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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

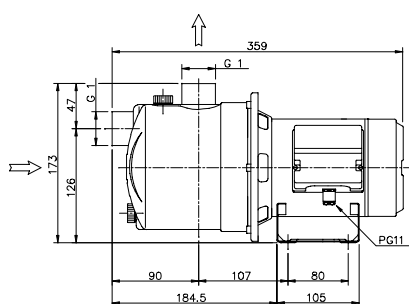
- Maximum working pressure: 6 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
45°C for other uses

### MATERIALS

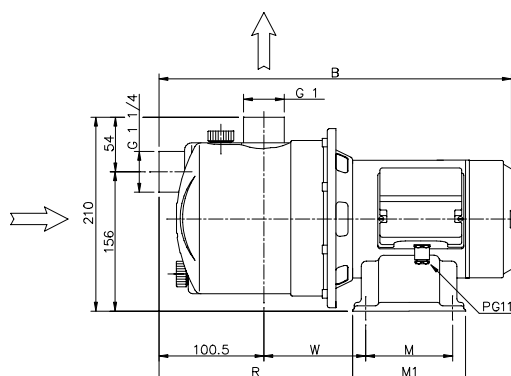
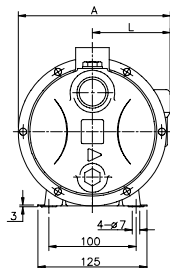
- Pump body, bracket, casing cover, motor casing and fan cover in AISI 304
- Shaft in AISI 303
- Impeller in AISI 304 for JE, in tecnopolymer for JES
- Mechanical seal in carbon/ceramic/NBR

### TECHNICAL DATA

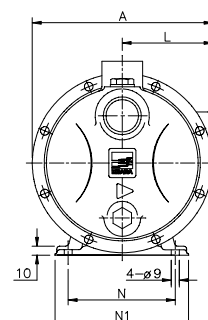
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$ 10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA 1" for JES, 1 1/4" for JE
- DNM 1"



