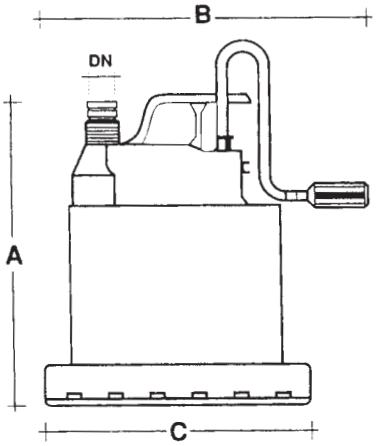
SPECIFICATIONS
- Maximum immersion depth: 4m
- Maximum liquid temperature: 40°C

MATERIALS
- Pump casing, strainer and impeller made in tecnopolymer
- Shaft in stainless steel
- Mechanical seal in carbon/ceramic

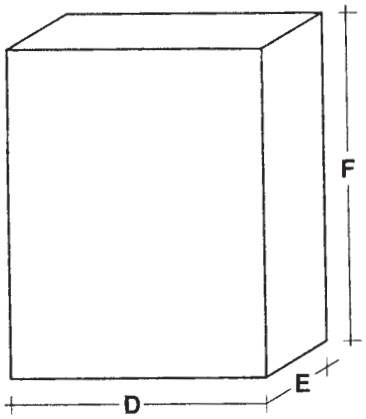
TECHNICAL DATA
- Asincronous 2 poles motor
- 1~230V ±10% 50Hz, 3~400V ±10% 50Hz
- Permanent split capacitor and automatic thermal overload protection
- Outlet: 1” suitable also for flexible pipe connection

PERFORMANCE CURVE *(according to UNI 9906 Annex A)*





	DN	A	B	C	D	E	F	kg
KIKA	1”	240	370	165	220	185	270	3,7



PERFORMANCE TABLE

Pump type	INPUT W (W)	Capacitor µF	Capacitor Vc	INPUT Current	Q = Capacity L/min. 0	10	20	30	40	50	60	70	80	90
					m³/h 0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4
					H = Total head									
KIKA	230	8	450	1 A	6,4	5,7	5,2	4,7	4,2	3,7	3,2	2,8	2,3	1,8

OPTIMA

SUBMERSIBLE SUMP PUMPS in AISI 304

*Submersible pumps used for draining wells, garages, cellars or places subject to flooding, garden irrigation and handling of water not containing solids. Technological development and mechanics have been optimised, with **mechanical seal** as **standard**. New and revised design. Come with 5 length of H05RN-F power cord for internal use (10 m for external use), with or without float.*

NEW

SPECIFICATIONS

- Maximum immersion: 5 m
- Maximum liquid temperature: 50°C
- Maximum solid size: 10 mm

MATERIALS

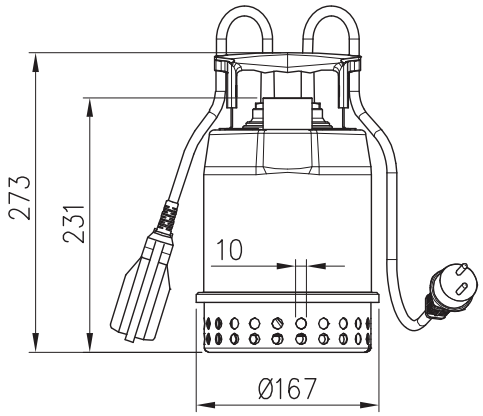
- External casing, filter, casing over and pump casing in AISI 304
- Impeller and motor cover in PPE + PS glass fiber reinforced
- Shaft in stainless steel AISI 303
- Mechanical seal as standard (Carbon/Ceramic/NBR)
- Version with small volume magnetic float switch MS (vertical position) for clean water
- Minimum suction system to suck up liquids up to 3 mm at ground level

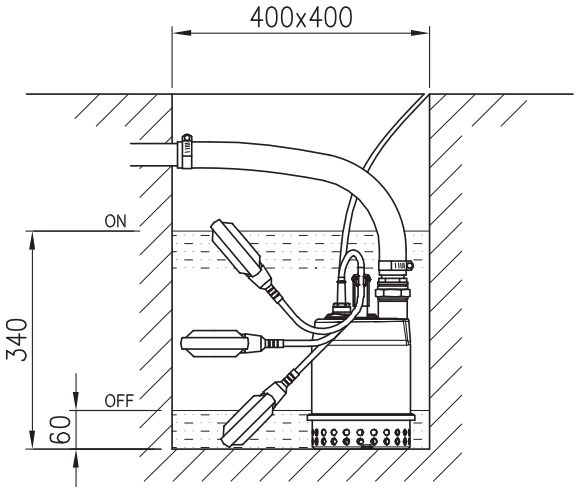
TECHNICAL DATA

- Motor dry, 2 poles
- Insulation class F
- Protection degree IP68
- Single phase motor 230V ±10% 50 Hz
- Discharge 1”1/4

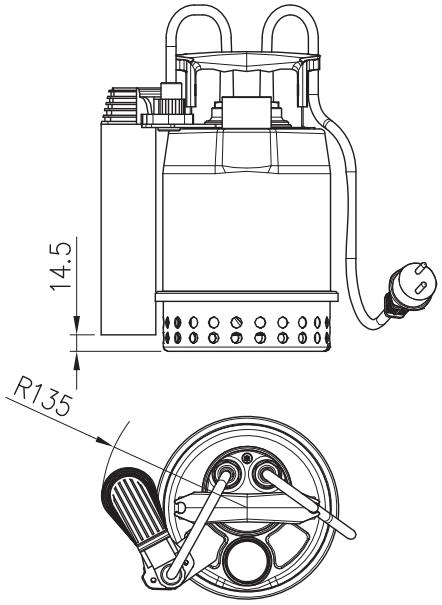
VERSIONS

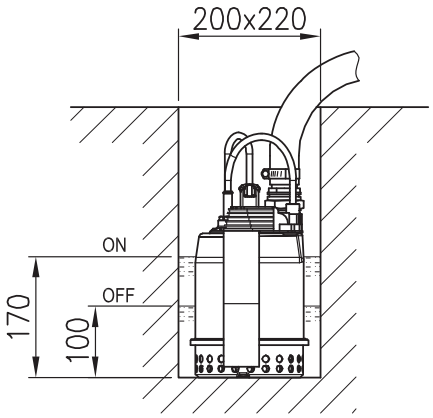
OPTIMA MA





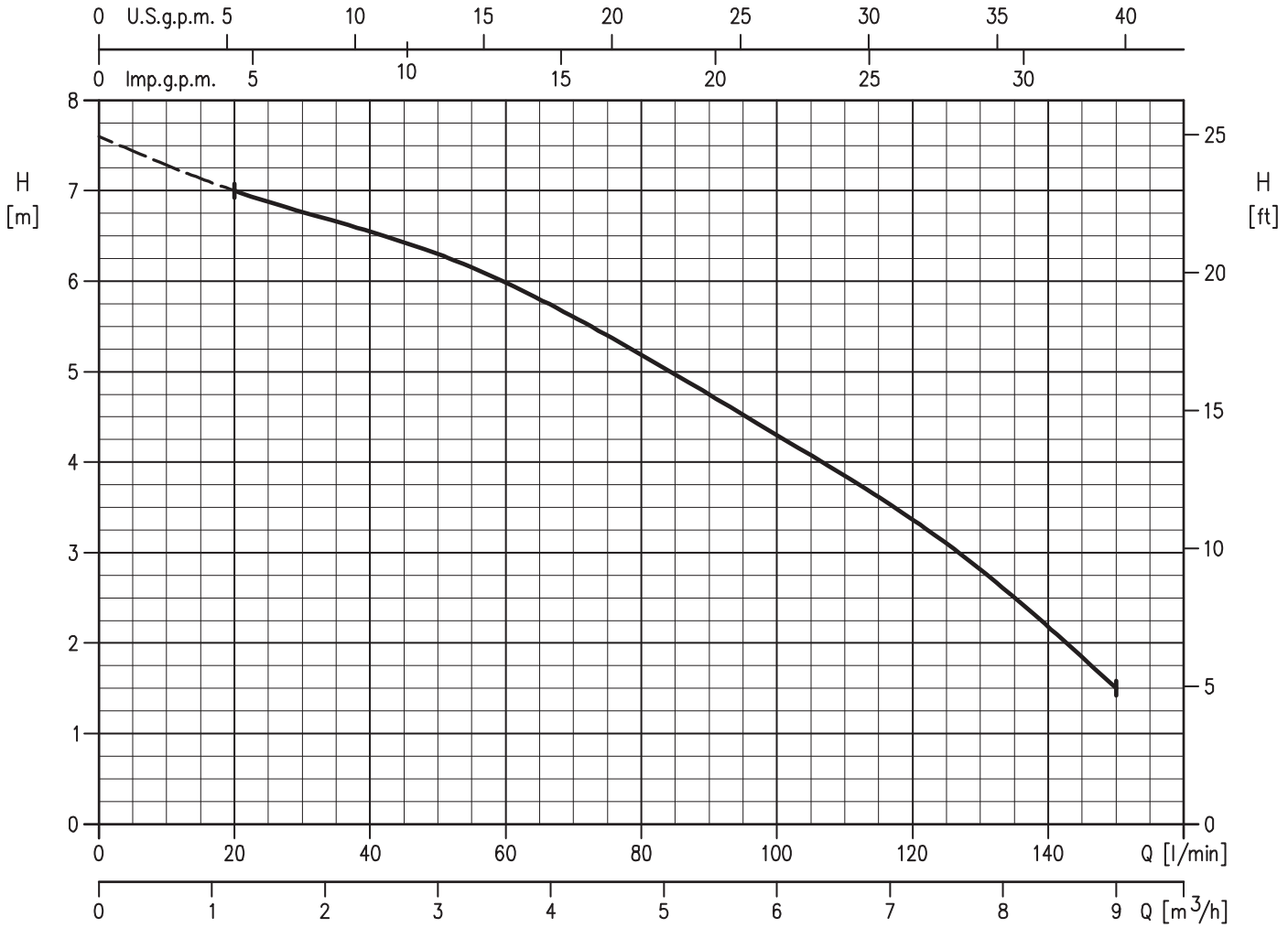
OPTIMA MS





Minimum suction system to suck up liquids
up to 3 mm at ground level

PERFORMANCE CURVE *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type Single-phase 230 V	kW	HP	Capacitor µF	Capacitor Vc [V]	Abs. Curr. (A) [A]	Q=Capacity						
						l/min 0	20	50	75	100	125	150
						m³/h 0	1,2	3	4,5	6	7,5	9
						H=Total head						
OPTIMA M	0,25	0,33	8	450	1,90	7,6	7,0	6,3	5,4	4,3	3,1	1,5

Pump type	Weight (kg)
OPTIMA M	4,2
OPTIMA MA	4,4
OPTIMA MS	4,6

Submersible pumps completely in AISI 304 used for draining wells, garages, cellars or places subject to flooding, garden irrigation and handling of water not containing solids. Technological development and mechanics have been optimised, with ***mechanical seal*** *as* ***standard****. New and revised design. Come with 5 length of H05RN-F power cord for internal use (10 m for external use), with or without float.*

NEW

SPECIFICATIONS

- Maximum liquid temperature: 50°C
- Maximum immersion: 5 m
- Maximum passage of solids: 10 mm
  20 mm per VOX version

MATERIALS

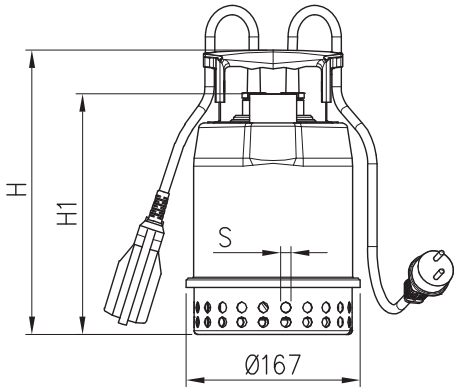
- Pump casing, impeller strainer, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303 + AISI 303 ceramic coated shaft sleeve
- Mechanical seal in carbon/ceramic/NBR

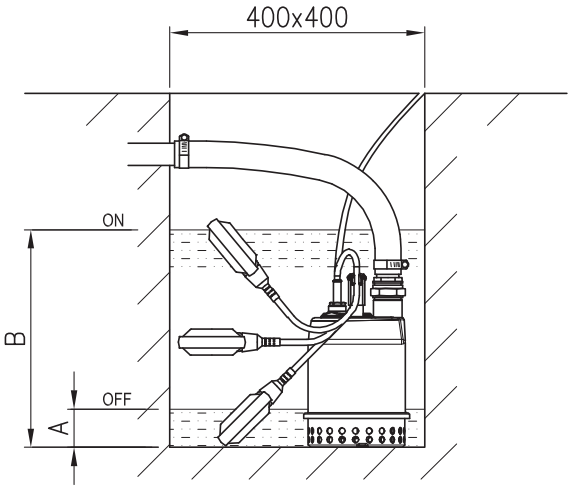
TECHNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V ± 10%, 50Hz 3~ 400 ±10%, 50Hz
- Discharge 1” 1/4

VERSIONS

BEST ONE MA / ONE VOX MA

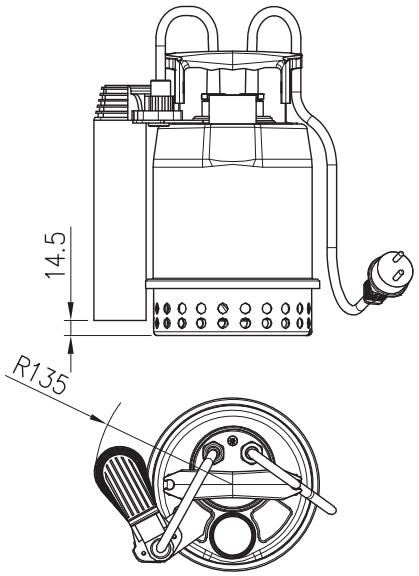


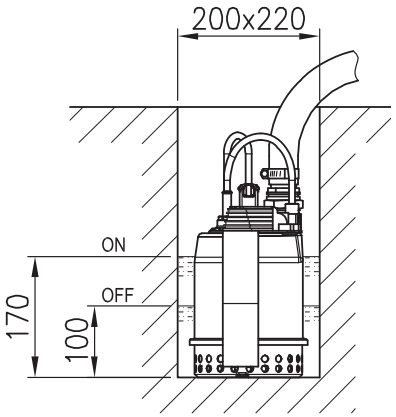


DIMENSIONAL TABLE

Pump type	H1	S
BEST ONE MA	220	10
BEST ONE VOX MA	245	20

BEST ONE MS

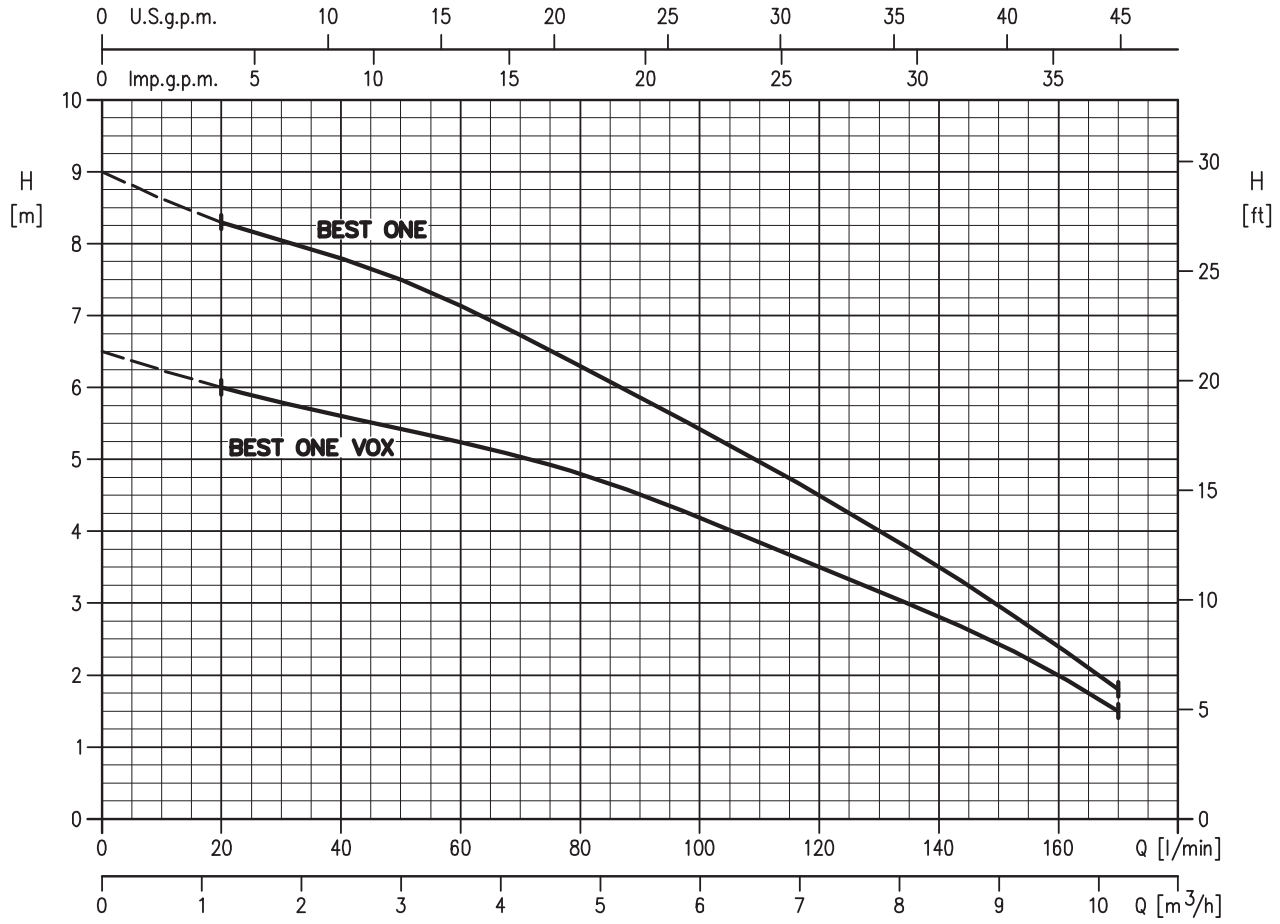




DIMENSIONAL TABLE

Pump type	Dimensions (mm)			Weight (kg)
	H	H1	S	
BEST ONE	273	231	10	4,3
BEST ONE M	273	231	10	4,4
BEST ONE MA	273	231	10	4,6
BEST ONE MS	273	231	10	4,8
BEST ONE VOX	304	262	20	4,4
BEST ONE VOX M	304	262	20	4,5
BEST ONE VOX MA	304	262	20	4,7

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Abs. Current (A)		Q=Capacity						
Single-phase 230V	Three-phase 400V		µF	Vc	Single-phase	Three-phase	l/min	0	20	40	80	120	160	170
							m³/h	0	1,2	2,4	4,8	7,2	9,6	10,2
							H=Total head							
BEST ONE M	BEST ONE	0,25	8	450	2,2	1,1		9,0	8,3	7,8	6,3	4,5	2,4	1,8
BEST ONE VOX M	BEST ONE VOX	0,25	8	450	2,0	1,0		6,5	6,0	5,6	4,8	3,5	2,0	1,5

BEST 2-3-4-5

SUBMERSIBLE SUMP PUMPS in AISI 304

Submersible sump pump made of stainless steel AISI 304, double mechanical seals ensure long life and reliability. Suitable for draining wells, plant room sump, lift shaft emptying, pools, sumps, irrigation, and water displays. Options include with or without float switch. Solids handling up to 10 mm

SPECIFICATIONS

- Maximum liquid temperature: 35°C
- Maximum immersion: 10 m
- Maximum passage of solids: 10 mm

MATERIALS

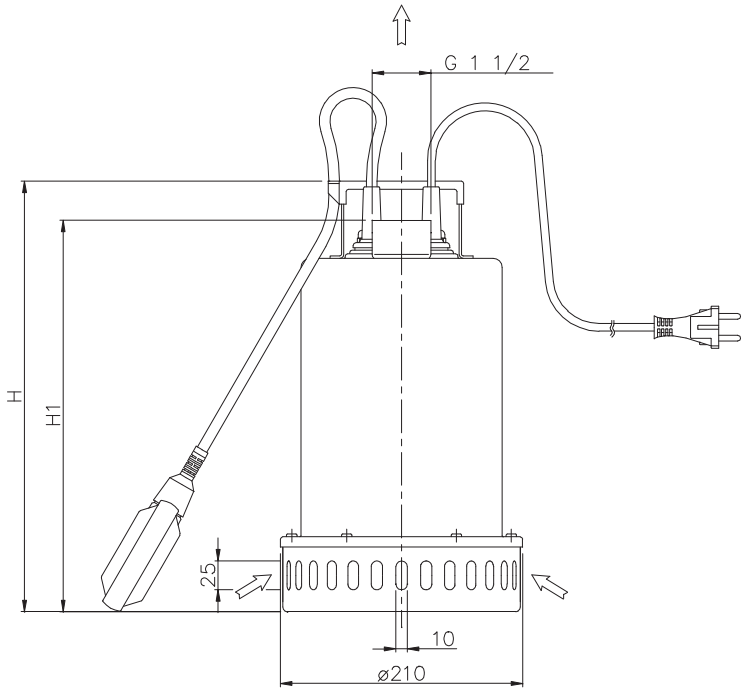
- Pump casing, impeller, strainer, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double mechanical seal with interposed oil chamber upper in carbon-caramic/NBR - lower in SiC/SiC/NBR

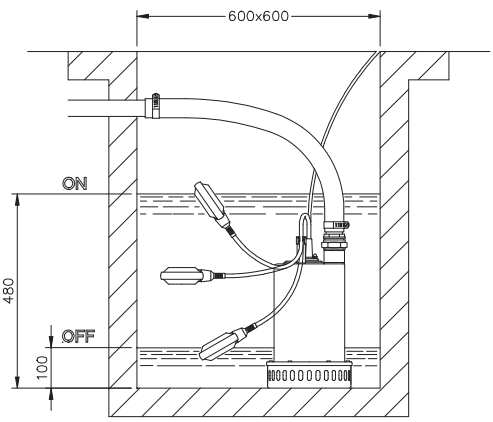
TECHNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V ± 10%, 50Hz - 3~400V ± 10%, 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1"1/2

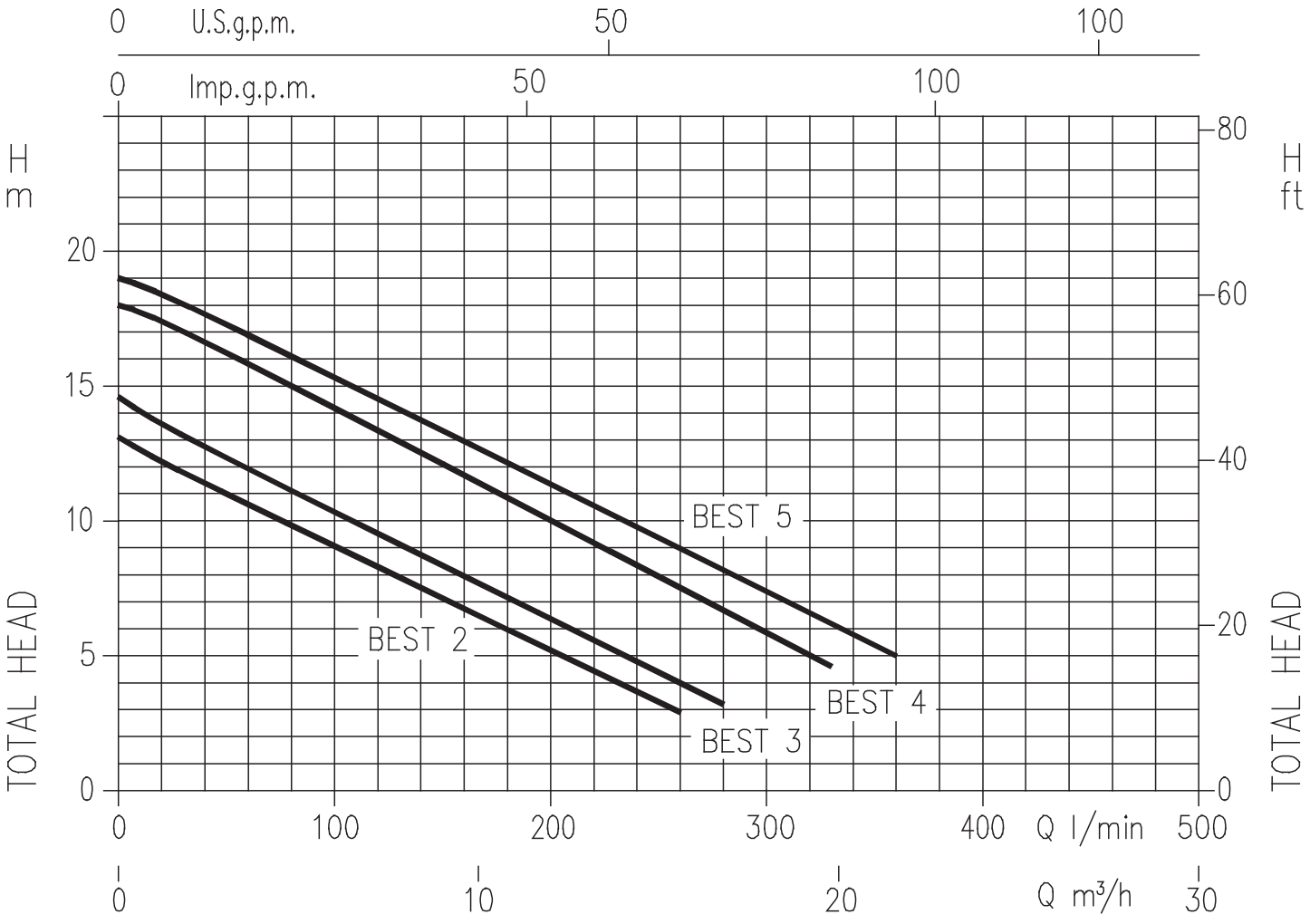
DIMENSIONAL TABLE

Pump type	(mm)		Weight
	H	H1	kg
BEST 2	352	315	12
BEST 3	352	315	12,7
BEST 4	377	340	13,8
BEST 5	377	340	13,5





PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)		Q=Capacity											
Single-phase	Three-phase		µF	Vc	1~	3~	l/min	20	40	80	120	160	170	200	260	280	300	330	360
							m³/h	1,2	2,4	4,8	7,2	9,6	10,2	12	15,6	16,8	18	19,8	21,6
							H=Total head												
BEST 2 M	BEST 2	0,55	16	450	4,4	2,0		12,2	11,4	9,8	8,3	6,7	6,3	5	2,9	-	-	-	-
BEST 3 M	BEST 3	0,74	20	450	5,6	2,4		13,6	12,7	11,1	9,5	7,9	7,6	6,4	4	3,2	-	-	-
BEST 4 M	BEST 4	1,1	30	450	7,3	3,0		17,4	16,6	15	13,4	11,7	11,3	10	7,5	6,7	5,9	4,6	-
-	BEST 5	1,5	-	-	-	3,3		18,4	17,7	16,1	14,5	12,8	12,5	11,4	9	8	7,4	6	5

Submersible dirty water pump made of stainless steel AISI 304, double mechanical seals ensure long life and reliability. Suitable for dirty water systems with some solids. Applications include wastewater treatment plants and final effluent pumping, irrigation, and water displays. Options include with or without float switch. Solids handling up to 35 mm.