JES



JE

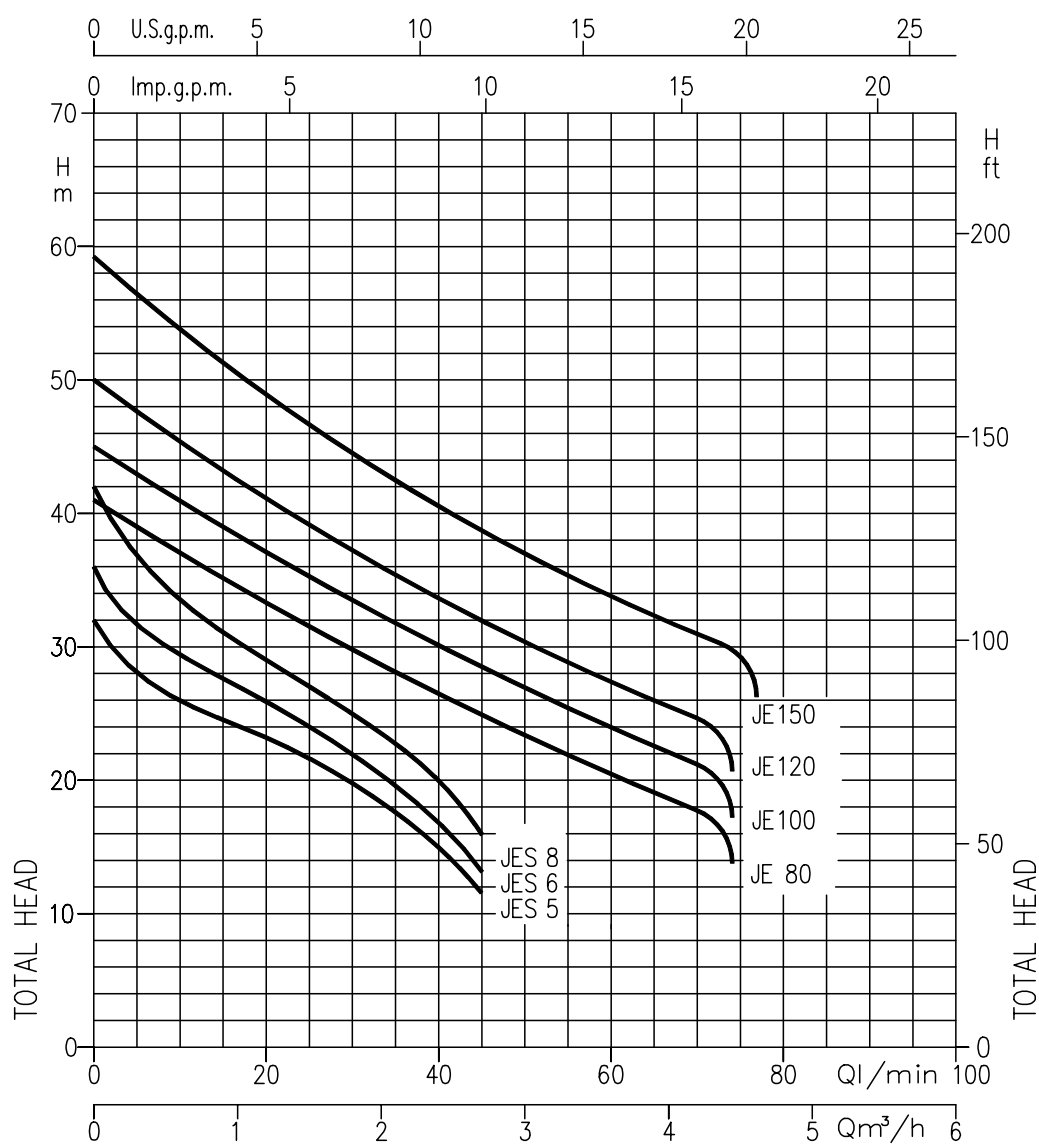


### DIMENSIONAL TABLES

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 m³/h	Q=Capacity									
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		H=Total head									
									5	20	30	40	45	50	60	70	75	
									0,3	1,2	1,8	2,4	2,7	3	3,6	4,2	4,5	
JESM 5	JES 5	0,37	10	450	2,1	1,5	0,85		28	23	20	15	11,5	-	-	-	-	
JESM 6	JES 6	0,44	10	450	2,4	1,9	1,1		31,5	26	22	17	13,5	-	-	-	-	
JESM 8	JES 8	0,6	12,5	450	3,0	2,25	1,3		37	29	25	20	16	-	-	-	-	
JEM 80	JE 80	0,6	16	450	4,7	3,3	1,9		39	33	29	26,5	25	23,5	20,5	18	-	
JEM 100	JE 100	0,75	20	450	6,4	4,5	2,6		43	37	33,5	30	28	27	24	21	-	
JEM 120	JE 120	0,88	20	450	6,7	4,7	2,7		47,5	41	37	34	32	30,5	27,5	24,5	-	
JEM 150	JE 150	1,1	31,5	450	7,6	5,6	3,3		56	49	44,5	40,5	38,5	37	34	31	29,5	

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

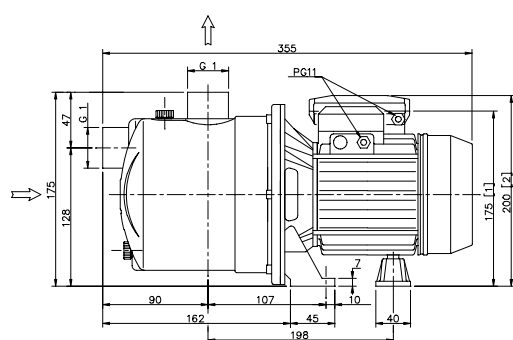
- Maximum working pressure: 6 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
60°C for other uses

### MATERIALS

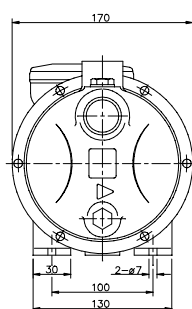
- Pump body, casing cover in AISI 304
- Shaft in AISI 303
- Impeller in AISI 304 for JEX, in tecnopolymer for JESX
- Mechanical seal in carbon/ceramic/NBR

### TECHNICAL DATA

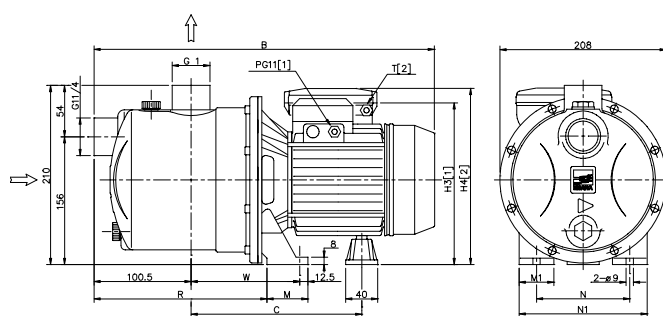
- Asynchronous 2 poles motor
- Insulation class F
- Protection degree IP54
- 1~230V  $\pm 10\%$  50Hz, 3~230/400V  $\pm 10\%$  50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA 1" for JESX, 1 1/4" for JEX
- DNM 1"



JESX



JEX



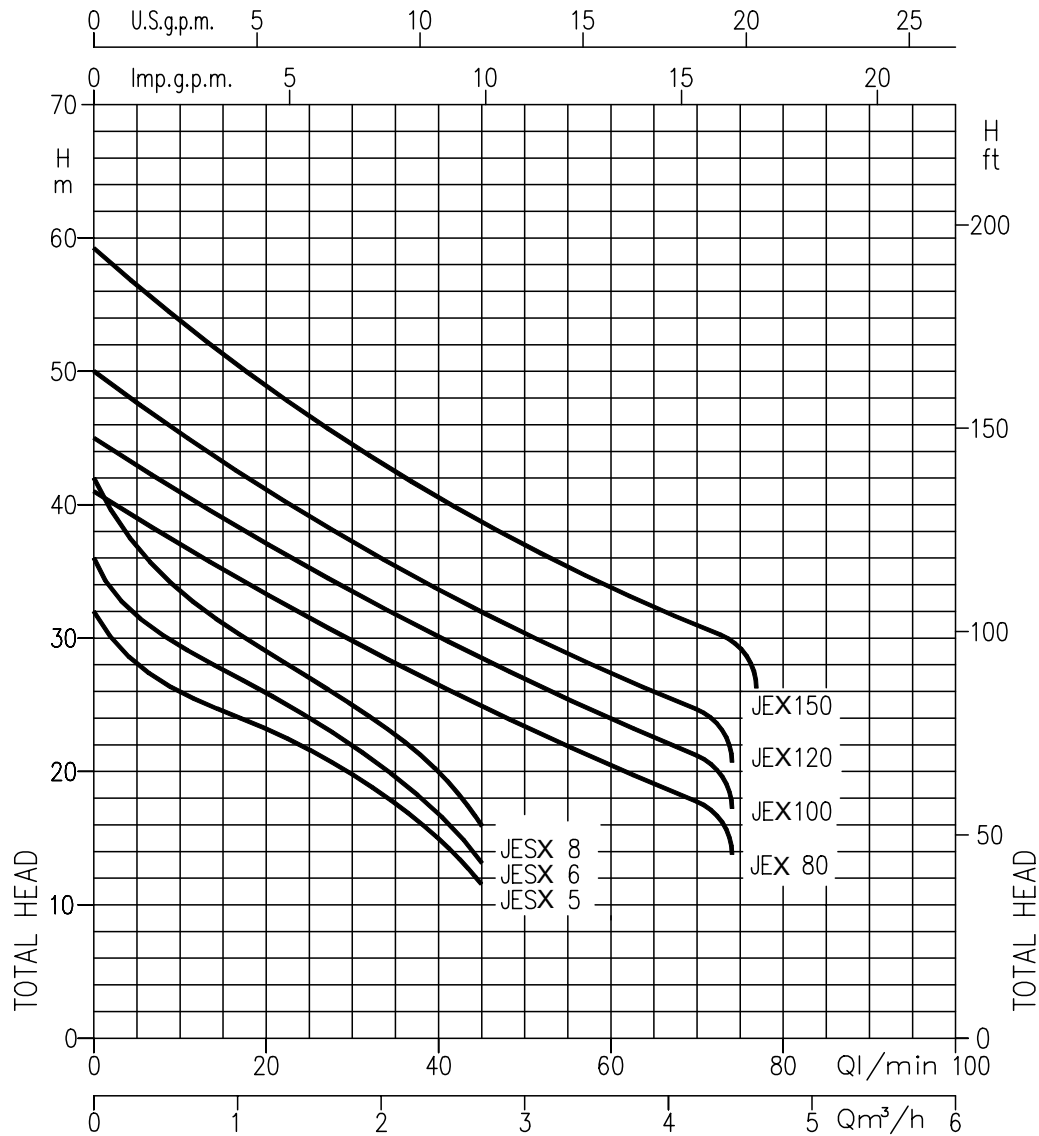
[1] : 3 ~  
[2] : 1 ~

### DIMENSIONAL TABLE

Pump type		Dimensions (mm)											Weight kg
		B	C	H3	H4	M	M1	N	N1	R	T	W	
Single-phase	Three-phase												
JEXM 80	JEX 80	417	230	206	215	50	38	120	160	206	PG11	143	10,5
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 kg
Single-phase	Three-phase	
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 m³/h	Q=Capacity									
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		H=Total head									
JESXM 5	JESX 5	0,37	10	450	2,1	1,5	0,85		5	20	30	40	45	50	60	70	75	
JESXM 6	JESX 6	0,44	10	450	2,4	1,9	1,1		0,3	1,2	1,8	2,4	2,7	3	3,6	4,2	4,5	
JESXM 8	JESX 8	0,6	12,5	450	3,0	2,3	1,3		28	23	20	15	11,5	-	-	-	-	
JEXM 80	JEX 80	0,6	16	450	4,7	3,3	1,9		31,5	26	22	17	13,5	-	-	-	-	
JEXM 100	JEX 100	0,75	20	450	6,4	4,5	2,6		37	29	25	20	16	-	-	-	-	
JEXM 120	JEX 120	0,88	20	450	6,7	4,7	2,7		39	33	29	26,5	25	23,5	20,5	18	-	
JEXM 150	JEX 150	1,1	31,5	450	8,0	5,6	3,3		43	37	33,5	30	28	27	24	21	-	
									47,5	41	37	34	32	30,5	27,5	24,5	-	
									56	49	44,5	40,5	38,5	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