SPECIFICATIONS

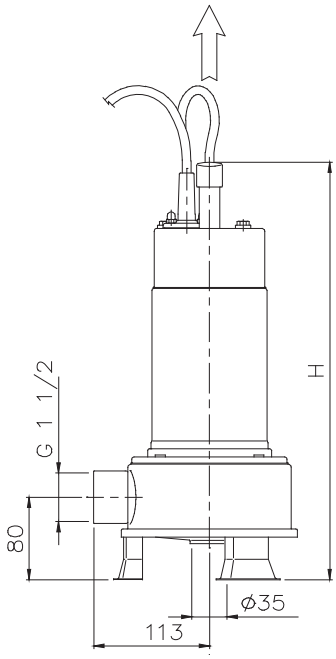
- Maximum liquid temperature: 50°C
- Maximum immersion: 10 m
- Maximum passage of solids: 35 mm

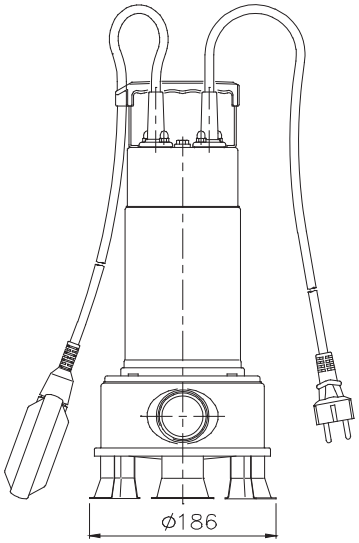
MATERIALS

- Pump casing, impeller, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double mechanical seal with interposed oil chamber: upper in carbon/ceramic/NBR, lower in SiC/SiC/NBR

TECHNICAL DATA

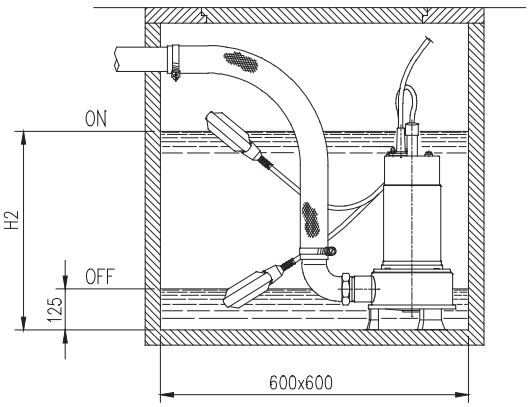
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V ± 10%, 50Hz - 3~400V ± 10%, 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Discharge 1"1/2



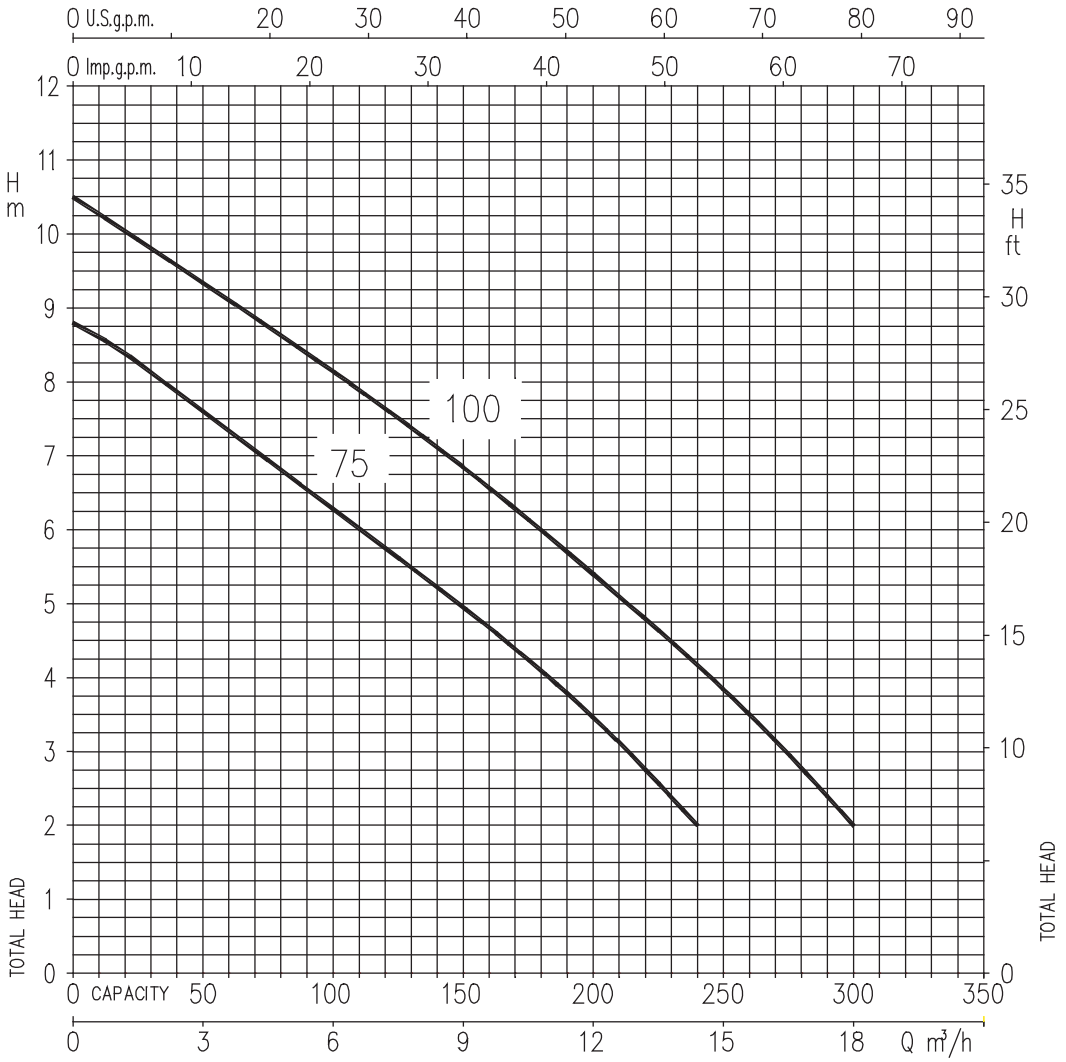


DIMENSIONAL TABLE

Pump type	(mm)		Weight
	H	H2	(kg)
RIGHT 75	405	480	10
RIGHT 100	430	500	11,5



PERFORMANCE CURVES *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current(A)			Q=Capacity						
Single-phase	Three-phase		µF	Vc	1~	3~	l/min	40	80	120	160	200	240	300
							m³/h	2	4,8	7,2	9,6	12	14,4	18
								H=Total head						
RIGHT 75 M	RIGHT 75	0,55	20	450	4,8	2,1		7,8	6,8	5,7	4,7	3,4	2	-
RIGHT 100 M	RIGHT 100	0,75	31,5	450	5,7	2,6		9,5	8,6	7,6	6,6	5,4	4,2	2

DW - DW VOX

SUBMERSIBLE PUMPS for dirty water

Submersible sewage pump made of stainless steel AISI 304, with double mechanical seals ensure long life and reliability. Suitable for sewage and dirty water systems with solids. Applications include remote sewage stations for housing developments, pubs, hotels and restaurants, and water displays. Options include with or without float switch. Solids handling up to 50 mm.

SPECIFICATIONS

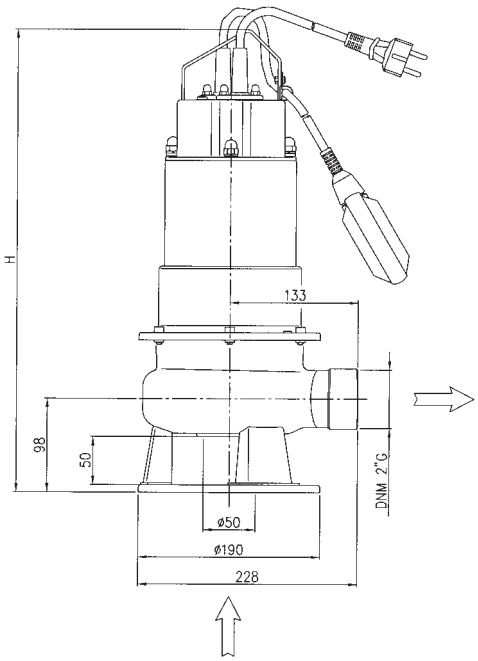
- Maximum liquid temperature: 40°C
- Maximum immersion: 10 m
- Maximum passage of solids: 50 mm

MATERIALS

- Pump casing, impeller, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double mechanical seal with interposed oil chamber: upper in carbon/ceramic/NBR, lower in SiC/SiC/NBR

TECHNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V ±10% 50Hz - 3~400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Suction 50 - Discharge 2”
- Discharge 50 PN10 (F version)

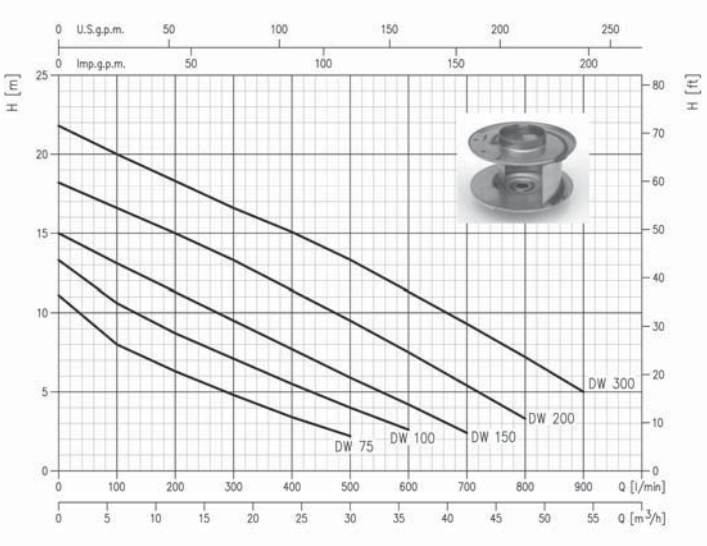


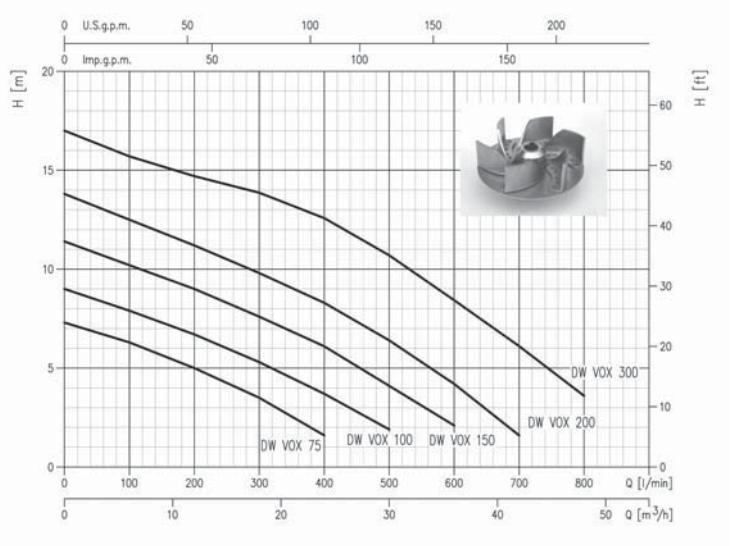
DIMENSIONAL TABLE

Pump type	Dimensions (mm) H	Weight (kg)
DW 75	485	16
DW 100	515	18
DW 150	515	20
DW 200	-	-
DW 300	-	-

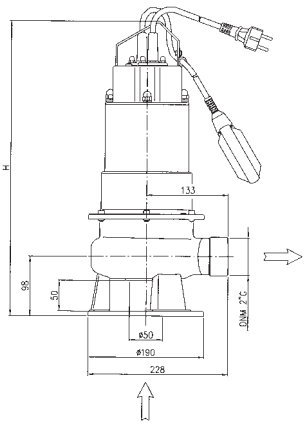
Pump type	Dimensions (mm) H	Weight (kg)
DW VOX 75	485	16
DW VOX 100	485	18
DW VOX 150	515	20
DW VOX 200	515	20
DW VOX 300	545	26

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*

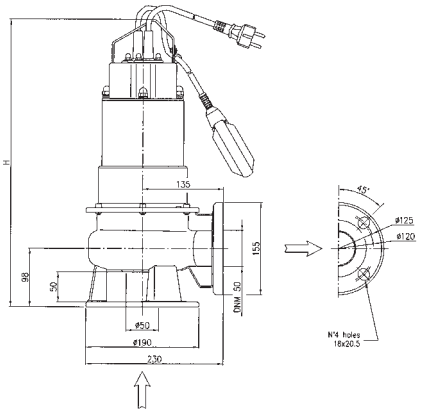




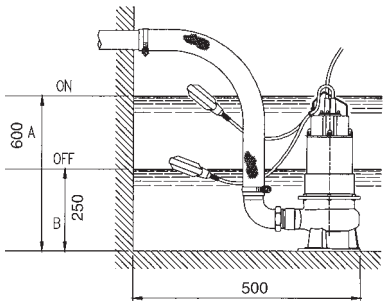
DW
DW VOX



DWF
DW VOX F



DW
DW VOX



PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)		Q=Capacity									
Single-phase	Three-phase		µF	Vc	1~	3~	l/min 0	100	200	300	400	500	600	700	800	900
							m³/h 0	6	12	18	24	30	36	42	48	54
							H=Total head									
DW 75 M	DW 75	0,55	20	450	3,9	1,5	11,1	8	6,3	4,8	3,4	2,2	-	-	-	-
DW 100 M	DW 100	0,75	25	450	5,9	2,1	13,3	10,6	8,7	7,1	5,5	4	2,6	-	-	-
DW 150 M	DW 150	1,1	31,5	450	7,3	2,8	15,0	13,1	11,3	9,5	7,7	5,9	4,2	2,4	-	-
-	DW 200	1,5	-	-	-	3,6	18,2	16,6	15	13,3	11,4	9,5	7,5	5,4	3,3	-
-	DW 300	2,2	-	-	-	5,0	21,8	20	18,3	16,6	15,1	13,3	11,3	9,3	7,2	5
DW VOX 75 M	DW VOX 75	0,55	20	450	3,9	1,4	7,3	6,3	5	3,5	1,6	-	-	-	-	-
DW VOX 100 M	DW VOX 100	0,75	25	450	5,8	2,1	9,0	7,9	6,7	5,3	3,7	1,9	-	-	-	-
DW VOX 150 M	DW VOX 150	1,1	31,5	450	7,3	2,8	11,4	10,2	9	7,6	6,1	4,1	2,1	-	-	-
-	DW VOX 200	1,5	-	-	-	3,3	13,8	12,5	11,2	9,8	8,3	6,4	4,2	1,6	-	-
-	DW VOX 300	2,2	-	-	-	4,4	17,0	15,7	14,7	13,9	12,6	10,7	8,4	6,1	3,6	-

Submersible sewage pumps made of cast iron, suitable for sewage and dirty water systems with solids, waste water, removal of treated liquid waste and tank emptying and general dirty water duties. (Kit discharge connector on request)

SPECIFICATIONS

- Maximum water temperature: 40°C
- Maximum passage of solids: 76 mm

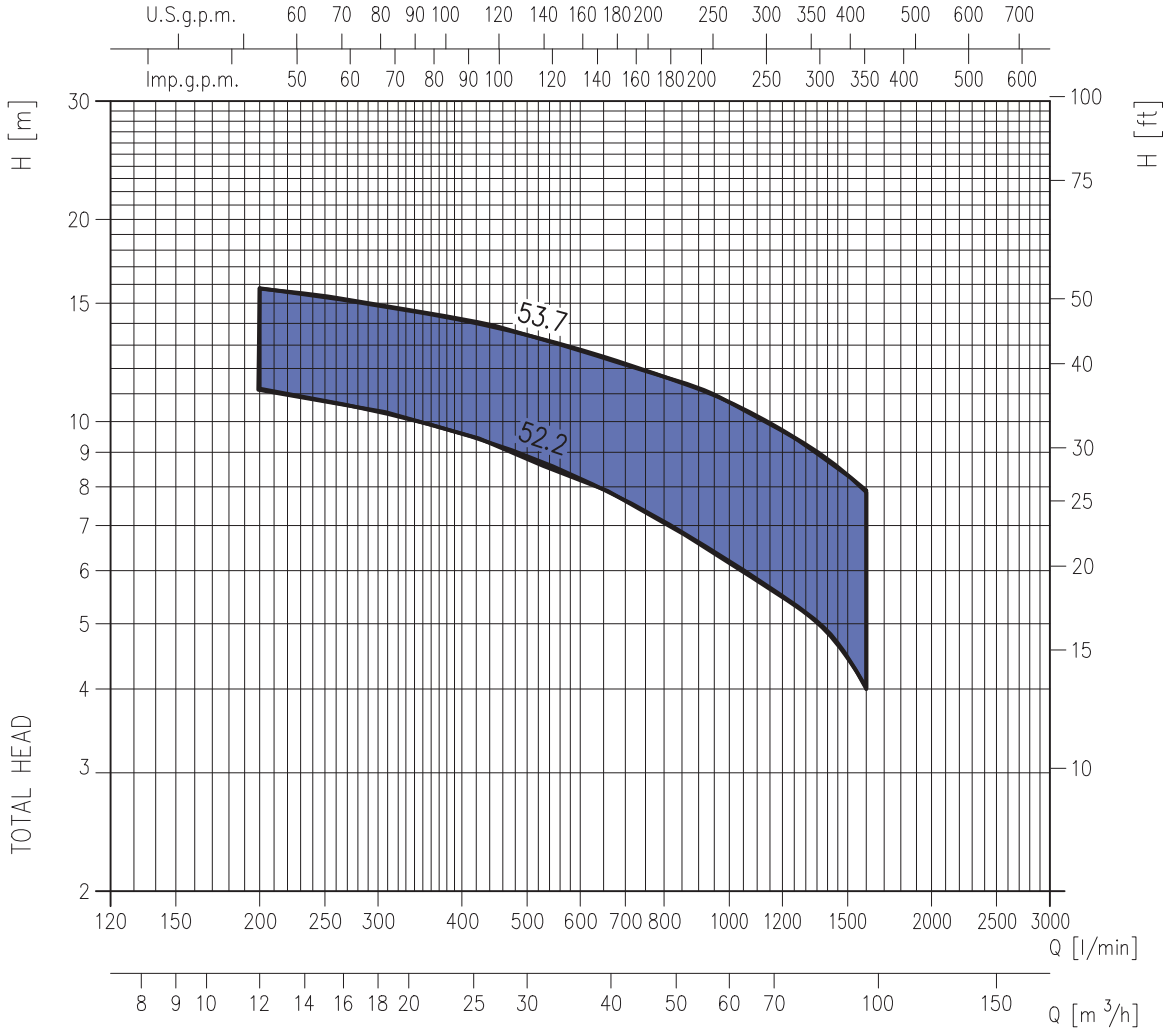
MATERIALS

- Pump casing, impeller and elbow in cast iron
- Shaft in AISI 403
- Mechanical seal:
  - SiC/SiC/NBR (pump side)
  - Carbon/Ceramic/NBR (motor side)
- Fittings (on request): quick discharge connection

TECHNICAL DATA

- 4 poles motor
- Insulation class F
- Protection degree IP68
- 3~ 380/400/415V 50 Hz
- DN80, DN100, DN150 flanges
- Power up to 22 kW

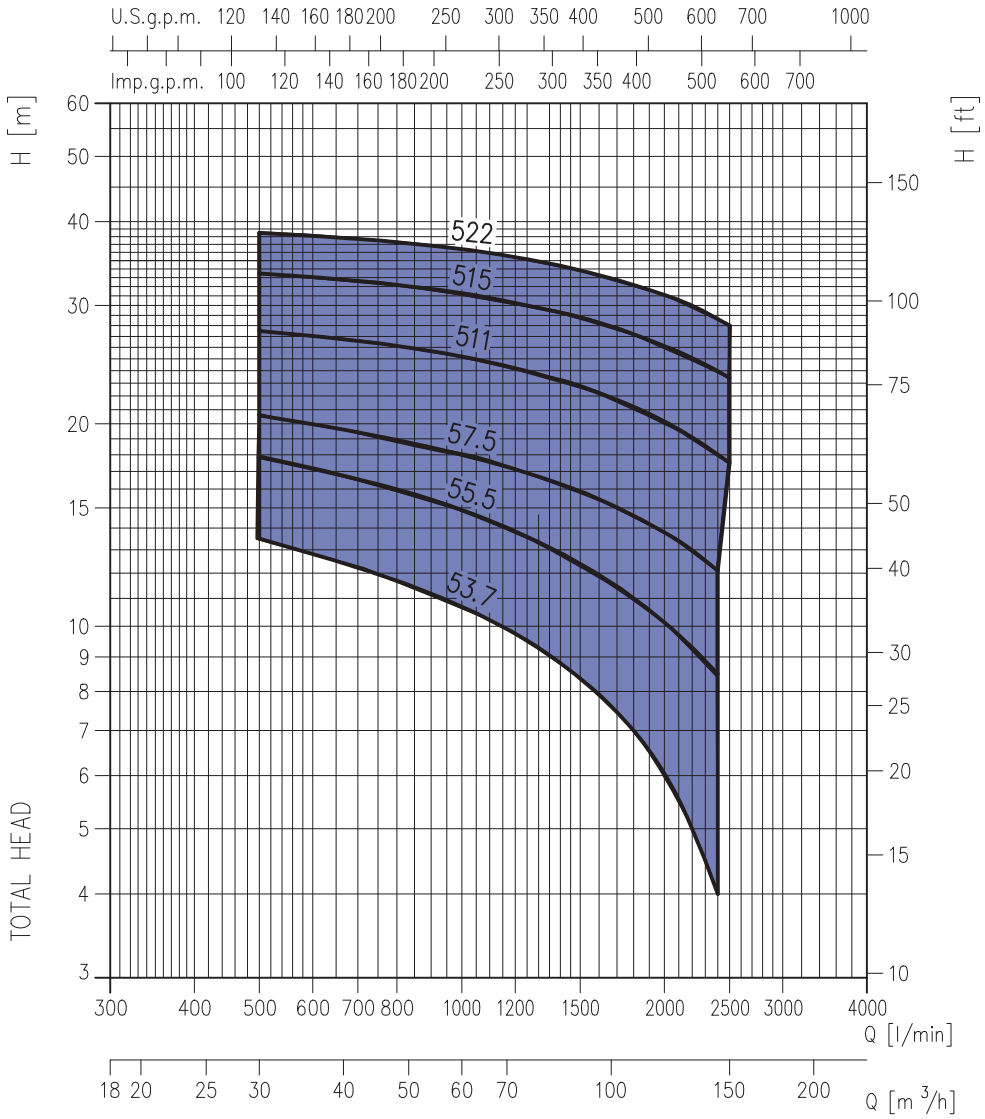
PERFORMANCE CHART 80DML series *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type DML	kW	HP	Q=Capacity									
			l/min	0	200	400	600	800	1000	1200	1400	1600
			m³/h	0	12	24	36	48	60	72	84	96
			H=total head									
80DML52.2	2,2	3		13,1	11,2	9,6	8,2	7,1	6,2	5,5	4,9	4
80DML53.7	3,7	5		17,9	15,8	14,2	12,8	11,7	10,7	9,7	8,8	7,9