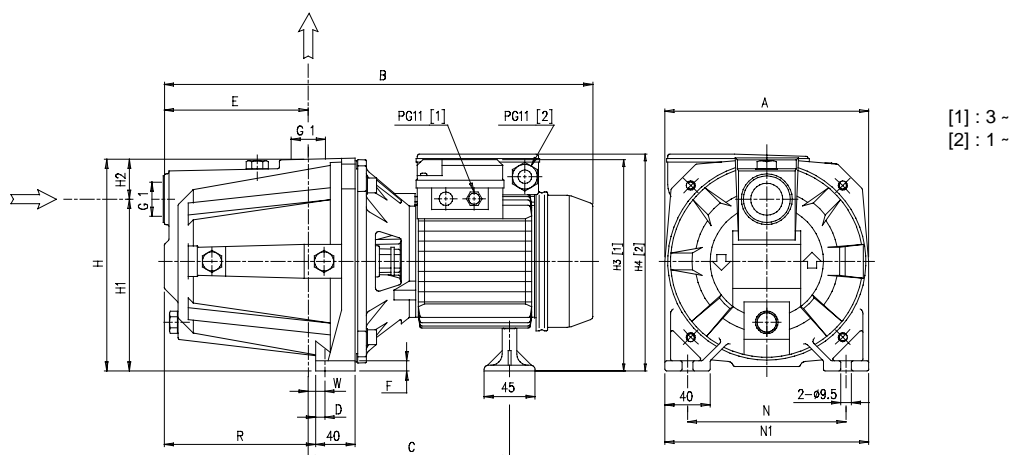
- Maximum working pressure: 6 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
45°C for other uses
- Maximum suction: 8 mts

### 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

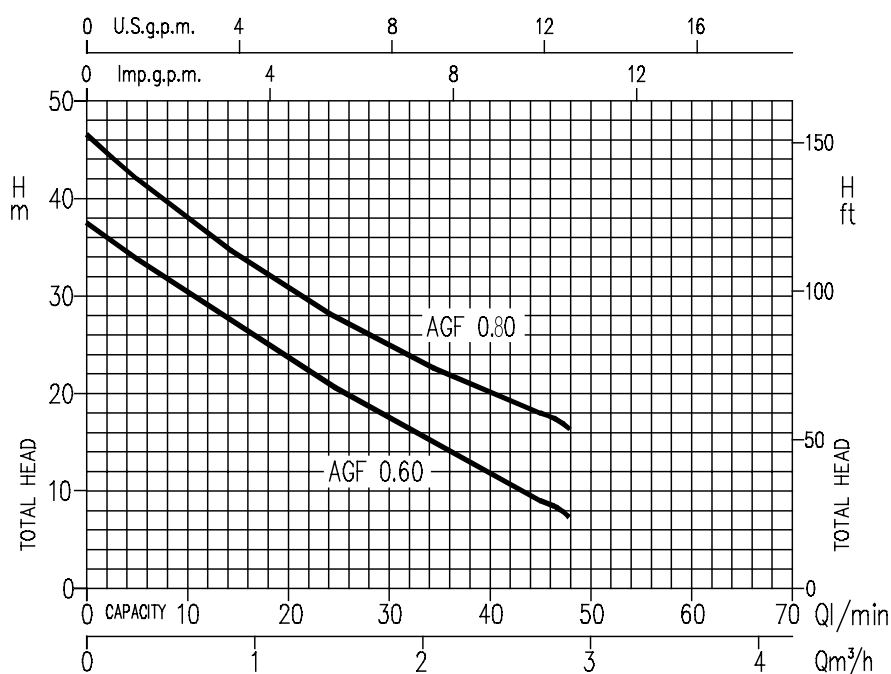
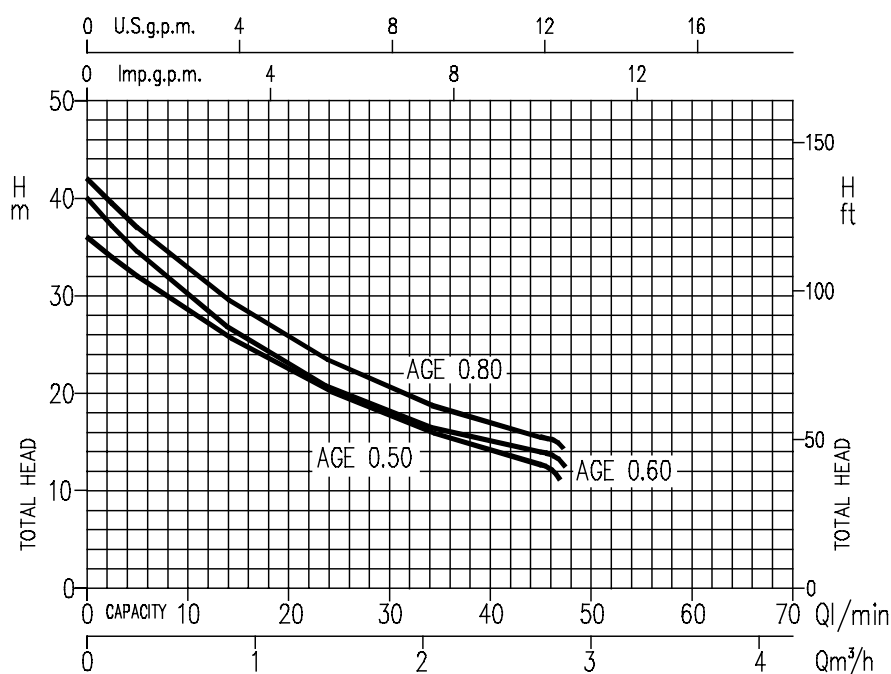
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA-DNM 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	17,3	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 m³/h	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	1~	230V	3~ 400V		5	10	20	30	40	45
									0,3	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

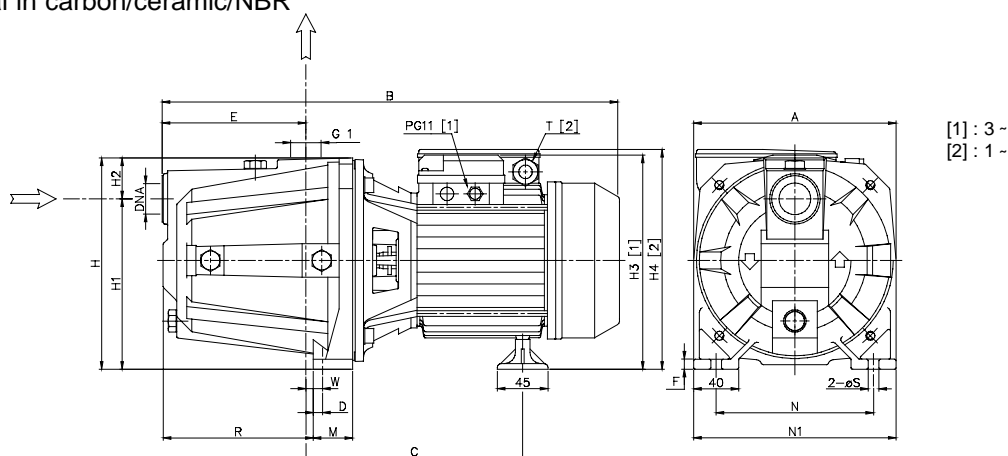
- Maximum working pressure:  
6 bar for AGA 0.60-0.75-1.00  
10 bar for the other models
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
45°C for other uses
- Maximum suction: 8 m

### 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  $\pm$  10% 50Hz, 3~230/400V  $\pm$  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
- DNA 1" for AGA 0.60-0.75-1.00
- DNA 1"  $\frac{1}{2}$  for the other models
- DNM 1"