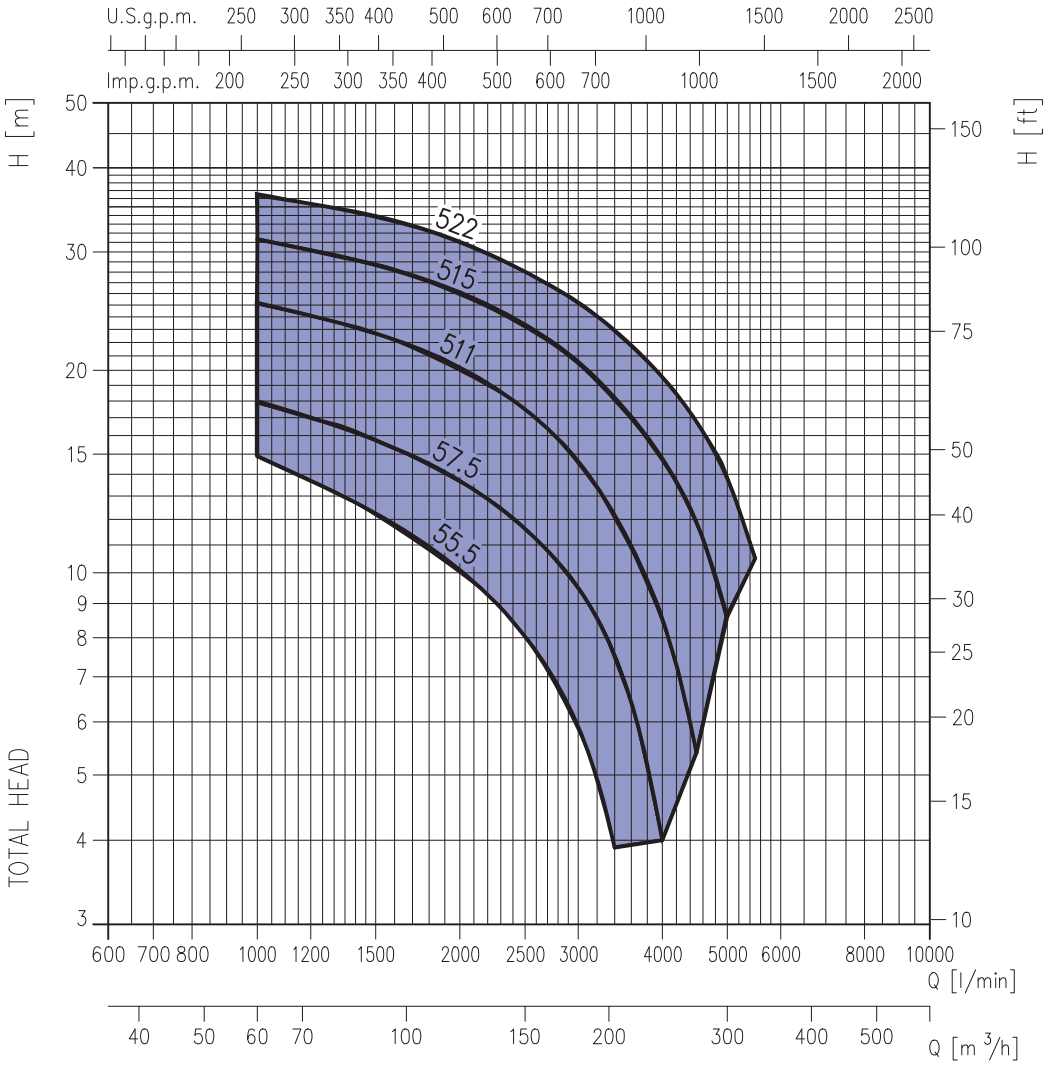
PERFORMANCE CHART 100DML series *(according to ISO 9906 Annex A)*



PERFORMANCE TABLE

Pump type DML	kW	HP	Q=Capacity l/min	0	500	1000	1300	1600	1900	2200	2400	2500
			m³/h	0	30	60	78	96	114	132	144	150
			H=total head									
100DML53.7	3,7	5		17,9	13,5	10,7	9,3	7,9	6,5	5	4	–
100DML55.5	5,5	7,5		22	17,9	14,9	13,4	11,9	10,6	9,3	8,5	–
100DML57.5	7.5	10		25,3	20,6	18	16,7	15,5	14,2	13	12,1	–
100DML511	11	15		30,3	27,5	25,2	23,7	22,2	20,7	19,1	18	17,5
100DML515	15	20		35	33,5	31,3	29,8	28,3	26,7	25,1	24	23,4
100DML522	22	30		40	38,5	36,4	34,9	33,3	31,7	30	28,7	28

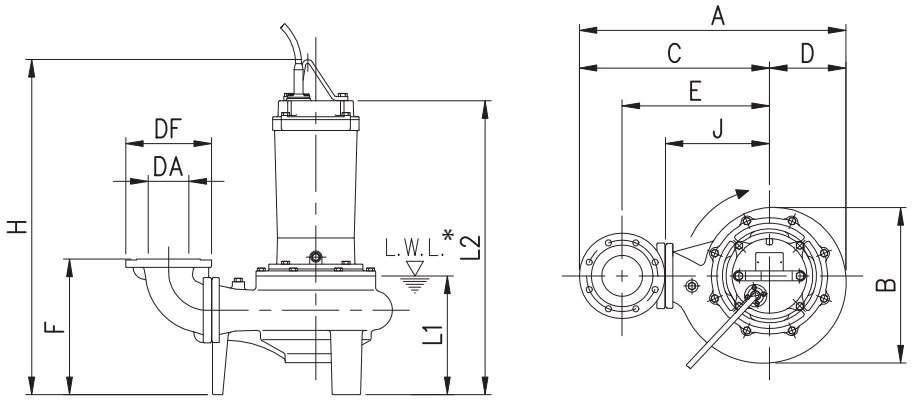
PERFORMANCE CHART 150DML series *(according to ISO 9906 Annex A)*



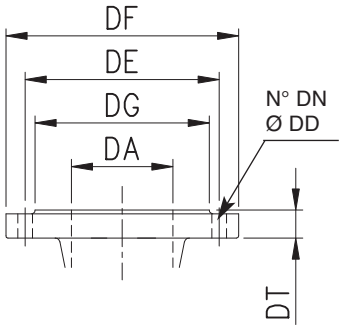
PERFORMANCE TABLE

Pump type DML	kW	HP	Q=Capacity l/min	0	1000	2000	2500	3000	3400	4000	4500	5000	5500
			m³/h	0	60	120	150	180	204	240	270	300	330
			H=Total head										
150DML55.5	5,5	7,5	22	14,9	10,1	8	5,9	3,9	–	–	–	–	
150DML57.5	7,5	10	25,3	18	13,7	11,6	9,5	7,5	4	–	–	–	
150DML511	11	15	30,3	25,2	20,2	17,5	14,7	12,2	8,6	5,4	–	–	
150DML515	15	20	35	31,3	26,1	23,4	20,6	18,2	14,8	11,9	8,6	–	
150DML522	22	30	40	36,4	31,1	28	25,2	22,9	19,5	16,8	13,8	10,5	

DIMENSIONS



* LWL = Low water level



FLANGES

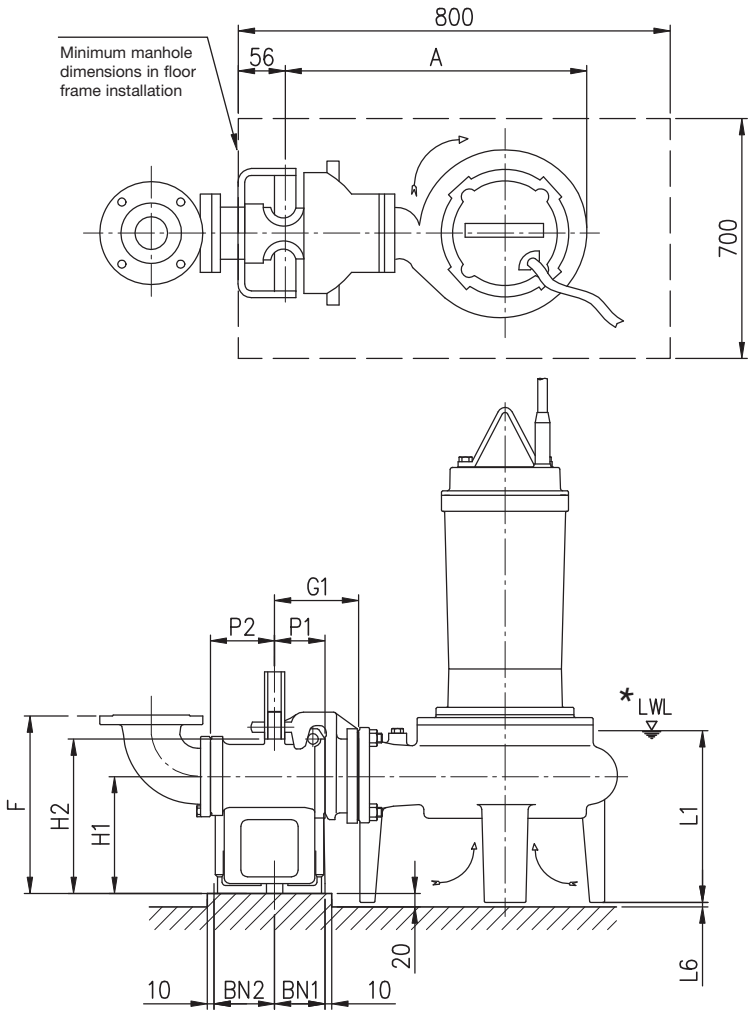
DA	DG	DE	DF	DT	N° DN	DD
80	138	160	200	22	8	18
100	158	180	220	24	8	18
150	212	240	285	26	8	22

DIMENSIONAL TABLE

Pump type	Dimensions												Weight
DML	DA	kW	A	B	C	D	E	F	H	J	L1	L2	(kg)
80DML52.5	80	2,2	542	320	385	157	285	308	668	210	279	547	80
80DML53.7	80	3,7	542	320	385	157	285	308	727	210	279	627	87
100DML53.7	100	3,7	582	320	425	157	315	313	727	210	279	627	89
100DML55.5	100	5,5	658	381	470	188	360	339	824	255	310	724	121
100DML57.5	100	7,5	658	381	470	188	360	339	824	255	310	724	125
100DML511	100	11	751	455	530	221	420	355	938	315	329	778	160
100DML515	100	15	751	455	530	221	420	355	938	315	329	778	166
100DML522	100	22	795	497	550	245	440	358	1021	335	342	841	226
150DML55.5	150	5,5	715,5	381	527,5	188	385	369	824	255	310	724	127
150DML57.5	150	7,5	715,5	381	527,5	188	385	369	824	255	310	724	132
150DML511	150	11	808,5	455	587,5	221	445	385	938	315	329	778	166
150DML515	150	15	808,5	455	587,5	221	445	385	938	315	329	778	172
150DML522	150	22	852,5	497	607,5	245	465	388	1021	335	342	841	232

KIT DISCHARGE CONNECTOR DIMENSIONS LM80

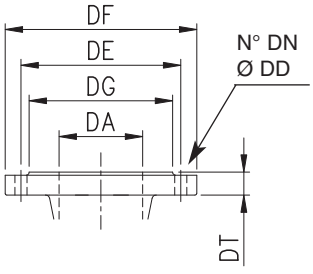
80 (100) DML 52.2, 53.7



* *LWL = Low water level*

FLANGES

DA	DG	DE	DF	DT	N° DN	DD
80	138	160	200	22	8	18
100	158	180	220	24	8	18

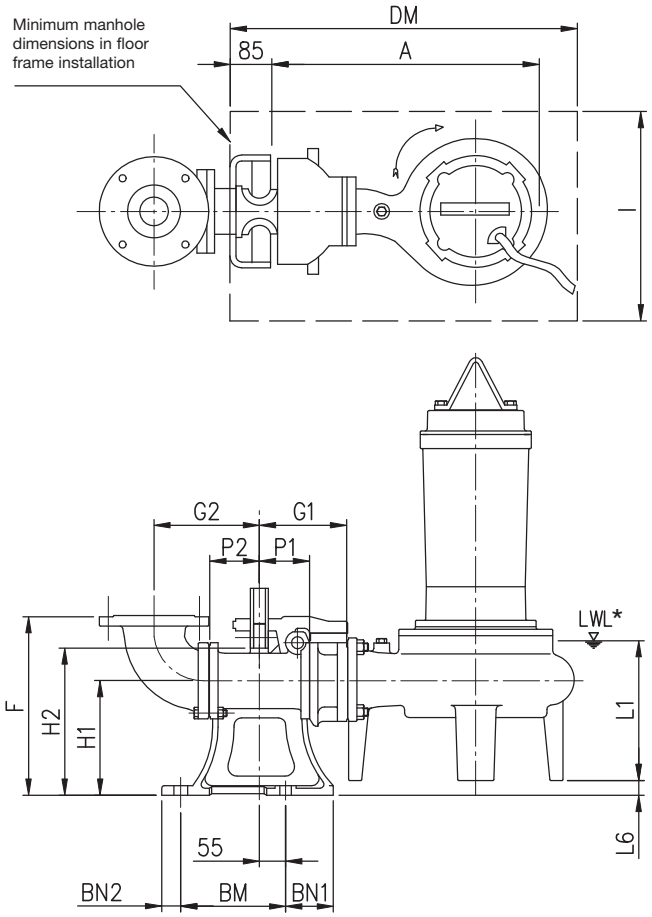


DIMENSIONAL TABLE

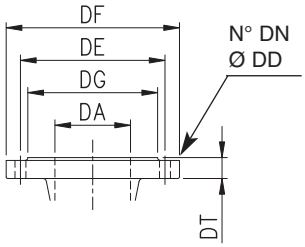
Pump type DML	Dimensions														Kit discharge connector	Weight (kg)
	A	P1	P2	G1	G2	F	H1	H2	L1	L6	BN1	BN2	D1	E1		
80DML52.2	492	75	90	125	165	295	175	230	279	7	75	90	15	155	LM80	17
80DML53.7	492	75	90	125	165	295	175	230	279	7	75	90	15	155	LM80	17
100DML53.7	492	75	90	125	195	300	175	230	279	7	75	90	15	155	LM80	17

KIT DISCHARGE CONNECTOR DIMENSIONS LL100

100 (150) DML



* *LWL = Low water level*



FLANGES

DA	DG	DE	DF	DT	N° DN	DD
100	158	180	220	24	8	18
150	212	240	285	26	8	18

DIMENSIONAL TABLE

Pump type DML	Dimensions																	Kit discharge connector	Weight (kg)
	A	P1	P2	G1	G2	F	H1	H2	L1	L6	BN1	BN2	BM	DM	I	D1	E1		
100DML55.5	628	105	105	185	210	370	240	265	310	31	100	40	220	800	700	19	175	LL100	46
100DML57.5	628	105	105	185	210	370	240	265	310	31	100	40	220	800	700	19	175	LL100	46
100DML511	721	105	105	185	210	370	240	265	329	15	100	40	220	1000	700	19	175	LL100	46
100DML515	721	105	105	185	210	370	240	265	329	15	100	40	220	1000	700	19	175	LL100	46
100DML522	765	105	105	185	210	370	240	265	342	12	100	40	220	1000	700	19	175	LL100	46
150DML55.5	628	105	105	185	235	400	240	265	310	31	100	40	220	800	700	19	175	LL100	46
150DML57.5	628	105	105	185	235	400	240	265	310	31	100	40	220	800	700	19	175	LL100	46
150DML511	721	105	105	185	235	400	240	265	329	15	100	40	220	1000	700	19	175	LL100	46
150DML515	721	105	105	185	235	400	240	265	329	15	100	40	220	1000	700	19	175	LL100	46
150DML522	765	105	105	185	235	400	240	265	342	12	100	40	220	1000	700	19	175	LL100	46

In-line centrifugal pumps made of stainless steel AISI 304. Applications include chilled water, air-conditioning systems and heating systems for secondary hot water and general low-pressure applications in industry. Its light construction means installation can be achieved with 1 person where conventionally heavy cast iron & bronze pumps require additional personnel and lifting equipment.

SPECIFICATIONS

- Maximum positive suction pressure:
  2 bar for all single-phase and for LPS 25 three-phase,
  4 bar for LPS 32-40-50 three-phase
- Maximum liquid temperature: 100°C

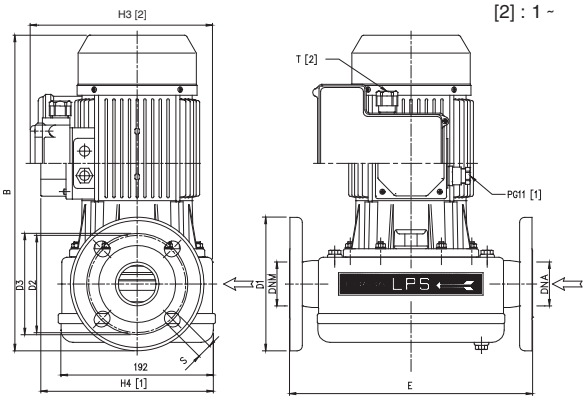
MATERIALS

- Pump casing, impeller and casing cover in AISI 304
- Shaft in AISI 303
- Bracket and motor casing in alluminium
- Mechanical seal in carbon/ceramic/NBR

TECNICAL DATA

- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V ± 10% 50Hz - 3~230/400V ± 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Flange: PN10

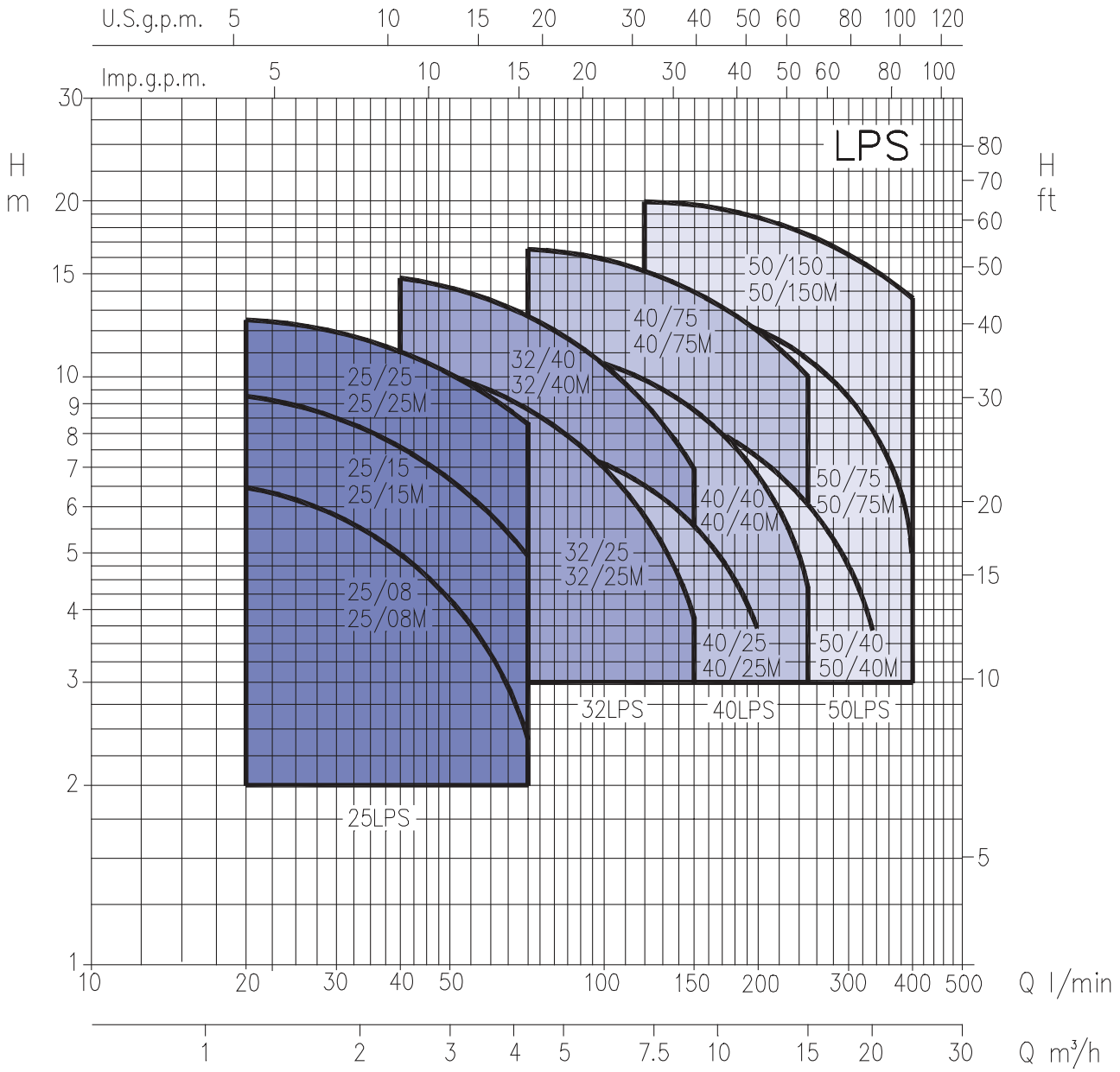
[1] : 3 ~
[2] : 1 ~



DIMENSIONAL TABLE

Pump type	Dimension (mm)											Weight (kg)	
	E	B	H3	H4	T	DNA	DNM	D1	D2	D3	S		
					1~							1~	3~
LPS 25/08	300	320,5	181	171	PG11	25	25	115	85	85	14	12,8	12,8
LPS 25/15	300	320,5	181	171	PG11	25	25	115	85	85	14	12,8	12,8
LPS 25/25	300	320,5	181	171	PG11	25	25	115	85	85	14	12,9	12,9
LPS 32/25	305	340	181	171	PG11	32	32	140	100	100	18	14,6	14,6
LPS 32/40	305	340	181	171	PG11	32	32	140	100	100	18	14,6	14,6
LPS 40/25	305	345	181	171	PG11	40	40	150	105	110	18	13,0	12,5
LPS 40/40	305	345	181	171	PG11	40	40	150	105	110	18	14,0	13,5
LPS 40/75	305	345	181	171	PG11	40	40	150	105	110	18	13,0	12,5
LPS 50/40	310	357,5	181	171	PG11	50	50	165	120	125	18	14,5	14
LPS 50/75	310	357,5	181	171	PG11	50	50	165	120	125	18	15,0	14,5
LPS 50/150	310	389,5	213	194	PG13,5	50	50	165	120	125	18	18,5	18

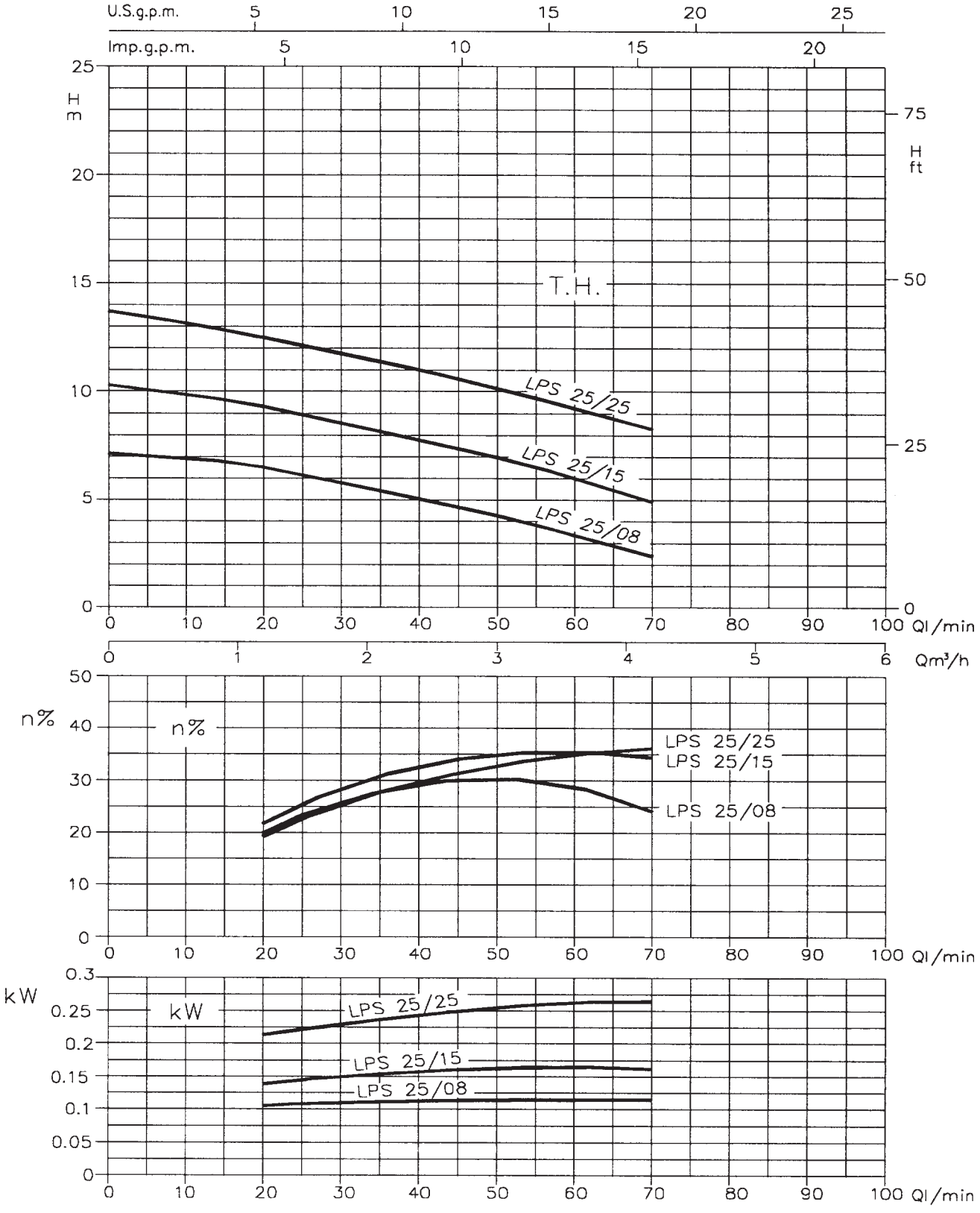
PERFORMANCE CHART *(according to ISO 9906 Annex A)*