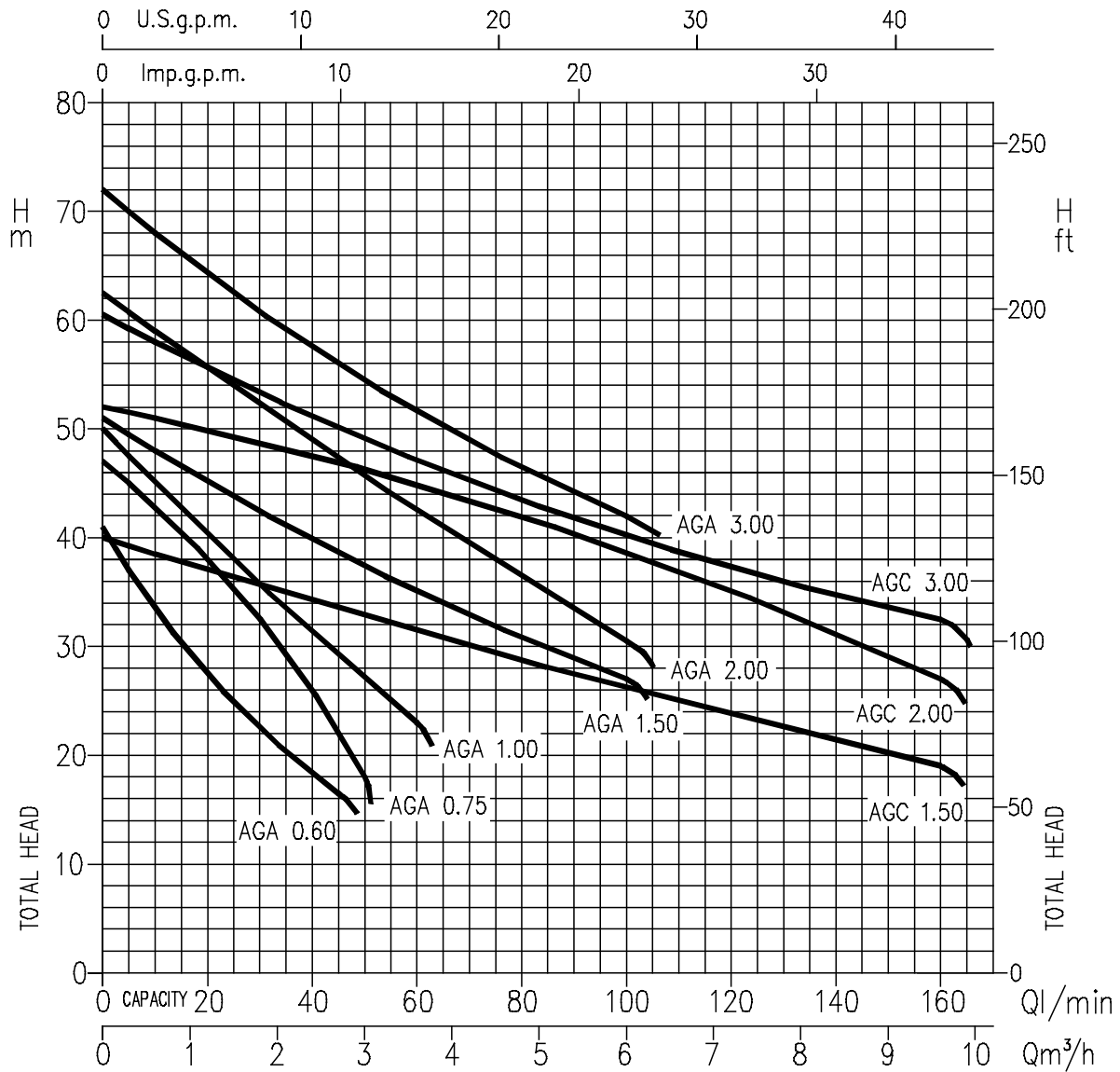


### DIMENSIONAL TABLE

Pump type		Dimensions (mm)																			Weight kg	
		A	B		C	D	E	F	H	H1	H2	H3	H4	M	N	N1	R	T	W	S		DNA
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		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity											
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc	Single-phase	Three-phase 230V      400V			5	10	20	30	45	50	60	80	100	130	160	
								H=Total head												
								0,3	0,6	1,2	1,8	2,7	3	3,6	4,8	6	7,8	9,6		
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		

## CENTRIFUGAL PUMPS - SINGLE IMPELLER in AISI 304

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



### SPECIFICATIONS

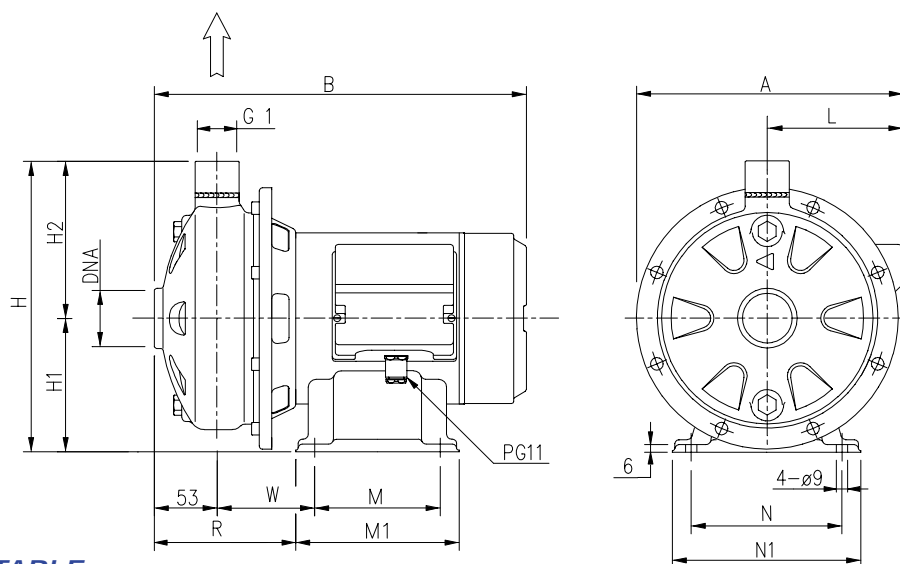
- Maximum working pressure: 8 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
60°C for other uses of CD 70/05-70/07-90/10  
90°C for other models