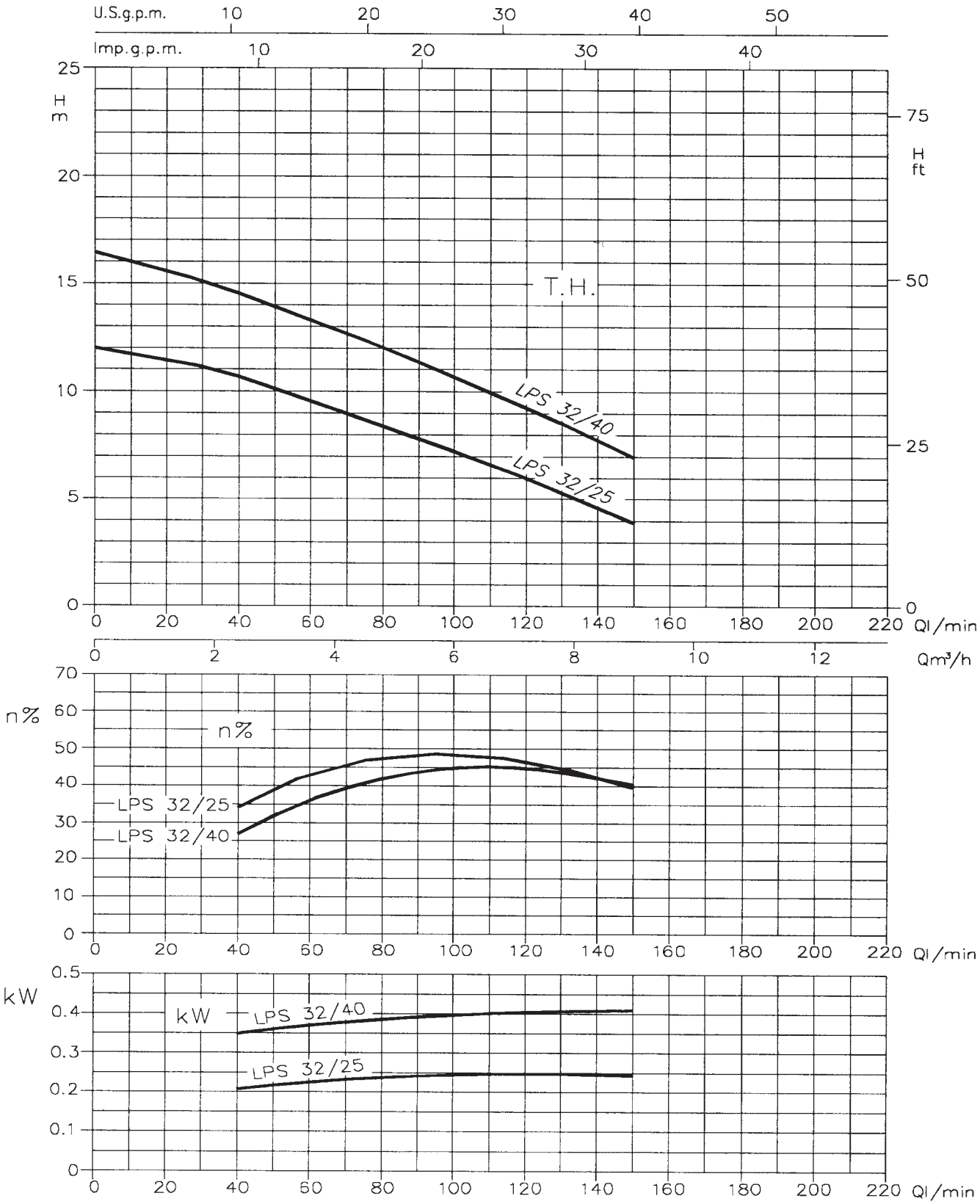
PERFORMANCE TABLE

Pump type Single-phase 230V 50Hz	Pump type Three-phase 230/400V 50Hz	kW	Capacitor µF	Capacitor Vc	Absorbed Current (A) 1~	Absorbed Current (A) 3~ 230V	Absorbed Current (A) 3~ 400V	l/min	Q=Capacity 20	40	70	100	120	150	200	250	320	400
								m³/h	0	2,4	4,2	6	7,2	9	12	15	19,2	24
									H=Total head									
LPS 25/08 M	LPS 25/08	0,08	12,5	450	1,51	1,7	1,01		6,5	5	2,4	-	-	-	-	-	-	-
LPS 25/15 M	LPS 25/15	0,15	12,5	450	1,67	1,8	1,03		9,3	7,8	4,9	-	-	-	-	-	-	-
LPS 25/25 M	LPS 25/25	0,25	12,5	450	2,04	1,9	1,11		12,5	11,1	8,4	-	-	-	-	-	-	-
LPS 32/25 M	LPS 32/25	0,25	12,5	450	2,0	1,8	1,03		-	10,7	9,1	7,2	5,9	3,9	-	-	-	-
LPS 32/40 M	LPS 32/40	0,4	12,5	450	2,74	2,2	1,25		-	14,5	12,7	10,6	9,2	7	-	-	-	-
LPS 40/25 M	LPS 40/25	0,25	12,5	450	1,98	1,9	1,09		-	-	7,8	7,1	6,6	5,6	3,7	-	-	-
LPS 40/40 M	LPS 40/40	0,4	12,5	450	2,75	2,2	1,25		-	-	11,3	10,4	9,9	8,7	6,9	4,4	-	-
LPS 40/75 M	LPS 40/75	0,75	25	450	4,86	4,0	2,29		-	-	16,6	16	15,2	14,1	12,3	10,1	-	-
LPS 50/40 M	LPS 50/40	0,4	12,5	450	2,74	2,2	1,25		-	-	-	-	9,1	8,8	7,4	5,9	3,5	-
LPS 50/75 M	LPS 50/75	0,75	25	450	4,9	3,9	2,26		-	-	-	-	13,8	13,3	12,3	10,7	8,2	5
LPS 50/150 M	LPS 50/150	1,5	35	450	8,07	5,7	3,31		-	-	-	-	19,8	19,3	18,7	17,8	16	13,7

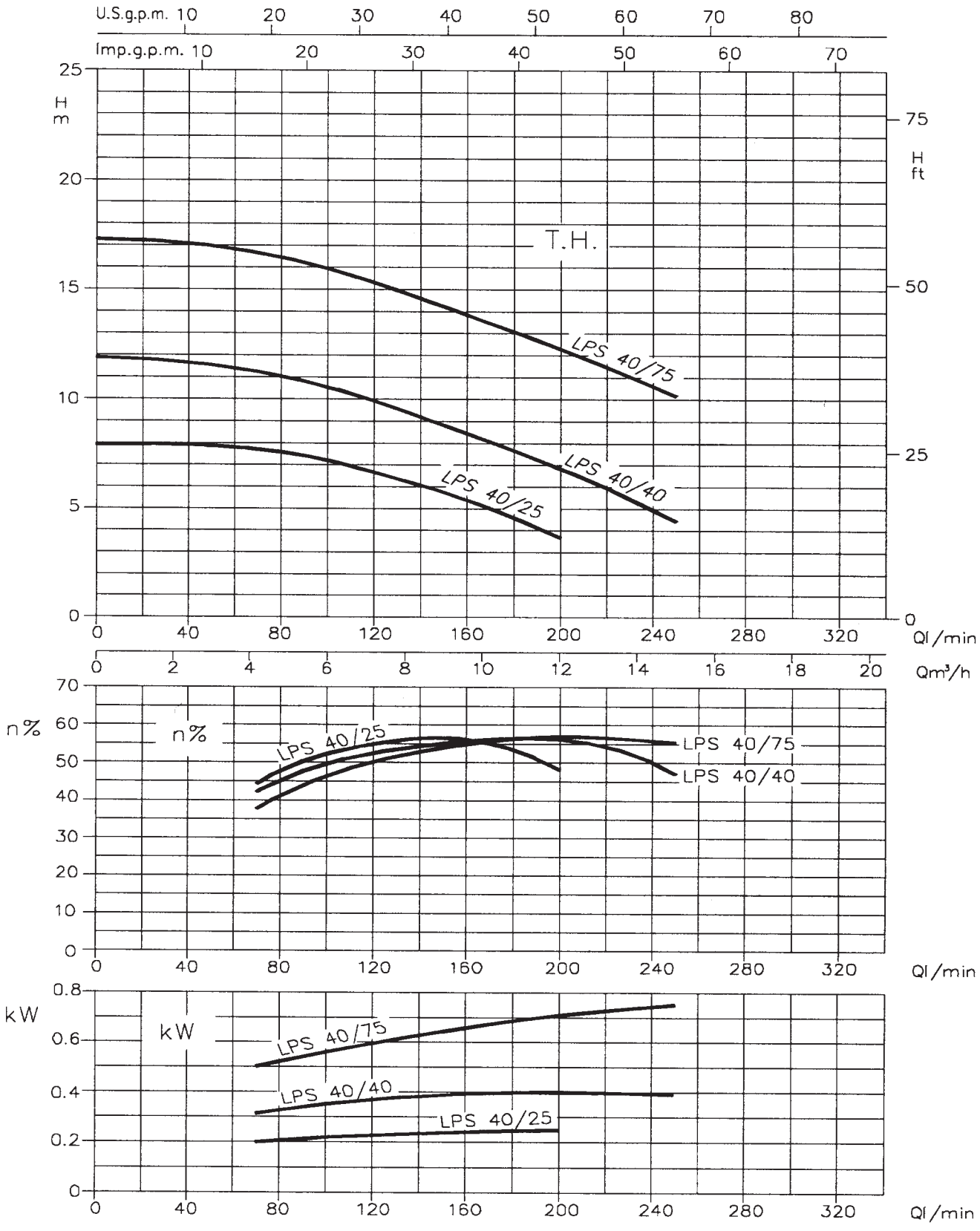
PERFORMANCE CURVES LPS 25 series *(according to ISO 9906 Annex A)*



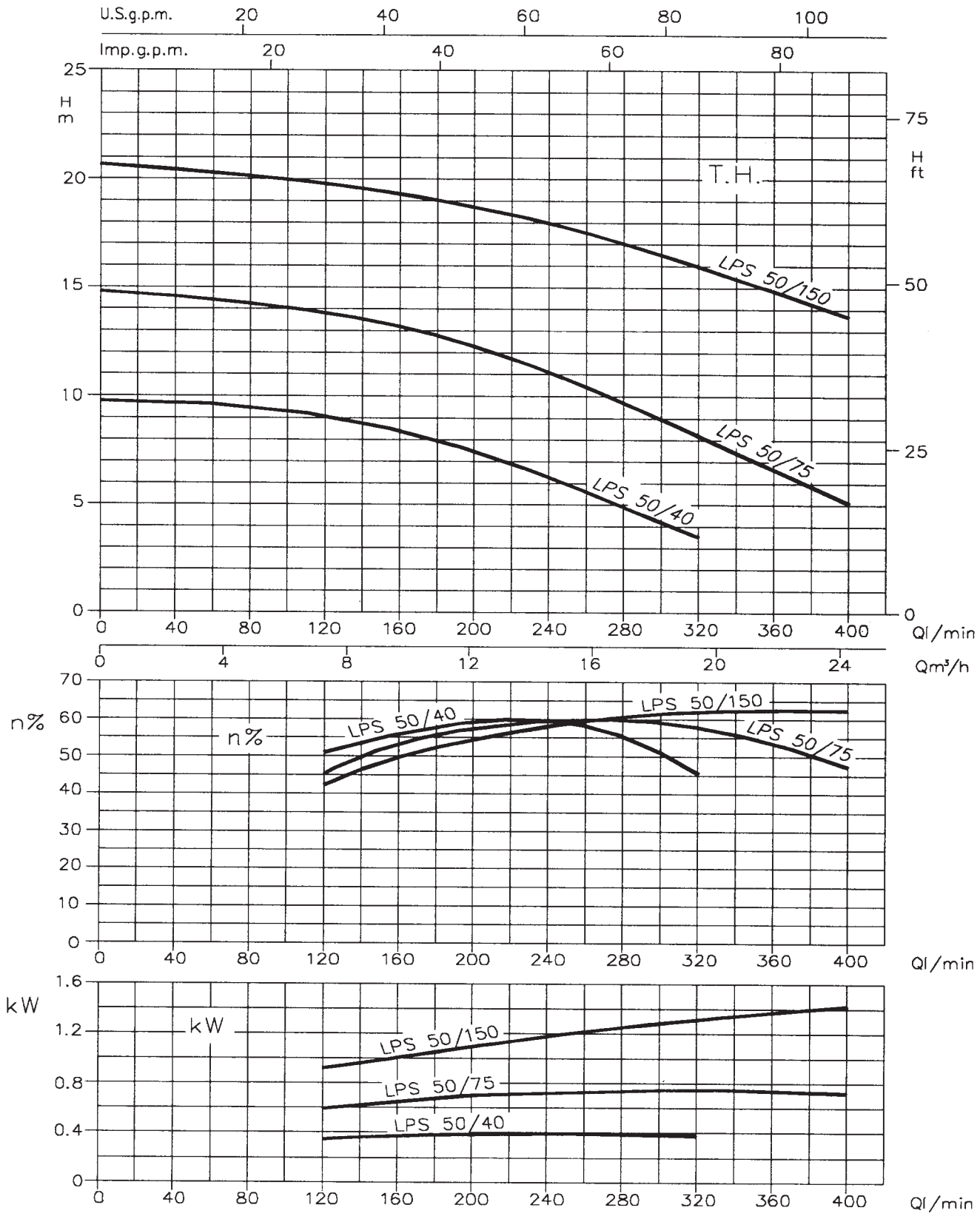
PERFORMANCE CURVES LPS 32 series *(according to ISO 9906 Annex A)*



PERFORMANCE CURVES LPS 40 series *(according to ISO 9906 Annex A)*



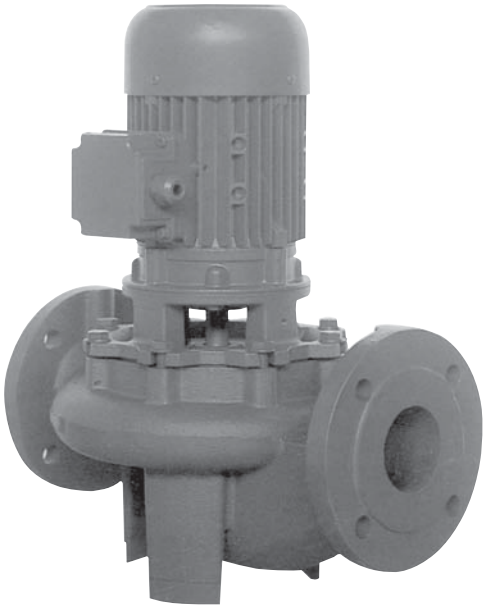
PERFORMANCE CURVES LPS 50 series *(according to ISO 9906 Annex A)*

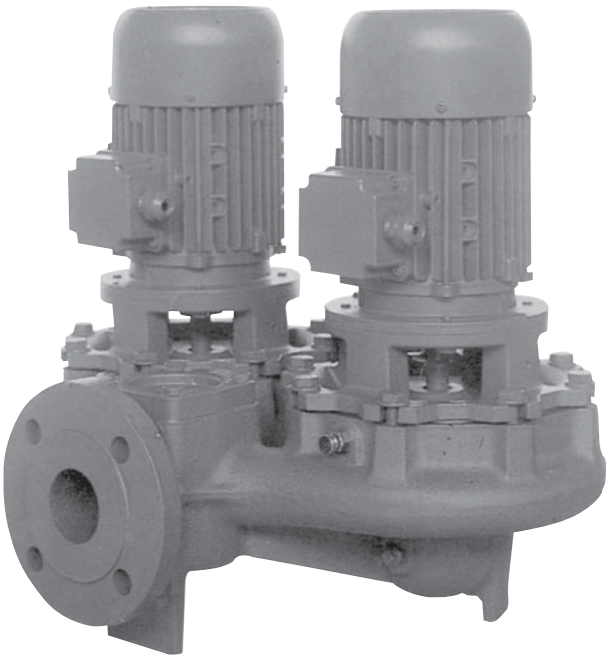


LPC-LPC4, LPCD-LPCD4

IN-LINE CENTRIFUGAL PUMPS in cast iron

In-line centrifugal pumps made of cast iron. Applications include heating and air conditioning systems, water lifting from wells, rivers and lakes, irrigation system on ground surface or by sprinkling, pressure systems, industrial services, domestic hot water supply systems.





SPECIFICATIONS

- Maximum positive suction pressure:
  10 bar for all models
  6 bar for LPC 40-100 models
- Maximum liquid temperature: 130°C

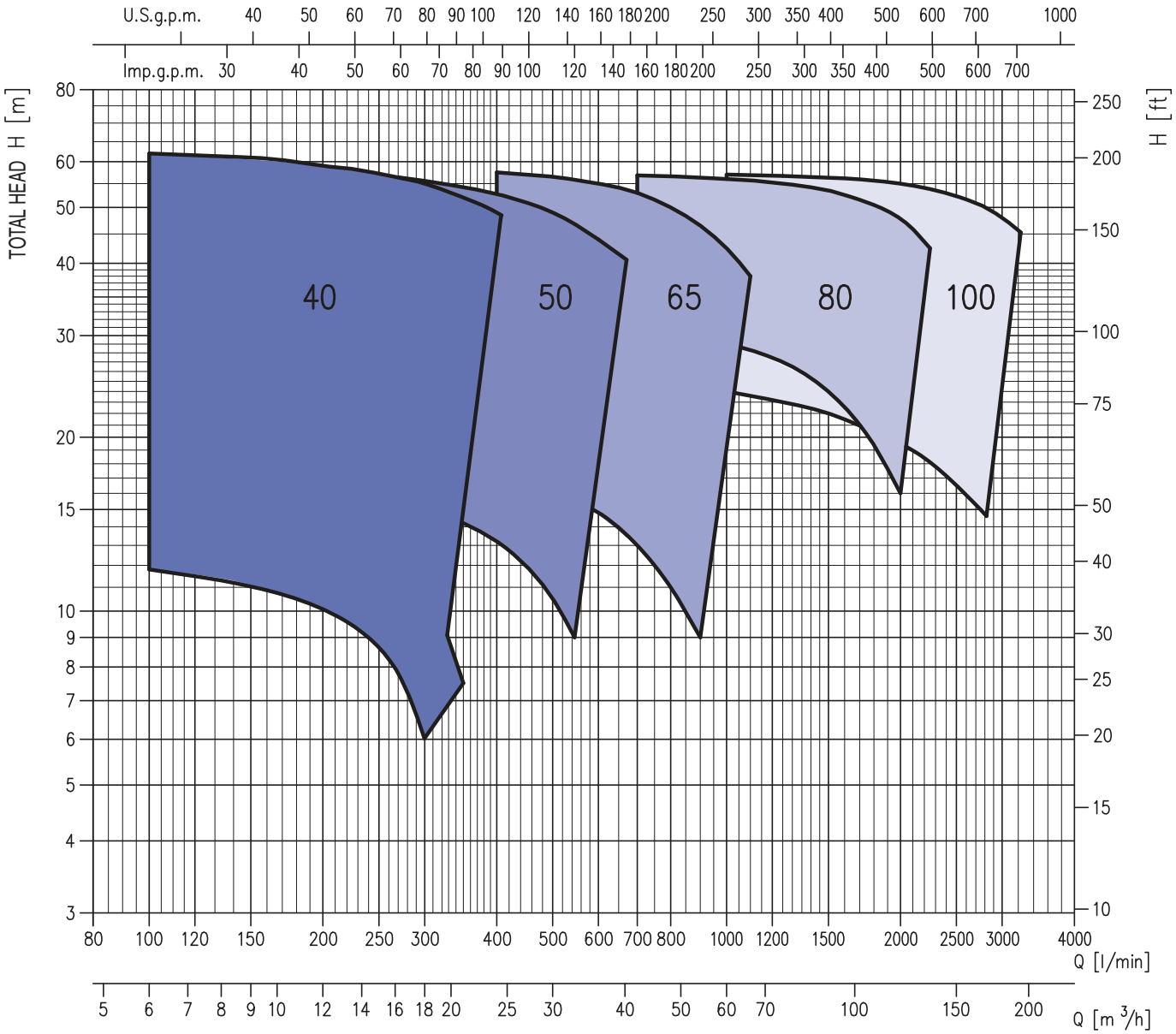
MATERIALS

- Pump casing, impeller and casing cover in cast iron
- Shaft in AISI 420
- Mechanical seal in Carbon/SiC/EPDM
  (SiC/SiC/EPDM optional)

TECHNICAL DATA

- Asynchronous 2 and 4 poles motor
- Insulation Class F
- Protection Degree IP 55
- 3~ 230/400V ±10% 50 Hz up to 4 kW,
  400/690V ±10% 50 Hz 5.5 kW and above
- Thermal protection to be provided by the user for three-phase version
- PN10 Flanges

PERFORMANCE CHART LPC series — 2 POLES



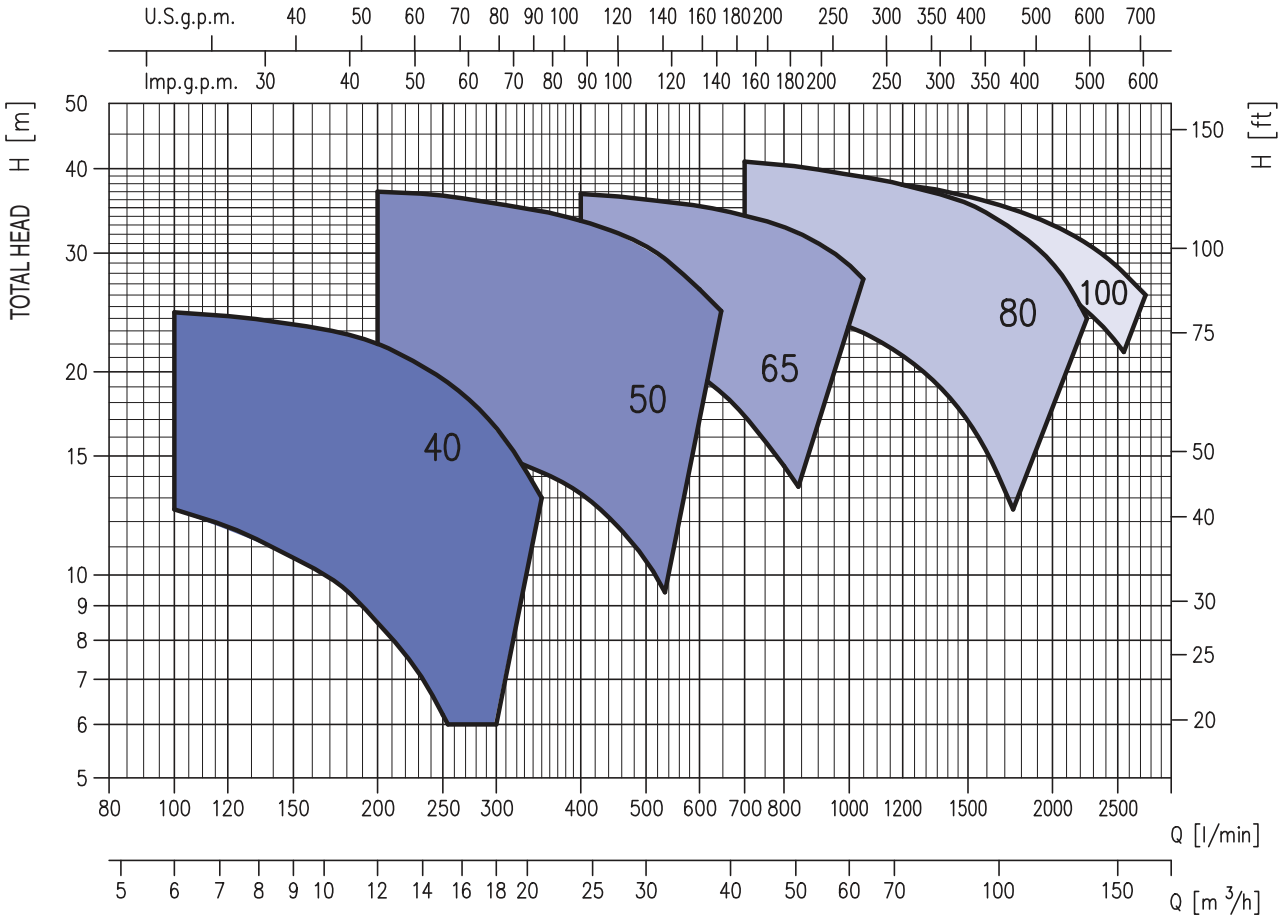
R.P.M. ≈ 2900 min^{-1}
Fluid test: *clean water* 20°C
Applicable standard: UNI EN ISO 9906 Annex A