### MATERIALS

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

### TECHNICAL DATA

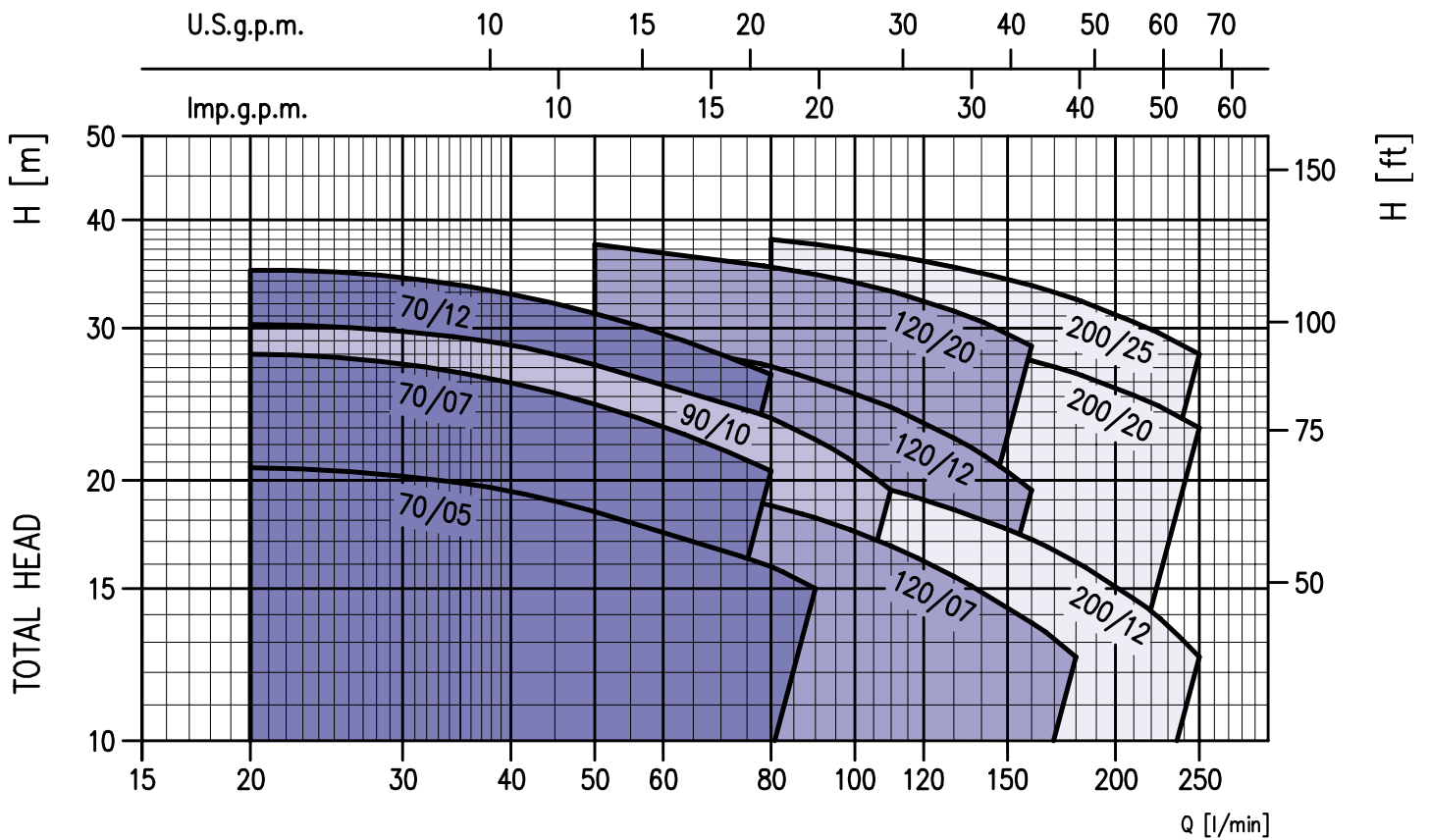
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA 1 $\frac{1}{2}$ " for CD200, DNA 1 $\frac{1}{4}$ " for the other models
- DNM 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	102	106	100	100	130	130	120	150	101	63	G 1 ¼	9,4
CDM 70/07	CD 70/07	210	206	298	229	106	123	102	106	100	100	130	130	120	150	101	63	G 1 ¼	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 ¼	14,1
CDM 90/10	CD 90/10	210	206	328	229	106	123	102	106	100	100	130	130	120	150	131	93	G 1 ¼	12,4
CDM 120/07	CD 120/07	210	206	298	229	106	123	102	106	100	100	130	130	120	150	101	63	G 1 ¼	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 ¼	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 ¼	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 ½	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 ½	16,7
	CD 200/25	-	226	366	250	118	132	-	110	-	120	-	150	140	170	138	100	G 1 ½	17,4