PERFORMANCE TABLE LPC 40-50-65-80-100 series

2 POLES

Pump type	Motor		Q=Capacity																												
			m³/h	0	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36	42	48	54	60	66	75	90	105	120	135	150	165	180	210
			l/min	0	100	125	150	175	200	225	250	300	350	400	450	500	600	700	800	900	1000	1100	1250	1500	1750	2000	2250	2500	2750	3000	3500
	kW	HP	H=Total head																												
LPC 40-100/0,55	0,55	0,75	12,2	11,7	11,4	11	10,5	9,9	9,3	8,5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-100/0,75	0,75	1,0	14	13,5	13,3	13	12,5	12	11,4	10,7	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-125/0,75	0,75	1,0	16,9	15,3	14,5	13,7	12,8	11,5	10,4	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-125/1,1	1,1	1,5	21,5	20,5	19,7	19	18,1	17,1	15,9	14,5	11,2	7,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-125/1,5	1,5	2	25	24,5	24,1	23,5	22,9	22	20,8	19,5	16,5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-160/2,2	2,2	3	29	28,5	28	27,4	26,5	25,5	24,4	23,1	20	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-160/3	3	4	34,5	33,5	33	32,5	31,8	31	30	29	26	22,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-160/4	4	5,5	38,5	38	37,5	36,8	36	35	33,8	32,6	29,9	26,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-200/4	4	5,5	47,5	47	46,5	46	45	44	43	42	39,2	36,1	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-200/5,5	5,5	7,5	55,5	55	54,5	54,1	53,6	53	52	51	48,4	45,8	42,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 40-200/6,3	6,3	8,5	62,5	62	61,5	61	60,2	59	58,3	57,2	55	52	49	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-125/1,5	1.5	2	16.8	-	-	-	-	16	15.7	15.5	15	14.2	13.2	11.9	10.5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-125/2,2	2.2	3	20	-	-	-	-	19.5	19.3	19.1	18.5	17.5	16.6	15.5	14.1	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-125/3	3	4	25	-	-	-	-	24.7	24.6	24.5	24.2	23.7	23	21.8	20.5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-160/3	3	4	31	-	-	-	-	30.5	30.2	29.9	29	27.8	26.5	24.9	23	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-160/4	4	5.5	38	-	-	-	-	37	36.8	36.5	35.5	34.6	33.5	32.2	30.7	26.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-200/5,5	5.5	7.5	46.8	-	-	-	-	46	45.7	45.2	44.2	42.9	41	39.2	37	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-200/6,3	6.3	8.5	51.7	-	-	-	-	51.2	51	50.8	50	48.7	47	45	42.6	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 50-200/7,5	7.5	10	58.5	-	-	-	-	57.5	57.2	56.8	55.6	54.2	52.8	51	49	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-125/2,2	2,2	3	18,5	-	-	-	-	-	-	-	-	17,5	17	16,5	16	14,8	13	11	9	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-125/3	3	4	22,5	-	-	-	-	-	-	-	-	-	21	20,6	20,1	19	17,6	16	14	12	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-125/4	4	5,5	26,3	-	-	-	-	-	-	-	-	-	25,5	25,2	24,8	24	22,9	21,5	19,6	17,5	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-160/5,5	5,5	7,5	33	-	-	-	-	-	-	-	-	-	32,3	32	31,5	30,8	29,5	28	25,8	23,5	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-160/7,5	7,5	10	37	-	-	-	-	-	-	-	-	-	36,7	36,4	36	35,2	34,1	32,8	31	28,8	26	-	-	-	-	-	-	-	-	-	-	-
LPC 65-200/10	10	13,6	52	-	-	-	-	-	-	-	-	-	51	50	49,2	48	45,5	43	39,7	36	31,5	-	-	-	-	-	-	-	-	-	-	-
LPC 65-200/12,5	12,5	17	58,5	-	-	-	-	-	-	-	-	-	57,5	57	56,5	55	53	50	46,5	42,5	38	-	-	-	-	-	-	-	-	-	-	-
LPC 80-160/10	10	13,6	31	-	-	-	-	-	-	-	-	-	-	-	-	-	30,5	30	29,5	29	28,3	27	24	20,2	16	-	-	-	-	-	-	-
LPC 80-160/12,5	12,5	17	37	-	-	-	-	-	-	-	-	-	-	-	-	-	36	35,5	35	34,5	34	32,8	30	27	23	19	-	-	-	-	-	-
LPC 80-160/15	15	20	42	-	-	-	-	-	-	-	-	-	-	-	-	-	41	40,5	39,9	39,2	38,6	37,5	35,5	32,5	29	24	-	-	-	-	-	-
LPC 80-200/15	15	20	44,2	-	-	-	-	-	-	-	-	-	-	-	-	-	44	43,8	43,4	43	42,5	41,5	39	35,5	31,5	-	-	-	-	-	-	-
LPC 80-200/18,5	18,5	25	51	-	-	-	-	-	-	-	-	-	-	-	-	-	50,5	50,1	49,9	49,5	49	48,3	46,3	43,2	39,5	35	-	-	-	-	-	-
LPC 80-200/22	22	30	57,2	-	-	-	-	-	-	-	-	-	-	-	-	-	56,8	56,6	56,3	56	55,7	55	53,5	51	47,8	42,5	-	-	-	-	-	-
LPC 100-160/10	10	13,6	24,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	23,6	23	22	20,7	19,5	18,1	16,5	15	-	-	-
LPC 100-160/12,5	12,5	17	29,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28,5	28,2	27,9	27	25,8	24,5	23	21,5	20	18,5	-	-
LPC 100-160/15	15	20	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	33,8	33,3	32,5	31,7	30,5	29,2	27,6	26	24,5	-	-
LPC 100-200/18,5	18,5	25	42,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41,8	41,5	41	40	38,6	37	35	33	30,5	28	-	-
LPC 100-200/22	22	30	47,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	46,7	46,3	45,5	44,4	43	41,2	39	36,7	34	-	-
LPC 100-200/30	30	40	55,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	53	52	50,5	49	47	45	42,5	37	-
LPC 100-200/37	37	55	57,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56,7	56,3	55,8	55	53,8	52,3	50,5	48	42	-
LPC 100-250/37	37	55	68,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67,5	67	66,2	65	63,3	61	58,2	55	47	-

PERFORMANCE CHART LPCD series — 2 POLES



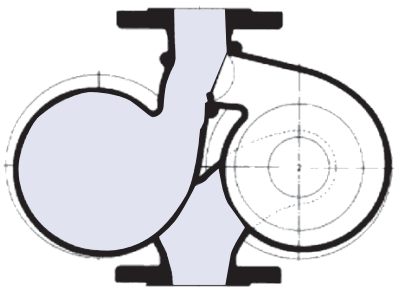
R.P.M. ≈ 2900 min^{-1}
Fluid test: *clean water* 20°C
Applicable standard: UNI EN ISO 9906 Annex A

PERFORMANCE TABLE LPCD 40-50-65-80-100 series

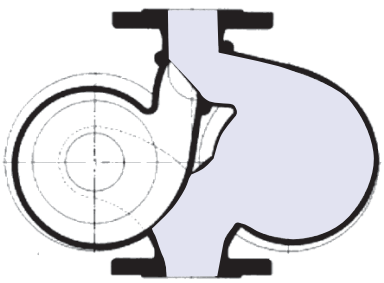
2 POLES

Pump type	Motor		Q=Capacity																										
			m³/h	0	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36	42	48	54	60	66	75	90	105	120	135	150	165
			l/min	0	100	125	150	175	200	225	250	300	350	400	450	500	600	700	800	900	1000	1100	1250	1500	1750	2000	2250	2500	2750
	kW	HP	H=Total head																										
LPCD 40-125/0,55	0,55	0,75	14,2	12,5	11,6	10,6	9,7	8,5	7,4	6,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 40-125/0,75	0,75	1,0	16,9	15,3	14,5	13,7	12,8	11,5	10,4	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 40-125/1,1	1.1	1,5	21,5	20,5	19,7	19	18,1	17,1	15,9	14,5	11,2	7,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 40-125/1,5	1,5	2	25	24,5	24,1	23,5	22,9	22	20,8	19,5	16,5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 50-125/1,5	1,5	2	16,8	-	-	-	-	16	15,7	15,5	15	14,2	13,2	11,9	10,5	7	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 50-125/2,2	2,2	3	20	-	-	-	-	19,5	19,3	19,1	18,5	17,5	16,6	15,5	14,1	10,5	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 50-125/3	3	4	25	-	-	-	-	24,7	24,6	24,5	24,2	23,7	23	21,8	20,5	17	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 50-160/3	3	4	31	-	-	-	-	30,5	30,2	29,9	29	27,8	26,5	24,9	23	18	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 50-160/4	4	5,5	38	-	-	-	-	37	36,8	36,5	35,5	34,6	33,5	32,2	30,7	26,5	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/3	3	4	24	-	-	-	-	-	-	-	-	23	22,5	22	21,3	19,7	17,2	14,5	-	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/4	4	5,5	27,5	-	-	-	-	-	-	-	-	27	26,6	26	25,5	24,2	22,5	20,2	16,8	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/5,5	5,5	7,5	33	-	-	-	-	-	-	-	-	-	32,3	32	31,5	30,8	29,5	28	25,8	23,5	-	-	-	-	-	-	-	-	-
LPCD 65-160/7,5	7,5	10	37	-	-	-	-	-	-	-	-	-	36,7	36,4	36	35,2	34,1	32,8	31	28,8	26	-	-	-	-	-	-	-	-
LPCD 80-160/7,5	7,5	10	26,2	-	-	-	-	-	-	-	-	-	-	-	-	25,5	25,2	24,7	24	23,3	22,3	20,5	16,9	12,5	-	-	-	-	-
LPCD 80-160/10	10	13,6	31	-	-	-	-	-	-	-	-	-	-	-	-	-	30,5	30	29,5	29	28,3	27	24	20,2	16	-	-	-	-
LPCD 80-160/12,5	12,5	17	37	-	-	-	-	-	-	-	-	-	-	-	-	-	36	35,5	35	34,5	34	32,8	30	27	23	19	-	-	-
LPCD 80-160/15	15	20	42	-	-	-	-	-	-	-	-	-	-	-	-	-	41	40,5	39,9	39,2	38,6	37,5	35,5	32,5	29	24	-	-	-
LPCD 100-200/12,5	12,5	17	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	32,7	32	30,7	29	27	24.6	22	19	
LPCD 100-200/15	15	20	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.5	38.2	37.7	36.4	34.8	33	31	28.6	26	

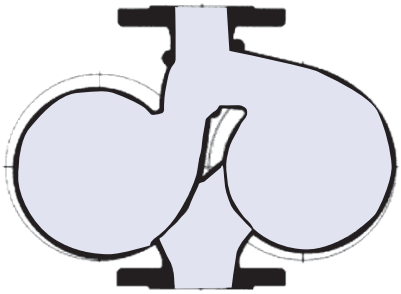
Automatic operation of non-return valve



Left pump in operation

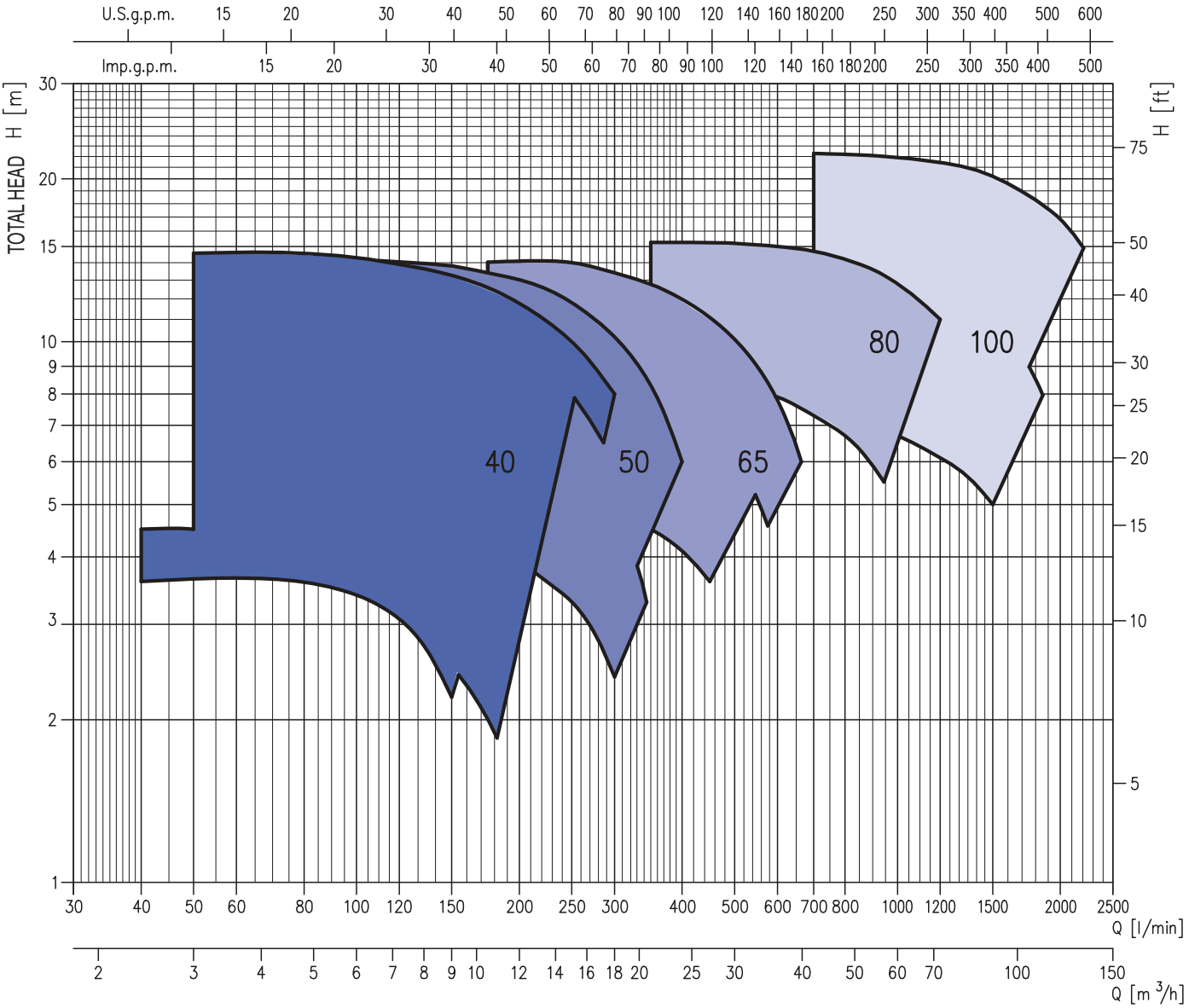


Right pump in operation



Parallel operation

PERFORMANCE CHART LPC4 series — 4 POLES

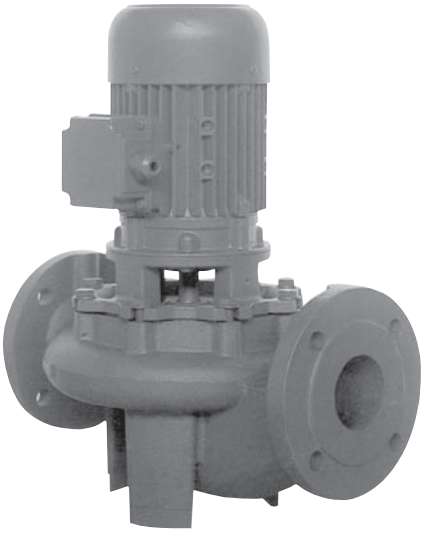


R.P.M. ≈ 1450 min^{-1}
Fluid test: *clean water* 20°C
Applicable standard: UNI EN ISO 9906 Annex A

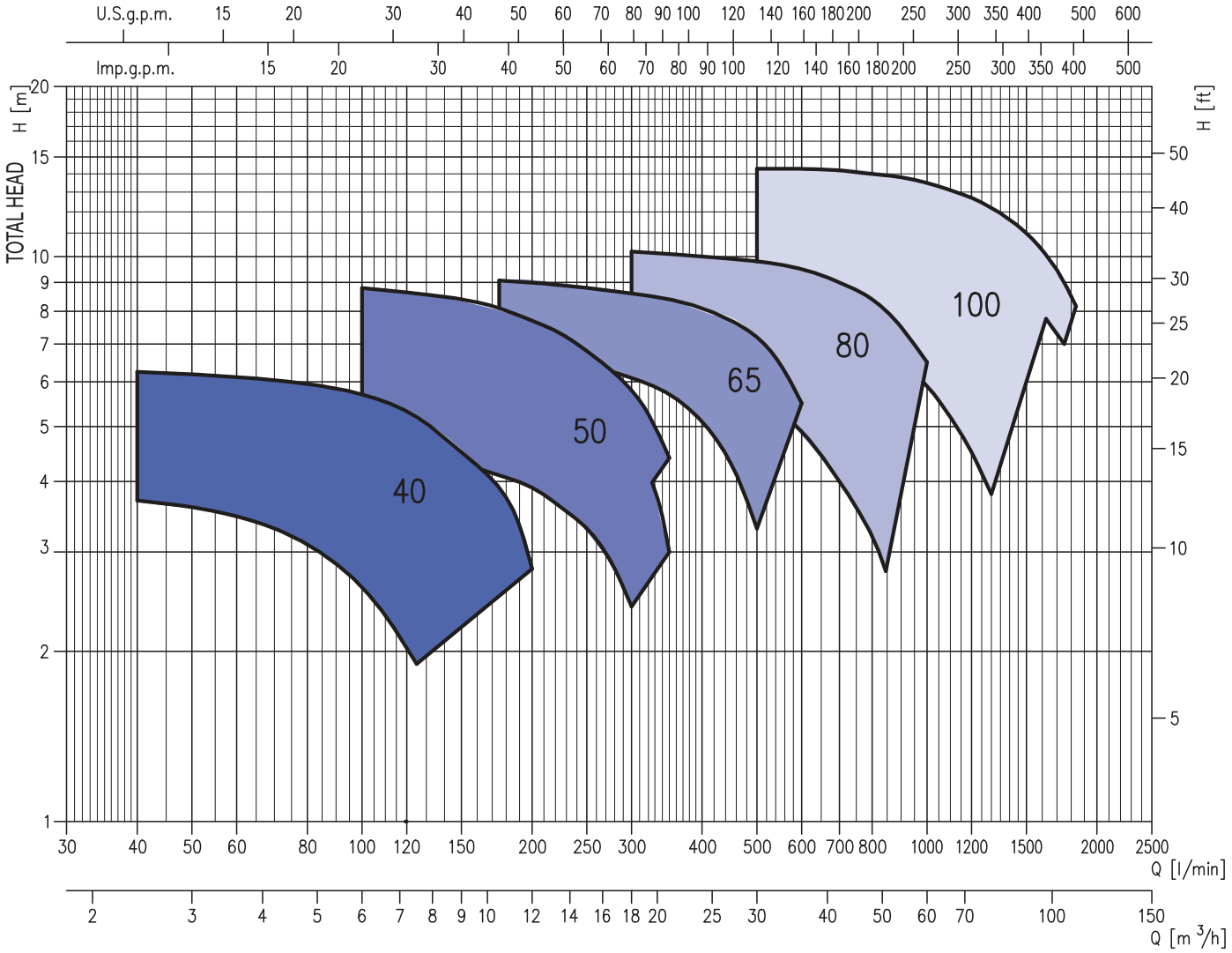
PERFORMANCE TABLE LPC4 40-50-65-80-100 series

4 POLES

Pump type	Motor		Q=Capacity																												
			m³/h	0	2.4	3	4.5	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36	42	48	54	60	66	72	78	90	105	120	135
			l/min	0	40	50	75	100	125	150	175	200	225	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1500	1750	2000	2250
	kW	HP	H=Total head																												
LPC4 40-100/0,25	0,25	0,33	3,7	3,6	3,55	3,5	3,3	2,9	2,5	2	1,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-125/0,25 R	0,25	0,33	4,8	4,5	4,4	4,1	3,7	3	2,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC44 40-125/0,25	0,25	0,33	6,3	-	6,2	6	5,7	5,2	4,5	3,9	2,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-160/0,37	0,37	0,55	9,6	-	9,4	9,2	8,9	8,4	7,7	6,9	5,8	4,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-200/0,75	0,75	1,0	13,5	-	-	12,8	12,4	11,9	11,3	10,6	9,8	9	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-200/0,92	0,92	1,25	15	-	-	14,6	14,3	13,8	13,3	12,7	11,8	10,9	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 50-125/0,25	0,25	0,33	4,8	-	-	-	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 50-125/0,37	0,37	0,55	6,4	-	-	-	6,3	6,2	6,1	6	5,8	5,6	5,3	4,6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 50-160/0,55	0,55	0,75	9,2	-	-	-	8,8	8,6	8,4	8,1	7,7	7,3	6,8	5,8	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 50-200/1,1 R	1,1	1,5	12,9	-	-	-	12,7	12,5	12,1	11,7	11,2	10,7	10,1	8,5	6,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 50-200/1,1	1,1	1,5	14,5	-	-	-	14,2	14	13,8	13,4	13	12,5	11,8	10,2	8,3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-125/0,37	0,37	0,55	5,4	-	-	-	-	-	5,3	5,25	5,2	5,1	5	4,8	4,5	4,1	3,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-125/0,55	0,55	0,75	6,5	-	-	-	-	-	6,4	6,3	6,2	6,1	6	5,8	5,5	5,2	4,9	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-160/0,75	0,75	1,0	8,3	-	-	-	-	-	-	-	8,1	8	7,9	7,8	7,4	7	6,6	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-160/0,92	0,92	1,25	9,1	-	-	-	-	-	-	-	9	8,9	8,8	8,7	8,4	8,1	7,7	7,2	5,5	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-200/1,1	1,1	1,5	12,6	-	-	-	-	-	-	-	12,3	12,2	12	11,5	10,8	10	9	8	5,8	-	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 65-200/1,5	1,5	2	14,3	-	-	-	-	-	-	-	14,1	14,1	14	13,6	13	12,1	11,2	10,1	7,8	5	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 80-160/0.75	0,75	1	6,4	-	-	-	-	-	-	-	-	-	-	6,3	6,1	6	5,8	5,6	4,9	4	3,2	2,2	-	-	-	-	-	-	-	-	-	-
LPC4 80-160/0,92	0,92	1,25	7,4	-	-	-	-	-	-	-	-	-	-	7,3	7,2	7,1	7	6,8	6,3	5,6	4,8	3,8	-	-	-	-	-	-	-	-	-	-
LPC4 80-160/1,1	1,1	1,5	8,6	-	-	-	-	-	-	-	-	-	-	8,5	8,5	8,4	8,3	8,2	7,9	7,3	6,7	5,9	5	-	-	-	-	-	-	-	-	-
LPC4 80-160/1,5	1,5	2	10,3	-	-	-	-	-	-	-	-	-	-	10,2	10,1	10	9,9	9,8	9,5	9	8,4	7,5	6,5	-	-	-	-	-	-	-	-	-
LPC4 80-200/2,2	2,2	3	12,6	-	-	-	-	-	-	-	-	-	-	-	-	12,5	12,4	12,3	12,1	11,7	11,1	10,4	9,6	8,5	-	-	-	-	-	-	-	-
LPC4 80-200/3	3	4	15,4	-	-	-	-	-	-	-	-	-	-	-	-	15,3	15,3	15,2	15	14,6	14,2	13,6	12,8	11,9	11	-	-	-	-	-	-	-
LPC4 100-160/1.5	1,5	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,7	7,5	7,2	7	6,7	6,4	6,1	5,8	5	-	-	-	-
LPC4 100-160/2.2	2,2	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,7	9,5	9,4	9,1	8,8	8,5	8,2	7,9	7,1	6	-	-	-
LPC4 100-200/3	3	4	12,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11,8	11,5	11,3	10,9	10,5	10	9,5	8,5	7	-	-	-
LPC4 100-200/4	4	5,5	14,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,3	14,2	14	13,8	13,4	13,1	12,7	12,2	11	9	6,5	-	-
LPC4 100-250/5.5	5,5	7,5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,2	18,9	18,5	18,1	17,7	17,2	16	14,5	12	-	-
LPC4 100-250/7.5	7,5	10	23,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,3	22,1	21,9	21,7	21,3	21	20	18,5	16,8	14,5	



PERFORMANCE CHART LPCD4 series — 4 POLES

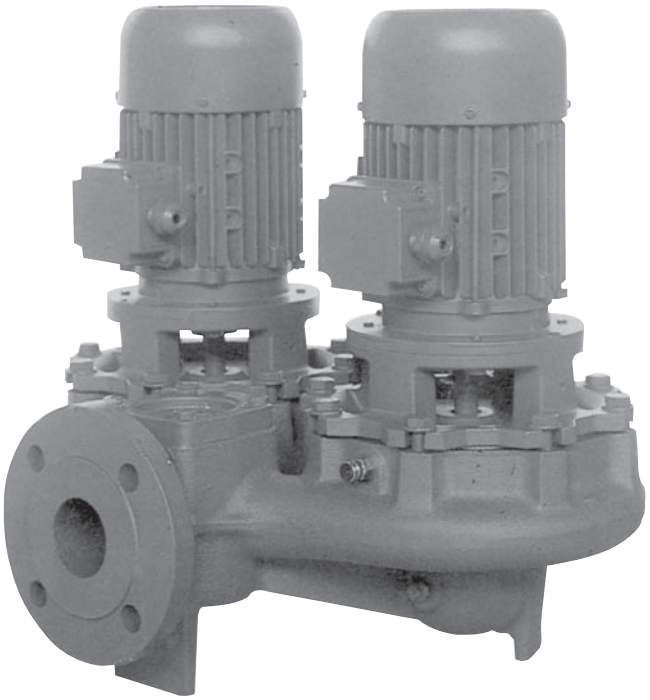


R.P.M. ≈ 1450 min^{-1}
Fluid test: *clean water* 20°C
Applicable standard: UNI EN ISO 9906 Annex A

PERFORMANCE TABLE LPCD4 40-50-65-80-100 series

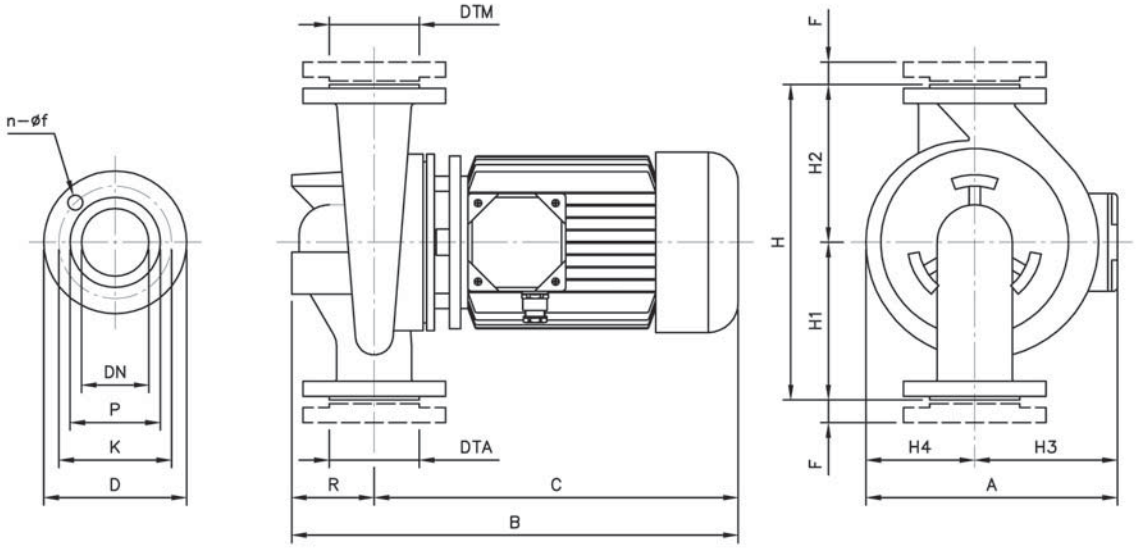
4 POLES

Pump type	Motor		Q=Capacity																											
			m³/h	0	2.4	3	4.5	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36	42	48	54	60	66	72	78	90	105	120
			l/min	0	40	50	75	100	125	150	175	200	225	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1500	1750	2000
	kW	HP	H=Total head																											
LPCD4 40-100/0,25	0,25	0,33	4	3,7	3,6	3,1	2,6	1,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 40-125/0,25 R	0,25	0,33	4,8	4,5	4,4	4,1	3,7	3	2,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 40-125/0,25	0,25	0,33	6,3	-	6,2	6	5,7	5,2	4,5	3,9	2,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 50-125/0,25	0,25	0,33	4,8	-	-	-	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 50-125/0,37	0,37	0,55	6,4	-	-	-	6,3	6,2	6,1	6	5,8	5,.6	5,3	4,6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 50-160/0,55	0,55	0,75	9,2	-	-	-	8,8	8,.6	8,4	8,1	7,7	7,3	6,8	5,8	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 65-160/0,55	0,55	0,75	6,9	-	-	-	-	-	6,8	6,7	6,6	6,5	6,4	6,1	5,7	5,1	4,3	3,3	-	-	-	-	-	-	-	-	-	-	-	-
LPCD4 65-160/0,75	0,75	1,0	8,3	-	-	-	-	-	-	-	8,1	8	7,9	7,8	7,4	7	6,6	6	4	-	-	-	-	-	-	-	-	-	-	-
LPCD4 65-160/0,92	0,92	1,25	9,1	-	-	-	-	-	-	-	9	8,.9	8,.8	8,7	8,4	8,1	7,7	7,2	5,5	-	-	-	-	-	-	-	-	-	-	-
LPCD4 80-160/0,75	0,75	1	6,4	-	-	-	-	-	-	-	-	-	-	6,3	6,1	6	5,8	5,6	4,9	4	3,2	2,2	-	-	-	-	-	-	-	-
LPCD4 80-160/0,92	0,92	1,.25	7,4	-	-	-	-	-	-	-	-	-	-	7,3	7,2	7,1	7	6,8	6,3	5,6	4,8	3,8	-	-	-	-	-	-	-	-
LPCD4 80-160/1,1	1,1	1,5	8,6	-	-	-	-	-	-	-	-	-	-	8,5	8,5	8,4	8.3	8,2	7,9	7,3	6,7	5,9	5	-	-	-	-	-	-	-
LPCD4 80-160/1,5	1,5	2	10,3	-	-	-	-	-	-	-	-	-	-	10,2	10,1	10	9.9	9,8	9,5	9	8,4	7,5	6,5	-	-	-	-	-	-	-
LPCD4 100-200/1,5	1.5	2	8,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,1	7,8	7,4	7	6,5	5,9	5,2	4,5	3,8	-	-	-
LPCD4 100-200/2,2	2.2	3	10,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,2	10	9,7	9,3	9	8,6	8,2	7,7	7,2	6	-	-
LPCD4 100-200/3	3	4	12,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11,8	11,5	11,3	10,9	10,5	10	9,5	8,5	7	-
LPCD4 100-200/4	4	5,5	14,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,3	14,2	14	13,8	13,4	13,1	12,7	12,2	11	9	6,5



LPC 40-50 series

2 POLES

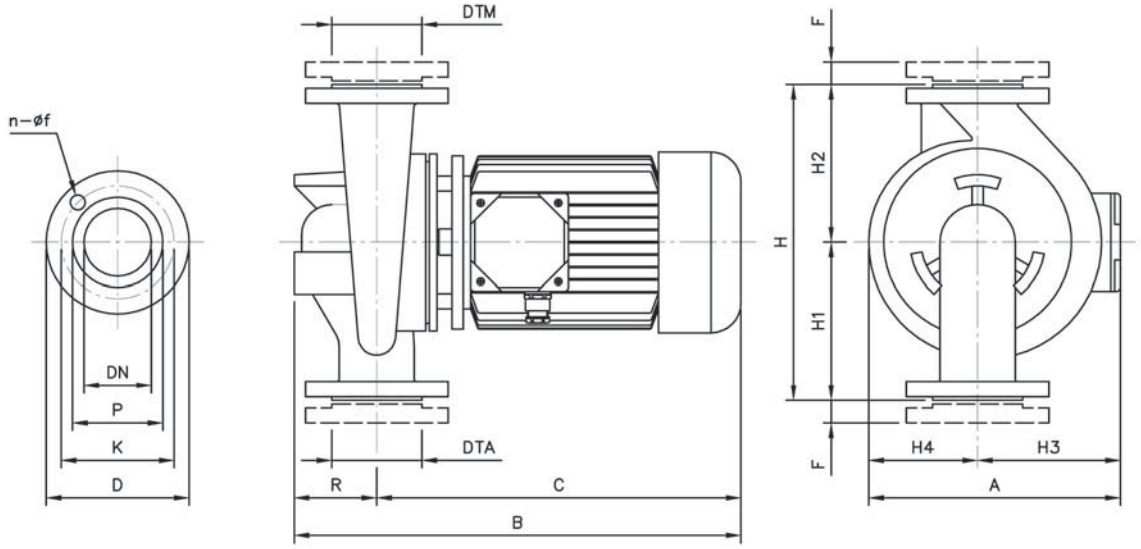


DIMENSIONAL TABLE

Pump type			Dimensions [mm]															Weight (kg)
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	
LPC 40-100/0.55	G1 ½	40PN6	4	14	80	100	130	260	140	120	107	77	90	16	184	445	335	16
LPC 40-100/0.75	G1 ½	40PN6	4	14	80	100	130	260	140	120	107	77	90	16	184	445	335	16
LPC 40-125/0.75	G1 ½	40PN10	4	18	88	110	150	300	160	140	107	93	100	20	200	425	325	24
LPC 40-125/1.1	G1 ½	40PN10	4	18	88	110	150	300	160	140	118	93	100	20	211	445	345	25
LPC 40-125/1.5	G1 ½	40PN10	4	18	88	110	150	300	160	140	118	93	100	20	211	445	345	26
LPC 40-160/2.2	G1 ½	40PN10	4	18	88	110	150	320	170	150	118	108	100	20	226	445	345	30
LPC 40-160/3.0	G1 ½	40PN10	4	18	88	110	150	320	170	150	149	108	100	20	257	485	385	35
LPC 40-160/4.0	G1 ½	40PN10	4	18	88	110	150	320	170	150	149	108	100	20	257	485	385	37
LPC 40-200/4.0	G1 ½	40PN10	4	18	88	110	150	380	200	180	159	127	100	20	286	525	425	50
LPC 40-200/5.5	G1 ½	40PN10	4	18	88	110	150	380	200	180	159	127	100	20	286	535	435	55
LPC 40-200/6.3	G1 ½	40PN10	4	18	88	110	150	380	200	180	159	127	100	20	286	535	435	56
LPC 50-125/1.5	G2	50PN10	4	18	102	125	165	320	180	140	118	103	110	22	221	455	345	27
LPC 50-125/2.2	G2	50PN10	4	18	102	125	165	320	180	140	118	103	110	22	221	455	345	28
LPC 50-125/3.0	G2	50PN10	4	18	102	125	165	320	180	140	149	103	110	22	252	495	385	32
LPC 50-160/3.0	G2	50PN10	4	18	102	125	165	340	180	160	149	113	110	22	262	495	385	32
LPC 50-160/4.0	G2	50PN10	4	18	102	125	165	340	180	160	159	113	110	22	272	535	425	42
LPC 50-200/5.5	G2	50PN10	4	18	102	125	165	400	220	180	159	131	110	22	290	545	435	56
LPC 50-200/6.3	G2	50PN10	4	18	102	125	165	400	220	180	159	131	110	22	290	545	435	57
LPC 50-200/7.5	G2	50PN10	4	18	102	125	165	400	220	180	184	131	110	22	315	650	540	64

LPC 65-80-100 series

2 POLES

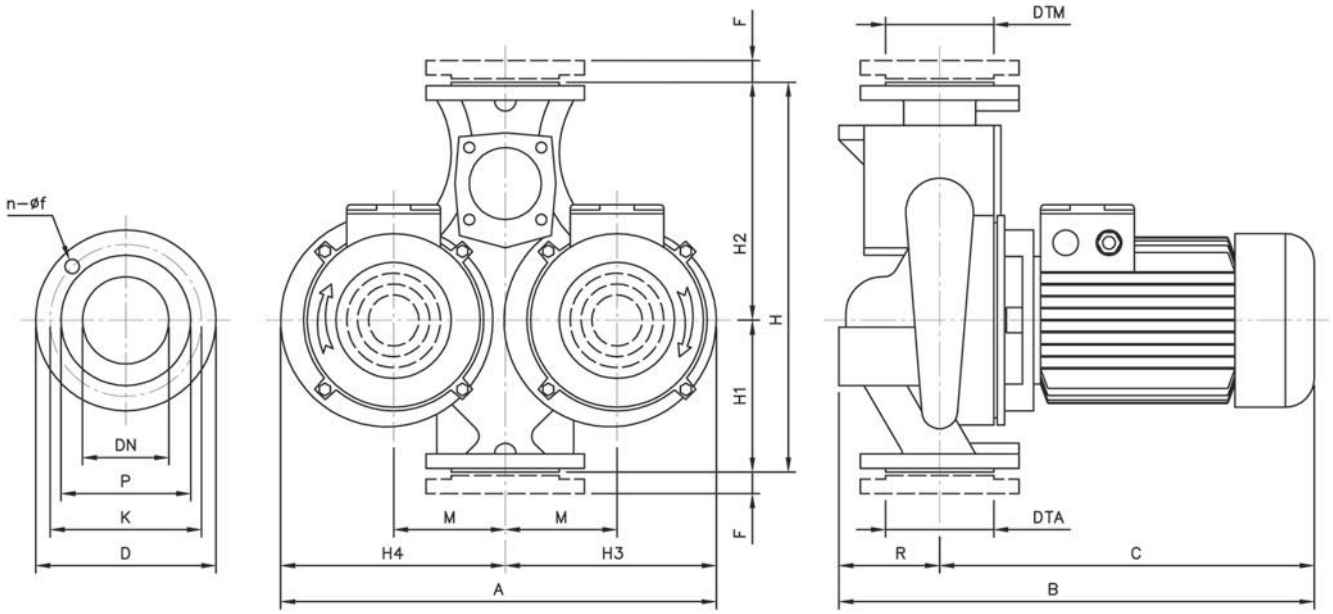


DIMENSIONAL TABLE

Pump type			Dimensions [mm]															Weight
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	(kg)
LPC 65-125/2.2	G2 1/2	65PN10	4	18	122	145	185	360	205	155	118	108	140	22	226	485	345	32
LPC 65-125/3.0	G2 1/2	65PN10	4	18	122	145	185	360	205	155	149	108	140	22	257	525	385	39
LPC 65-125/4.0	G2 1/2	65PN10	4	18	122	145	185	360	205	155	159	108	140	22	267	565	425	43
LPC 65-160/5.5	G2 1/2	65PN10	4	18	122	145	185	400	220	180	159	122	140	22	281	575	435	54
LPC 65-160/7.5	G2 1/2	65PN10	4	18	122	145	185	400	220	180	184	122	140	22	306	680	540	61
LPC 65-200/10	G2 1/2	65PN10	4	18	122	145	185	440	240	200	184	136	140	22	320	680	540	70
LPC 65-200/12.5	G2 1/2	65PN10	4	18	122	145	185	440	240	200	184	136	140	22	320	680	540	77
LPC 80-160/10	G3	80PN10	4	18	138	160	200	440	240	200	184	131	160	24	315	700	540	72
LPC 80-160/12.5	G3	80PN10	4	18	138	160	200	440	240	200	184	131	160	24	315	700	540	79
LPC 80-160/15	G3	80PN10	4	18	138	160	200	440	240	200	184	131	160	24	315	700	540	85
LPC 80-200/15	G3	80PN10	4	18	138	160	200	500	275	225	184	146	160	24	330	700	540	91
LPC 80-200/18.5	G3	80PN10	4	18	138	160	200	500	275	225	229	146	160	24	375	860	700	124
LPC 80-200/22	G3	80PN10	4	18	138	160	200	500	275	225	229	146	160	24	375	860	700	142
LPC 100-160/10	G4	100PN10	8	18	158	180	220	525	300	225	184	136	190	26	320	730	540	76
LPC 100-160/12.5	G4	100PN10	8	18	158	180	220	525	300	225	184	136	190	26	320	730	540	84
LPC 100-160/15	G4	100PN10	8	18	158	180	220	525	300	225	184	136	190	26	320	730	540	91
LPC 100-200/18.5	G4	100PN10	8	18	158	180	220	550	300	250	230	156	190	26	386	890	710	135
LPC 100-200/22	G4	100PN10	8	18	158	180	220	550	300	250	230	156	190	26	386	890	710	153
LPC 100-200/30	G4	100PN10	8	18	158	180	220	550	300	250	257	156	190	26	413	995	805	195
LPC 100-200/37	G4	100PN10	8	18	158	180	220	550	300	250	257	156	190	26	413	995	805	213
LPC 100-250/37	G4	100PN10	8	18	158	180	220	600	320	280	257	176	190	26	433	995	805	220

LPCD 40-50-65-80-100 series

2 POLES

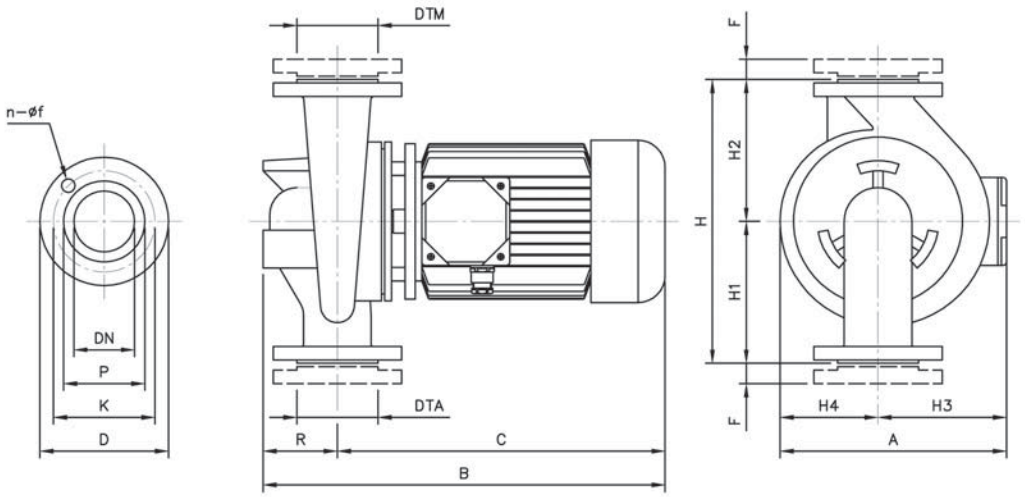


DIMENSIONAL TABLE

Pump type			Dimensions [mm]																Weight (kg)
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	M	R	F	A	B	C	
LPCD 40-125/0.55	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	50
LPCD 40-125/0.75	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	50
LPCD 40-125/1.1	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	445	345	52
LPCD 40-125/1.5	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	445	345	54
LPCD 50-125/1.5	G2	50PN10	4	18	102	125	165	365	145	220	210	217	105	110	22	427	455	345	56
LPCD 50-125/2.2	G2	50PN10	4	18	102	125	165	365	145	220	210	217	105	110	22	427	455	345	58
LPCD 50-125/3.0	G2	50PN10	4	18	102	125	165	365	145	220	210	217	105	110	22	427	495	385	66
LPCD 50-160/3.0	G2	50PN10	4	18	102	125	165	410	170	240	235	245	120	110	22	480	495	385	72
LPCD 50-160/4.0	G2	50PN10	4	18	102	125	165	410	170	240	235	245	120	110	22	480	535	425	86
LPCD 65-160/3.0	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	515	385	81
LPCD 65-160/4.0	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	555	425	101
LPCD 65-160/5.5	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	565	435	125
LPCD 65-160/7.5	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	565	435	132
LPCD 80-160/7.5	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	130	24	550	565	435	137
LPCD 80-160/10	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	690	540	141
LPCD 80-160/12.5	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	690	540	162
LPCD 80-160/15	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	690	540	175
LPCD 100-200/12.5	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	720	540	162
LPCD 100-200/15	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	720	540	162

LPC4 40-50-65-80-100 series

4 POLES

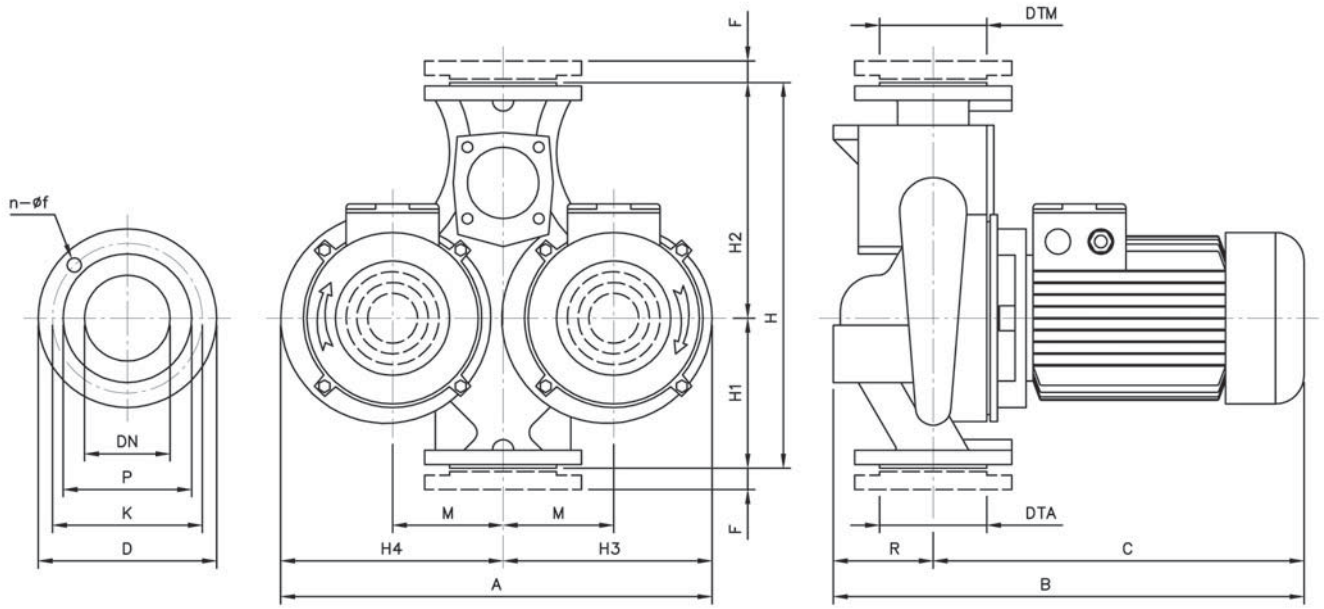


DIMENSIONAL TABLE

Pump type			Dimensions [mm]															Weight
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	(kg)
LPC4 40-100/0.25	G1 ½	40PN6	4	14	80	100	130	260	140	120	107	77	90	16	184	445	355	16
LPC4-40-125/0.25 R	G1 ½	40PN10	4	18	88	110	150	300	160	140	107	93	100	20	200	425	325	20
LPC4 40-125/0.25	G1 ½	40PN10	4	18	88	110	150	300	160	140	107	93	100	20	200	425	325	20
LPC4 40-160/0.37	G1 ½	40PN10	4	18	88	110	150	320	170	150	107	108	100	20	215	425	325	23
LPC4 40-200/0.75	G1 ½	40PN10	4	18	88	110	150	380	200	180	118	127	100	20	245	445	345	30
LPC4 40-200/0.92	G1 ½	40PN10	4	18	88	110	150	380	200	180	118	127	100	20	245	445	345	31
LPC4 50-125/0.25	G2	50PN10	4	18	102	125	165	320	180	140	107	103	110	22	210	435	325	21
LPC4 50-125/0.37	G2	50PN10	4	18	102	125	165	320	180	140	107	103	110	22	210	435	325	22
LPC4 50-160/0.55	G2	50PN10	4	18	102	125	165	340	180	160	107	113	110	22	220	435	325	25
LPC4 50-200/1.1 R	G2	50PN10	4	18	102	125	165	400	220	180	149	131	110	22	280	495	385	36
LPC4 50-200/1.1	G2	50PN10	4	18	102	125	165	400	220	180	149	131	110	22	280	495	385	36
LPC4 65-125/0.37	G2 ½	65PN10	4	18	122	145	185	360	205	155	107	108	140	22	215	465	325	25
LPC4 65-125/0.55	G2 ½	65PN10	4	18	122	145	185	360	205	155	107	108	140	22	215	465	325	26
LPC4 65-160/0.75	G2 ½	65PN10	4	18	122	145	185	400	220	180	118	122	140	22	240	485	345	32
LPC4 65-160/0.92	G2 ½	65PN10	4	18	122	145	185	400	220	180	118	122	140	22	240	485	345	33
LPC4 65-200/1.1	G2 ½	65PN10	4	18	122	145	185	440	240	200	149	136	140	22	285	525	385	38
LPC4 65-200/1.5	G2 ½	65PN10	4	18	122	145	185	440	240	200	149	136	140	22	285	525	385	40
LPC4 80-160/0.75	G3	80PN10	4	18	138	160	200	440	240	200	118	131	160	24	249	505	345	36
LPC4 80-160/0.92	G3	80PN10	4	18	138	160	200	440	240	200	118	131	160	24	249	505	345	37
LPC4 80-160/1.1	G3	80PN10	4	18	138	160	200	440	240	200	149	131	160	24	280	545	385	38
LPC4 80-160/1.5	G3	80PN10	4	18	138	160	200	440	240	200	149	131	160	24	280	545	385	40
LPC4 80-200/2.2	G3	80PN10	4	18	138	160	200	500	275	225	159	146	160	24	305	585	425	51
LPC4 80-200/3.0	G3	80PN10	4	18	138	160	200	500	275	225	159	146	160	24	305	585	425	57
LPC4 100-160/1.5	G4	100PN10	8	18	158	180	220	525	300	225	149	136	190	26	285	575	385	45
LPC4 100-160/2.2	G4	100PN10	8	18	158	180	220	525	300	225	159	136	190	26	295	615	425	50
LPC4 100-200/3.0	G4	100PN10	8	18	158	180	220	550	300	250	159	156	190	26	315	615	425	66
LPC4 100-200/4.0	G4	100PN10	8	18	158	180	220	550	300	250	159	156	190	26	315	625	435	73
LPC4 100-250/5.5	G4	100PN10	8	18	158	180	220	600	320	280	184	176	190	26	360	730	540	96
LPC4 100-250/7.5	G4	100PN10	8	18	158	180	220	600	320	280	184	176	190	26	360	730	540	106

LPCD4 40-50-65-80-100 series

4 POLES



DIMENSIONAL TABLE

Pump type			Dimensions [mm]																Weight (kg)
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	M	R	F	A	B	C	
LPCD4 40-100/0.25	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	41
LPCD4 40-125/0.25R	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	41
LPCD4 40-125/0.25	G1 ½	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	41
LPCD4 50-125/0.25	G2	50PN10	4	18	102	125	165	365	145	220	210	217	105	110	22	427	435	325	44
LPCD4 50-125/0.37	G2	50PN10	4	18	102	125	165	365	145	220	210	217	105	110	22	427	435	325	46
LPCD4 50-160/0.55	G2	50PN10	4	18	102	125	165	410	170	240	235	245	120	110	22	480	435	325	52
LPCD4 65-160/0.55	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	475	345	65
LPCD4 65-160/0.75	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	475	345	65
LPCD4 65-160/0.92	G2 ½	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	475	345	67
LPCD4 80-160/0.75	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	485	335	72
LPCD4 80-160/0.92	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	485	335	74
LPCD4 80-160/1.1	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	535	385	79
LPCD4 80-160/1.5	G3	80PN10	4	18	138	160	200	510	205	305	270	280	135	150	24	550	535	385	83
LPCD4 100-200/1.5	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	535	355	110
LPCD4 100-200/2.2	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	605	425	130
LPCD4 100-200/3.0	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	605	425	138
LPCD4 100-200/4.0	G4	100PN10	8	18	158	180	220	630	240	390	345	325	165	180	26	670	615	435	150

Small 3 speed circulators for heating systems.

SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature: 110°C
- Maximum ambient temperature: 55°C
- Maximum circulator surface temperature: 125°C

MATERIALS

- Pump casing in cast iron
- Shaft in chrome coated steel
- Impeller in tecnopolymer
- Can in stainless steel

TECHNICAL DATA

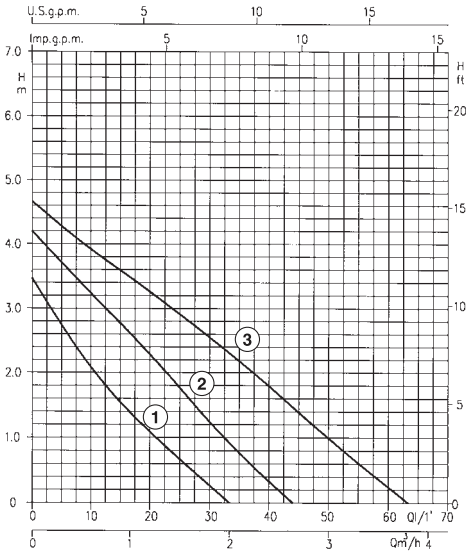
- 3 speed motor with regulator on the terminal box
- Insulation class H
- 1~230V 50Hz

Available in the following versions:

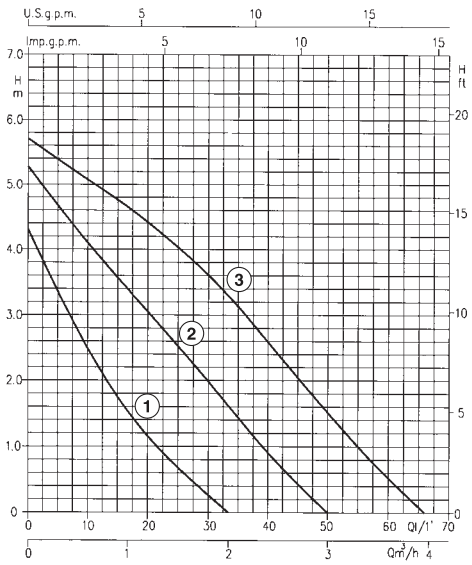
- mm.130 with 1" and 1"1/2 pipe male connection with 2 gaskets
- mm.180 with 1"1/2 and 2" pipe male connection with 2 gaskets
- mm.120 flanged, with 2 gaskets and bolts

PERFORMANCE CURVES *(according to ISO 9906 Annex A)*

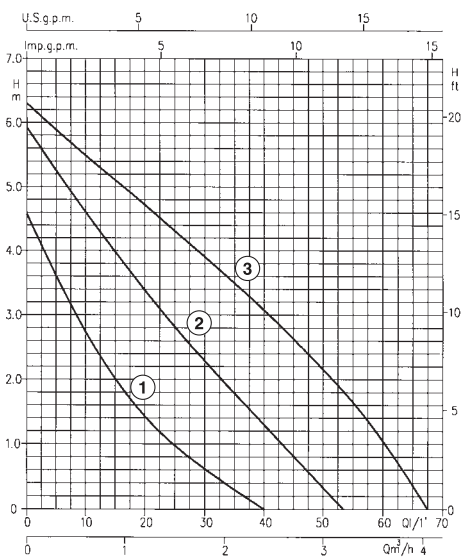
MR 43



MR 53



MR 63



4-speed circulator pumps with motor fitted directly in pump casing. Using the wsitch, you can achieve different performanced curves, providing better flexibility and meeting the system's hydraulic requiremets harmoniously. Used in domestic and industrial heating systems and for secondary reciculating applications.

SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature: 120°C

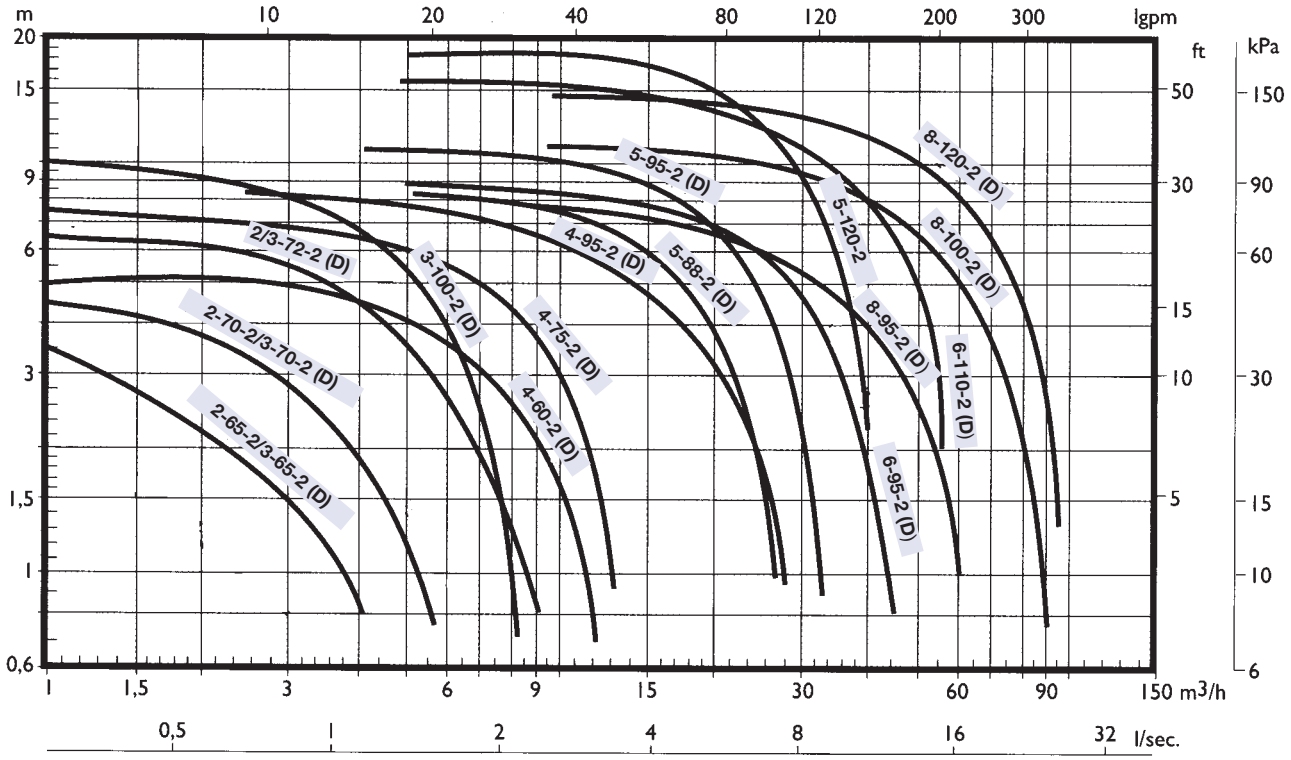
MATERIALS

- Pump casing in cast iron or bronze
- Impeller in tecnopolymer, bronze or cast iron
- Can and shaft in stainless steel
- O-Rings: EPDM

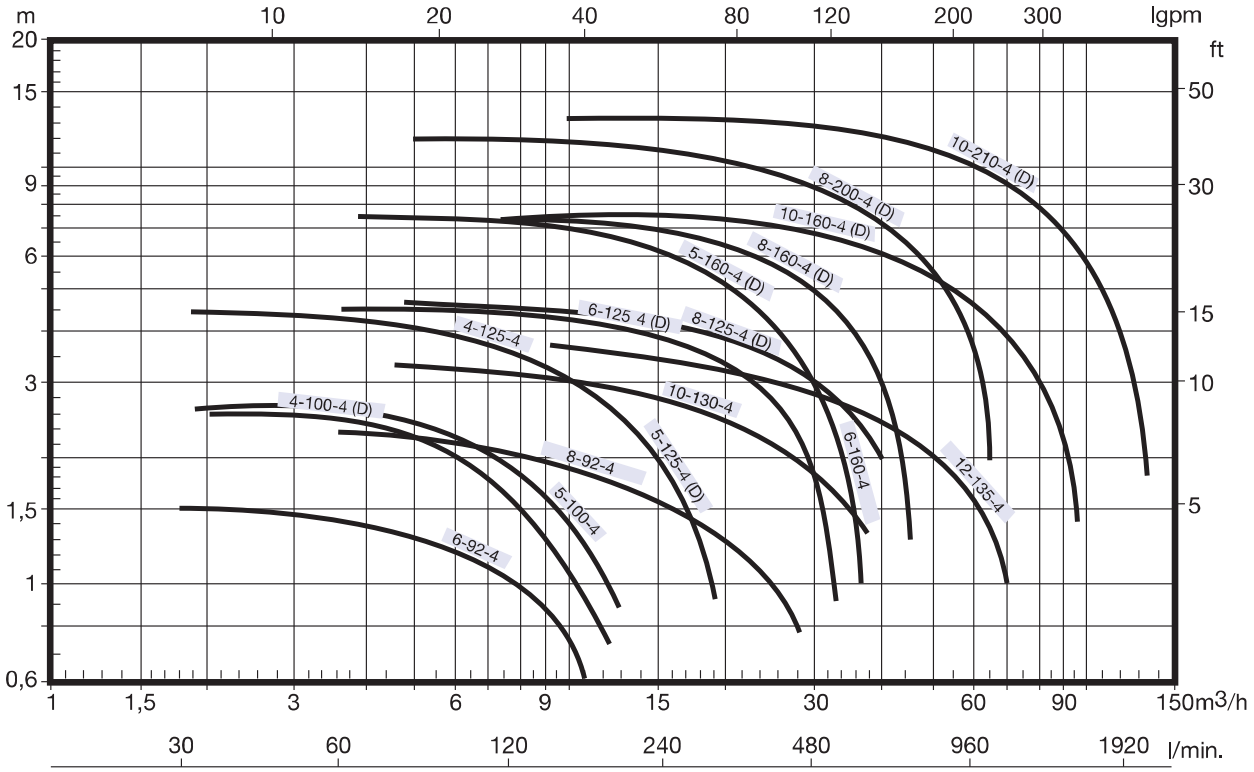
TECHNICAL DATA

- Insulation class F, IP 42 (3 speed), IP 44 (4 speed)
- 1~230V 50Hz, 3~ 400V +6% -10%, 50 Hz
- Flanges:
  DN 40, 50, 65, PN 6/10 double drilled (DIN 2533)
  DN 80, 100, 125, PN 16 (DIN 2533)

PERFORMANCE CHART *at 2800 min $^{-1}$ (according to ISO 9906 Annex A)*



PERFORMANCE CHART *at 1400 min $^{-1}$ (according to ISO 9906 Annex A)*



ETHERMA E

ELECTRONIC CIRCULATORS

4-speed circulator pumps with motor fitted directly in pump casing and provided with integrated electronic speed control giving greater flexibility. Using the switch, you can achieve different performance curves, providing better flexibility and meeting the system's hydraulic requirements harmoniously. Used in domestic and industrial heating systems and for secondary recirculating applications.

SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature: 120°C

MATERIALS

- Pump casing in cast iron or bronze
- Impeller in tecnopolymer, bronze or cast iron
- Can and shaft in stainless steel
- O-Rings: EPDM

TECHNICAL DATA

- Insulation class F, IP 44
- 1~230V, 3~400V (±10%) 50Hz

Electronic overload protection incorporated.
(single and twin versions available)

SHOWER

BEST BOX D *(Shower version)*

Especially suitable for shower water. Doesn't need to be placed bellow ground as it has a tank inlet positioned 90 mm from the bottom and features a non return device.

BEST BOX L *(Washbasin version)*

Lifting water for domestic use, utility rooms and bathrooms (sink, dishwasher, washing machine)

- Predisposed to pump type Best One
- Free passage: 10 mm
- Outlet diam.: 1"1/4
- Tank capacity: 30 l
- Weight with pump: 9 kg
- Weight without pump: 7 kg

GARAGE

BEST BOX G *(Garage version)*

Lifting rainwater, from washing areas, garage, ramps, etc...

- Predisposed to pump type Best One Vox
- Free passage: 20 mm
- Outlet diam.: 1"1/4
- Tank capacity: 30 l
- Weight with pump: 12 kg
- Weight without pump: 10 kg

MINI RIGHT

Lifting of sewage for basements laundries, small households, etc. (from 4 to 6 people) option of use underground or on surface.

- Predisposed to pump type Right series
- Free passage: 35 mm
- Outlet diam.: 50-63 mm
- Tank capacity: 100 l
- Weight with pump: 26 kg
- Weight without pump: 20,3 kg

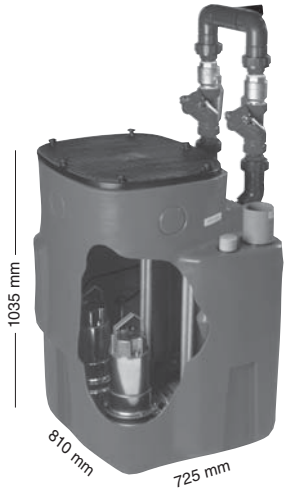
Lifting waste water for domestic use and foul waste

SANIRELEV 11

- Predisposed to pump type DW or DW VOX
- Free passage: 50 mm
- Outlet diam.: DN50/DN63
- Tank capacity: 360 l
- Weight: 30 kg

SANIRELEV 11 SR 10T
360 l polyethylene tank, supplied for use with a DW and DW-VOX series motor-driven pump, with 2" delivery pipe, with no coupling foot and lowering device

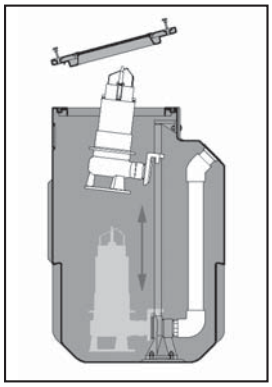
SANIRELEV 11 SR 10 PT
360 l polyethylene tank, supplied for use with a DW and DW-VOX series motor-driven pump, with 2" delivery pipe, with coupling foot and lowering device

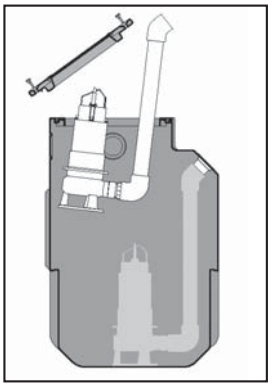


SANIRELEV 22

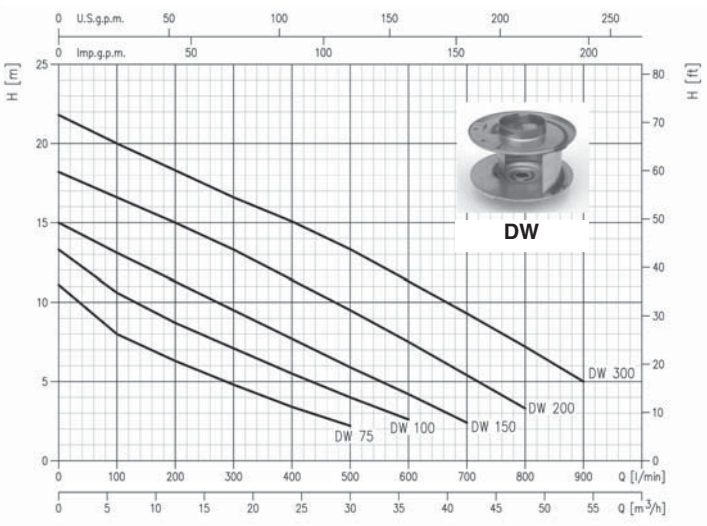
- Predisposed to two pumps type DW or DW VOX
- Free passage: 50 mm
- Outlet diam.: DN50/DN63
- Tank capacity: 540 l
- Weight: 44 kg

SANIRELEV 22 SR 20 PT
540 l polyethylene tank, supplied for use with two DW- and DW VOX-series motor-driven pump, with 2" delivery pipe, with 2 coupling feet and lowering devices

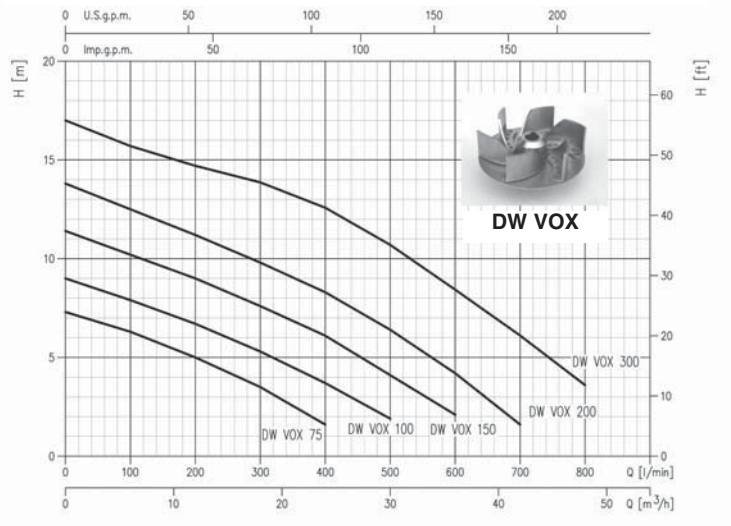

With slide for lowering and coupling foot


Without slide

SANIRELEV 11-22



SANIRELEV 11-22



Stainless steel centrifugal pumps arranged for the realization of autoclaves groups and autoclaves groups with one single-phase stainless steel pump.

1 GP S

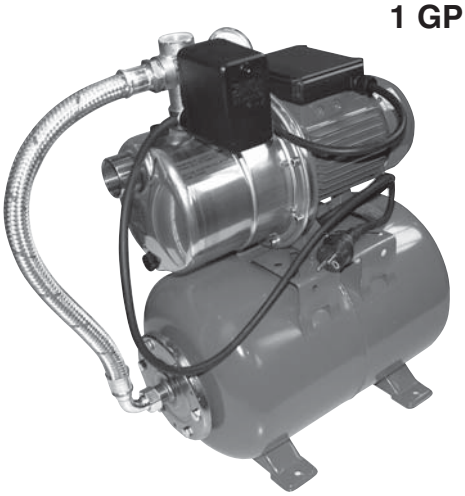
1 GP P

JES-JE-CD-JESX-JEX-CDX and COMPACT pumps prearranged for application of vertical diaphragm pressure vessel (assembly of the 5 ways connection, pressure gauge, pressure switch with electrical connection, 1,5 m cable with plug)

1 GP S

JES-JE-CD-JESX-JEX-CDX pumps for producing a pressure booster set with the pump complete with 24 liters vertical pressure vessel (pump assembled with pressure vessel 5 ways connection, pressure gauge, pressure switch with wiring, 1,5 m cable with plug

1 GP H



1 GP H

JES-JE-CD-JESX-JEX-CDX and COMPACT pumps for producing a pressure booster set with the pump complete with 24 liters horizontal pressure vessel/pump assembled with pressure vessel, 3 ways connection, flexible pressure gauge, pressure switch with wiring, 1,5 m cable with plug

1 GP PRESSCOMFORT

1GP PRESSCOMFORT

JES-JE-CD-JESX-JEX-CDX and COMPACT pumps for producing a pressure booster set with the automatic control device Presscomfort (pump assembled with presscomfort with wiring, 1,5 m cable with plug)

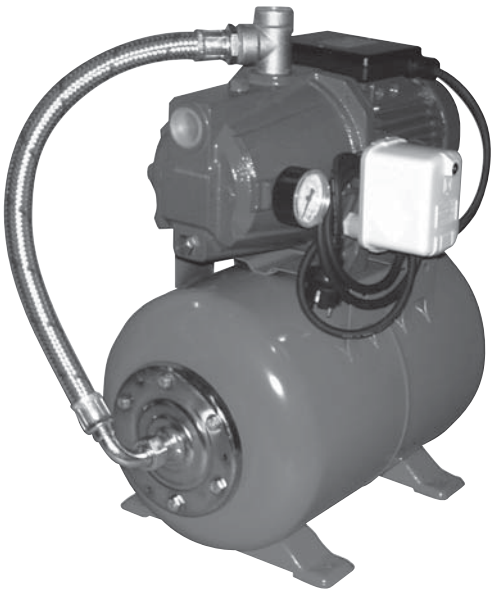
Stainless steel centrifugal pumps arranged for the realization of autoclaves groups and autoclaves groups with one single-phase stainless steel pump.

1 GP P

AGE-AGF-AGA-CMA-CDA-PRA pumps prearranged for application of vertical diaphragm pressure vessel (assembly of 5 ways connection, pressure gauge, pressure switch with electrical connection, 1,5 m cable with plug)

1 GP S

JES-JE-CD-JESX-JEX-CDX pumps for producing a pressure booster set with the pump complete with 24 liters vertical pressure vessel (pump assembled with pressure vessel 5 ways connection, pressure gauge, pressure switch with wiring, 1,5 m cable with plug)



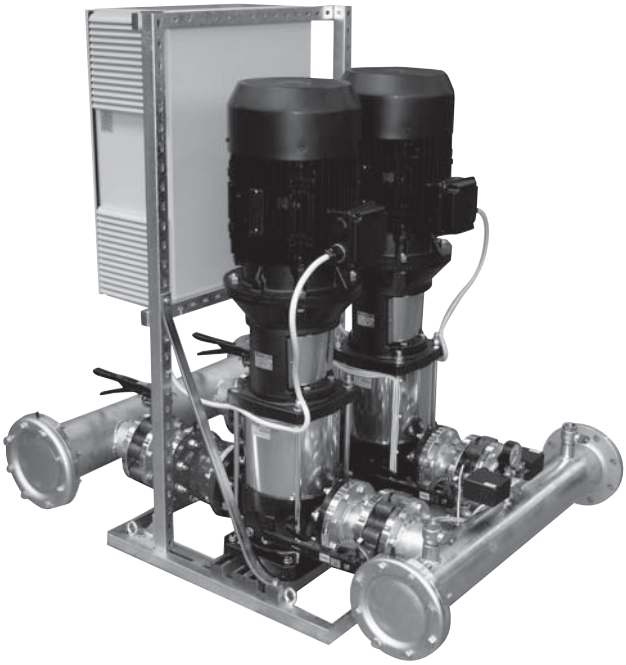
1 GP H

JES-JE-CD-JESX-JEX-CDX and COMPACT pumps for producing a pressure booster set with the pump complete with 24 liters horizontal pressure vessel/pump assembled with pressure vessel, 3 ways connection, flexible pressure gauge, pressure switch with wiring, 1,5 m cable with plug

1GP PRESSCOMFORT

JES-JE-CD-JESX-JEX-CDX and COMPACT pumps for producing a pressure booster set with the automatic control device Presscomfort (pump assembled with presscomfort with wiring, 1,5 m cable with plug)

GP pressure booster sets are small automatic systems with 2 or more pumps in parallel, designed and built to meet the most common requirements in terms of water pressure maintenance in residential, commercial, industrial and agricultural installations in a straighforward, reliable manner. GP units are supplied ready for connection to diaphragm and air-cushion pressure vessels and those with an air feed. The pumps belonging to the individual unit are started by the activation of suitably set pressure switches by means of a control panel.
In units controlled with a control panel equipped with an inverter (VLT), in addition to pressure switches, one of the pumps is started by setting a pressure transducer.



GP units employ the following series of pumps:

1st) Small and medium capacity horizontal end-suction centrifugal models

- multistage with threaded parts Compact series
- single/dual-impeller with all stainless steel hydraulic parts, CDX-2CDX series
- single/dual impeller with traditional hydraulic parts, CMA-CMB-CDA series

2nd) Vertical multistage centrifugal models

- water jacket cooled end-suction Multigo series
- with standardized motor and coupling, all stainless steel hydraulic parts
- with standardized motor and coupling, stainless steel hydraulic parts, except lower casing and seal plate in cast iron

3rd) Horizontal end-suction centrifugal models standardized to EN 733 (former DIN 24255)

- with all stainless steel hydraulic parts, 3M series
- with traditional hydraulic parts, MD/MMD series

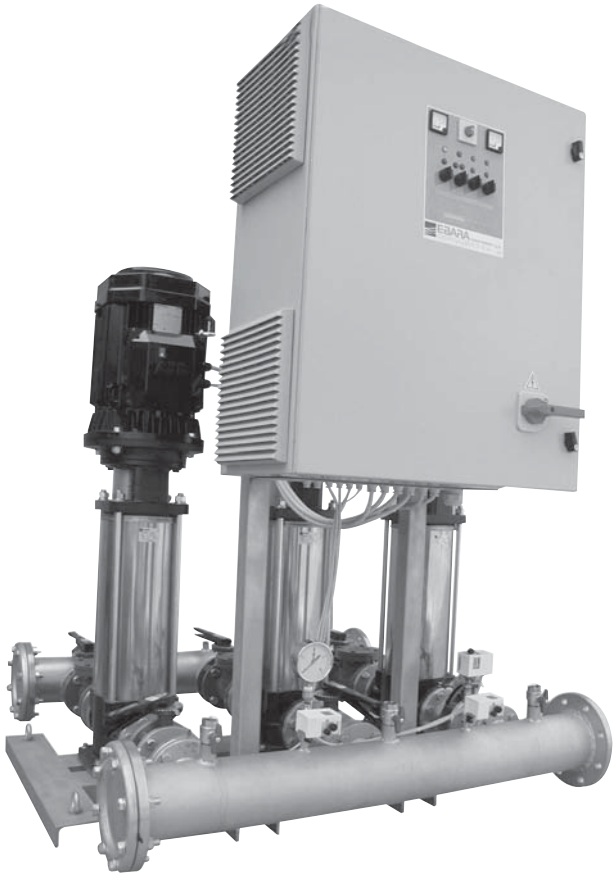
There are two standard versions:

- **2GP** units with two identical single-phase or three-phase pumps;
- **3GP** units with three identical three-phase pumps.

For the GP EVM series, units with up to four pumps can be provided on request.

CONTROLLED BY HERTZ ONE INVERTER

The single-phase GPE units are fitted with the new control box hertz one which allows the pumps running controlling the speed by a frequency converter (Inverter).
As mains pressure varies, the pump controlled by the inverter varies its speed of rotation to restore pressure to the set valve, making for considerable energy savings.



OPERATING CONDITIONS

The GPE Ebara pressure booster sets, in standard versions, can be used for residential, commercial, industrial and agricultural applications, namely for: water lifting or handling, cooling, heating, irrigation, washing systems. The liquid carried can be: clean water, drinking water, rainwater, well water, mixed water, provided it does not contain solids or fibres in suspension and is free of aggressive chemical substances. Units must be installed in a shelter of some kind and protected from the elements and frost.
Temperature of water carried in the range O to 50°C (depending on the kind of pumps installed).
Ambient operating temperature in the range O to 40°C at an altitude of no more than 1,000 m above sea level.
Relative humidity max. 50% at +40°C.
NB: it is worth remembering that suction lift (installations with liquid source lower than pump) decreases as altitude and temperature increase. These characteristics, based on the pump's NPSH, must be allowed for when sizing the system so as to avoid problems such as cavitation or insufficient efficiency: the NPSH available in the system must be greater then the NPSH required of the pump. For applications with other technical specifications, uses, climatic conditions (the kind of liquid carried, marine environment, aggressive industrial environment), ask our technical department for help.

CABINET BOOSTER

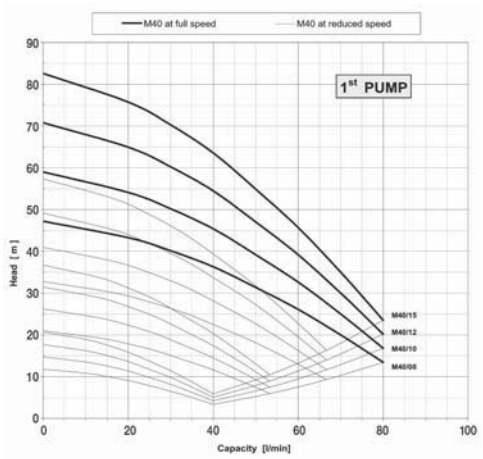
INNOVATIVE SINGLE-PHASE BOOSTER SET (INVERTER CONTROL)

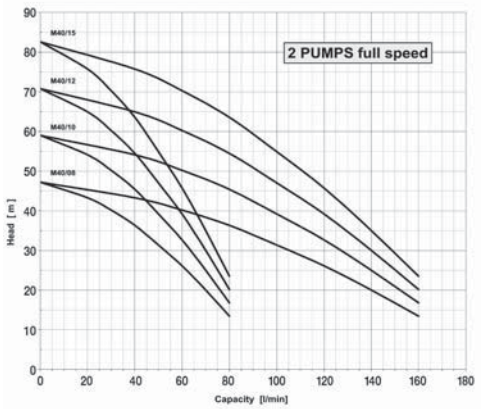
The CABINET BOOSTER is the innovative constant pressure booster set for civil and industrial uses, fitted with EBARA pumps (Multigo series) and pipe-work all in stainless steel.
It is set to revolutionize booster set applications and system solutions and results in a more centralized and more compact system, in comparison with common booster units. Suitable for domestic water supply, pumping water or increasing pressure in general, horticultural irrigation and small industrial water supply systems, in particular for Building Service applications.
The CABINET BOOSTER is suitable for wall mounting, flush mounting within a wall space, or floor mounting.

The Booster unis has two pumps in parallel (EBARA MULTIGO version), in which the first pump is supplied via a frequency converter (HETZ ONE inverter), the second pump runs at full motor speed. The two pumps, the hydraulic components (fittings, pressure gauge, isolating and non-return valves, expansion vessel), the anchorage system and the control panel, are all contained within the steel cabinet.

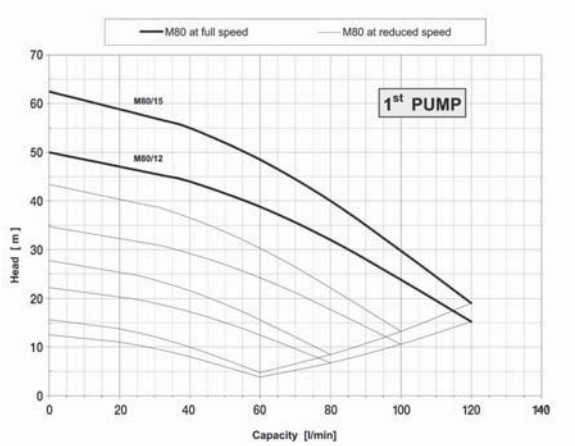
- Environment: inside, however covered, civil and industrial local
- Ambient temperature: 0÷40°C
- Relative humidity: 50% a 40°C max (90% a +20°C)
- Temperature of conveyed water: 0÷35°C according to EN 60335-2-1-41 for domestic use, 0÷40°C for others use.
- Installations: wall mounting, flush mounting within a wall space, or floor mounting.
- Anchorage: with foundation bolts, through the support feet, (anti-vibration dampers on request), floor anchorage in concrete
- Hydraulic connections: 1½" pipe or fittings, for both suction and discharge
- Reference standard: machinery directive 98/37/EEC

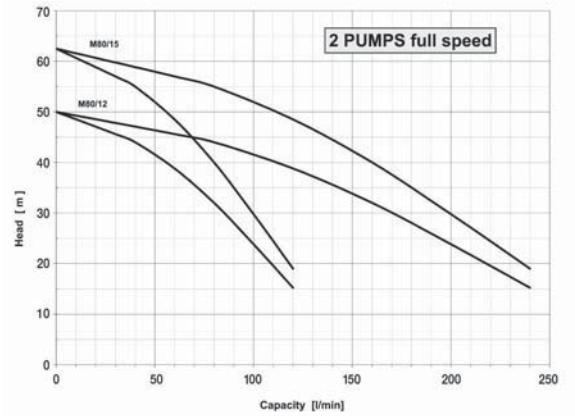
PERFORMANCE CURVES: 40 SERIES (1 and 2 pumps)



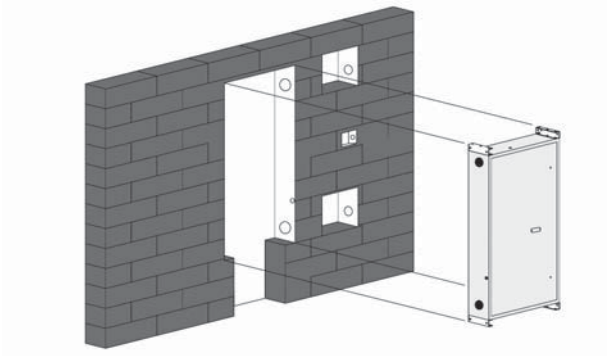


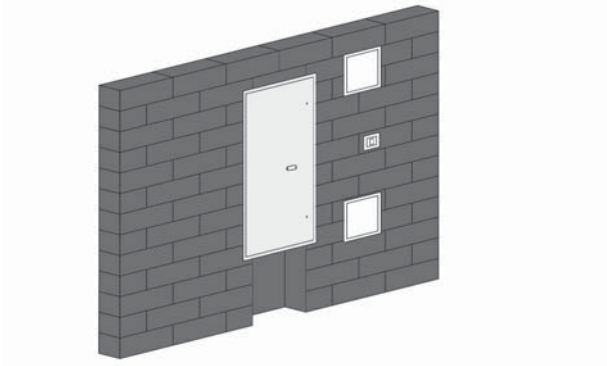
PERFORMANCE CURVES: 80 SERIES (1 and 2 pumps)



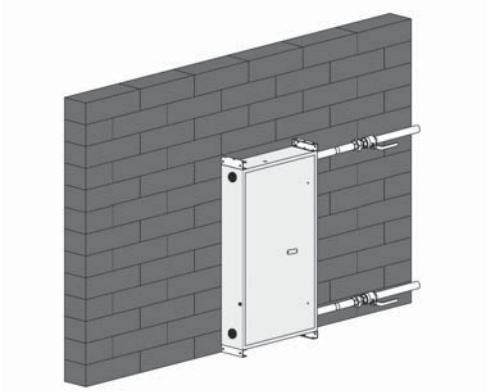


WALL BUILT-IN VERSION





ANCHORAGE TO THE FLOOR/WALL



HERTZ ONE

The new HERTZ ONE control box is an automatic device for the control of single or three phase centrifugal electropumps equipped with induction motor. Supply of the control box is only single phase.
It's designed to adjust the speed of centrifugal pumps through an inverter (electronic frequency converter) that supplies their motor.
Pump capacity and head vary according to the speed of rotation hence offering best efficiency for a wide range of operating conditions.

SP series

The new SP products are control boxes for pumps with a new system controller.
The System Controller control board comes with a new software introducing the following additional features:

- Protection against dry running without any need for special sensors. It uses the System signals and the software parameters.
- Control on constant flow features;
- Real time reading of alarms on the group;
- Customisable pump maintenance indicator;
- Alarm remote management;
- Customisable starting sequence of the pump.

Moreover Ebara offes a large range of control boxes:

- EPBH series
- Q series
- 1 EP SD series
- 1 EP T AR MF series
- 2 EP M UA E series
- 2 EP T UA series
- 2 EP SD UA series
- 2 EP M AR MF series
- 2 EP T AR MF series
- 2 EP SD AR MF series
- 3 EP T UA series

LOAD LOSSES TABLE

Load losses (Pc) in meters (column of water)
Flow rate (V m/s).

Capacity		Internal diameter (mm)																									
m³/h		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	600	700	800	900	1000
3	Pc %	17			0,54	0,25	0,13	0,06	0,03	0,02																	
	Vm/s	1,70			0,43	0,29	0,22	0,16	0,13	0,10																	
6	Pc %		24			0,9	0,43	0,21	0,13	0,08	0,026																
	Vm/s		2,06			0,58	0,44	0,32	0,26	0,20	0,13																
9	Pc %			12,5			0,9	0,46	0,25	0,15	0,06																
	Vm/s			2,08			0,65	0,5	0,39	0,32	0,20																
12	Pc %			20			1,5	0,75	0,44	0,25	0,09	0,03															
	Vm/s			2,76			0,88	0,67	0,53	0,43	0,27	0,18															
15	Pc %				12			1,25	0,7	0,42	0,15	0,06															
	Vm/s				2,2			0,87	0,66	0,54	0,34	0,24															
18	Pc %				17			1,7	1	0,6	0,2	0,08															
	Vm/s				2,64			1	0,78	0,64	0,4	0,28															
21	Pc %				22	8,8			1,3	0,75	0,26	0,1	0,05														
	Vm/s				3,35	2,08			0,93	0,75	0,48	0,32	0,24														
24	Pc %					12			1,7	1	0,36	0,14	0,07														
	Vm/s					2,38			1,06	0,86	0,54	0,36	0,28														
27	Pc %					14	7			1,25	0,42	0,17	0,08														
	Vm/s					2,7	1,97			0,96	0,6	0,42	0,31														
30	Pc %					17	8,2			1,5	0,5	0,2	0,09														
	Vm/s					2,98	2,2			1,08	0,68	0,48	0,34														
36	Pc %					25	12	6,3			0,75	0,3	0,14	0,07													
	Vm/s					3,58	2,63	2			0,82	0,57	0,42	0,32													
42	Pc %						16	8,5			0,85	0,33	0,18	0,08													
	Vm/s						3,07	2,34			0,96	0,66	0,48	0,37													
48	Pc %						21	10	6			0,45	0,22	0,12	0,06												
	Vm/s						3,51	2,68	2,12			0,72	0,56	0,43	0,34												
54	Pc %						25	13,5	7,6			0,55	0,28	0,14	0,08												
	Vm/s						3,94	3	2,34			0,84	0,63	0,48	0,38												
60	Pc %							16	9			0,7	0,33	0,17	0,1												
	Vm/s							3,32	2,64			0,96	0,68	0,53	0,42												
75	Pc %							24	14	8			0,49	0,24	0,14	0,08											
	Vm/s							4,17	3,31	2,68			0,87	0,67	0,53	0,43											
90	Pc %								20	12,5			0,74	0,36	0,2	0,14	0,08										
	Vm/s								3,97	3,24			1,02	0,8	0,63	0,51	0,42										
105	Pc %								26	16,5			0,9	0,47	0,27	0,16	0,1										
	Vm/s								4,6	3,74			1,22	0,93	0,74	0,59	0,49										
120	Pc %									21,5	6,9			0,61	0,36	0,2	0,14	0,08									
	Vm/s									4,31	2,72			1,06	0,84	0,68	0,56	0,47									
135	Pc %									26	9			0,76	0,45	0,25	0,17	0,1									
	Vm/s									4,81	1,07			1,19	0,95	0,76	0,63	0,53									
150	Pc %										11	4			0,55	0,3	0,21	0,12	0,06								
	Vm/s										3,44	2,36			1,05	0,86	0,70	0,59	0,43								
165	Pc %										13	4,7			0,65	0,37	0,24	0,15	0,08								
	Vm/s										3,75	2,61			1,15	0,94	0,77	0,65	0,48								
180	Pc %										15,2	5,5			0,76	0,43	0,29	0,18	0,09								
	Vm/s										4,09	2,83			1,26	1,02	0,84	0,71	0,52								
210	Pc %										21	7,4	3,5			0,6	0,37	0,24	0,12	0,06							
	Vm/s										4,70	3,32	2,43			1,19	0,98	0,82	0,61	0,47							
240	Pc %											9,4	4,3	2,3			0,48	0,3	0,15	0,08							
	Vm/s											3,78	2,77	2,12			1,12	0,95	0,69	0,53							
270	Pc %											12	5,5	2,8			0,58	0,35	0,18	0,09							
	Vm/s											4,26	3,13	2,39			1,26	1,07	0,78	0,59							
300	Pc %											14	7,5	3,4	2			0,46	0,22	0,11	0,07						
	Vm/s											4,75	3,47	2,66	2,10			1,18	0,86	0,67	0,53						
360	Pc %												9	4,7	2,8			0,65	0,32	0,16	0,09	0,05					
	Vm/s												4,15	3,17	2,53			1,41	1,04	0,79	0,63	0,51					
420	Pc %												11,6	6,2	3,5	2			0,41	0,21	0,12	0,07	0,03				
	Vm/s												4,86	3,72	2,94	2,37			1,22	0,94	0,76	0,59	0,41				
480	Pc %													8,5	4,9	2,9	1,9			0,3	0,17	0,09	0,04				
	Vm/s													4,24	3,36	2,72	2,24			1,06	0,84	0,69	0,47				
540	Pc %													11	6,5	3,7	2,35			0,38	0,22	0,12	0,05				
	Vm/s													4,78	3,80	3,06	2,52			1,19	0,94	0,76	0,53				
600	Pc %													12,2	7,4	4,3	2,7	1,7			0,25	0,13	0,055	0,024			
	Vm/s													5,30	4,20	3,40	2,81	2,36			1,06	0,86	0,61	0,44			
660	Pc %														9	5,2	3,3	2,1			0,3	0,16	0,06	0,03			
	Vm/s														4,61	3,76	3,07	2,59			0,15	0,93	0,65	0,48			
720	Pc %														10	6	3,8	2,5			0,35	0,19	0,075	0,035			
	Vm/s														5,05	4,08	3,37	2,84			1,26	1,02	0,71	0,52			
780	Pc %															7,3	4,5	3	1,5			0,23	0,08	0,04			
	Vm/s															4,43	3,65	3,08	2,26			1,11	0,77	0,56			
840	Pc %															8	5,4	3,4	1,7			0,26	0,1	0,047			
	Vm/s															4,76	3,95	3,31	2,43			1,19	0,83	0,61			
900	Pc %															9	5,8	3,75	1,9			0,29	0,11	0,053			
	Vm/s															5,1	4,22	3,54	2,60			1,27	0,88	0,65			
960	Pc %																6,5	4,3	2,1	1,1			0,12	0,06			
	Vm/s																4,49	3,78	2,77	2,13			0,95	0,70			
1020	Pc %																7,2	4,6	2,45	1,2			0,14	0,065	0,033		
	Vm/s																4,76	4,01	2,94	2,26			1,00	0,77	0,54		
1080	Pc %																	5,4	2,8	1,4			0,16	0,073	0,037		
	Vm/s																	4,26	3,12	2,38			1,06	0,78	0,57		
1140	Pc %																	6	3,2	1,53			0,175	0,08	0,043	0,037	
	Vm/s																	4,49	3,29	2,53			1,12	0,84	0,61	0,52	
1200	Pc %																	6,5	3,4	1,7			0,19	0,09	0,046	0,04	0,025
	Vm/s																	4,72	3,45	2,68			1,23	0,88	0,63	0,54	0,4

Discharge diameter

Suction diameter

DET NORSKE VERITAS

QUALITY MANA… …T SYSTEM CERTIFICATE

Certificato No. … *SINCERT*

IL SISTEMA DI GESTI… …*STEM OF*

(Rif…

È CONFORME AI … …*LA QUALITÀ CON…* …*RD*

Q… …*VO:*

(Ulteriori chiarimenti rigu… …*ando l'organizzazione certificata)*
(Further clarifications regardi… …*by consulting the certified organisation)*

Progettazione, … …***e sistemi di pompaggio***

De… …*mping systems*

Luogo e data
Place and date
Agrate Brianza, (MI) 2006-10-13

Lead Auditor: BENEDETTO CIAMPA

Settore EA: 18 - 17

SINCERT
ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SQQ Registrazione N. 003A
SGA Registrazione N. 003D
PRD Registrazione N. 003B

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

per l'Organismo di Certificazione
for the Accredited Unit
Det Norske Veritas Italia S.r.l.

Vittore Marangon
Management Representative

La validità del presente certificato è subordinata a sorveglianza periodica (ogni 6, 9 o 12 mesi) e al riesame completo del sistema con periodicità triennale
The validity of this certificate is subject to periodical audits (every 6, 9 or 12 months) and the complete re-assessment of the system every three years
Le aziende in possesso di un certificato valido sono presenti nella banca dati sul sito www.dnv.it e sul sito Sincert (www.sincert.it) – All the companies with a valid certificate are online at the following addresses: www.dnv.it and www.sincert.it

DET NORSKE VERITAS
QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERT-17819-2006-AQ-VEN-SINCERT**

Si attesta che / This certifies that

Ebara Pumps Europe S.p.A.

(Riferimento al Supplemento "A" / Refer to Supplement "A")

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI / THE QUALITY MANAGEMENT SYSTEM OF

È CONFORME AI REQUISITI DELLA NORMA PER I SISTEMI DI GESTIONE PER LA QUALITÀ
CONFORMS TO THE QUALITY MANAGEMENT SYSTEMS STANDARD

UNI EN ISO 9001:2000 (ISO 9001:2000)

Questa certificazione è valida per il seguente campo applicativo:
This certificate is valid for the following products or services:

(Ulteriori chiarimenti riguardanti lo scopo e l'applicabilità dei requisiti della normativa si possono ottenere consultando l'organizzazione certificata)
(Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by consulting the certified organisation)

Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio

Design, manufacture, sales and trade of pumps and pumping systems

Luogo e data
Place and date
Agrate Brianza, (MI) 2006-10-13

Lead Auditor: BENEDETTO CIAMPA

Settore EA: 18 - 17

SINCERT
ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

per l'Organismo di Certificazione
for the Accredited Unit
Det Norske Veritas Italia S.r.l.

Vittore Marangon
Management Representative

La validità del presente certificato è subordinata a sorveglianza periodica (ogni 6, 9 o 12 mesi) e al riesame completo del sistema con periodicità triennale
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prima

Note

Note

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Cles (TN) - Italy

Haneda (Japan)

Fujisawa (Japan)

Sodegaura (Japan)

Principal EBARA Group Companies in the world

Ebara Corporation - Japan
(45 Companies)

Ebara Pumps Europe SpA - Italy
Ebara America Corporation (EAC) - USA
Ebara International Corporation - USA
Burton Mechanical Contractors, Inc. - USA
Ebara Technologies Inc. - USA
Ebara Environmental Corporation - USA
E & M Energy, Inc. - USA
Matsuzaka Company (America), Inc. - USA
Ebara Indústrias Mecánicas e Comércio Ltda. - Brasil
Ebara Engineering Singapore Pte. Ltd. - Singapore
Ebara Kailay Environmental Eng. Co. Ltd. - Taiwan
Ebara Densan Taiwan Manufacturing Co., Ltd. - Taiwan
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Ebara (Thailand) Limited. - Thailand
Ying Kou Ebara Co, Ltd. - China
Ebara Qingdao Co, Ltd. - China
Ebara Precision Machinery Korea Incorporated - Korea
Ebara Engineering (Malaysia) Sdn. Bhd. - Malaysia
P.T. Ebara Indonesia - Indonesia
Kirloskar Ebara Pumps Ltd. - India
Hyosung-Ebara Company Ltd. - Korea
Ebara Iran - Iran
Ebara Middle East - U.A.E.

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