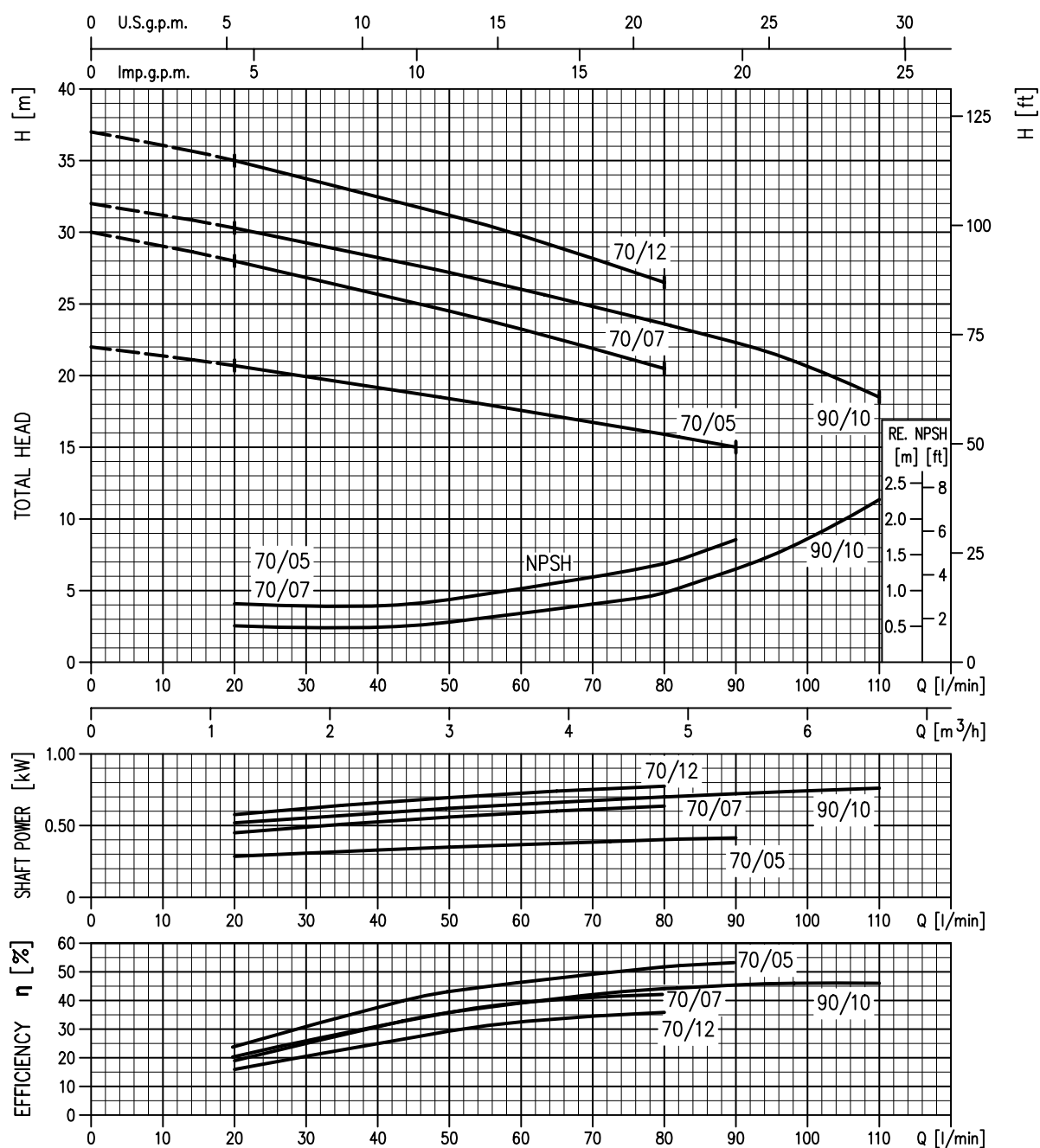
## PERFORMANCE CHART (according to ISO 9906 Annex A)



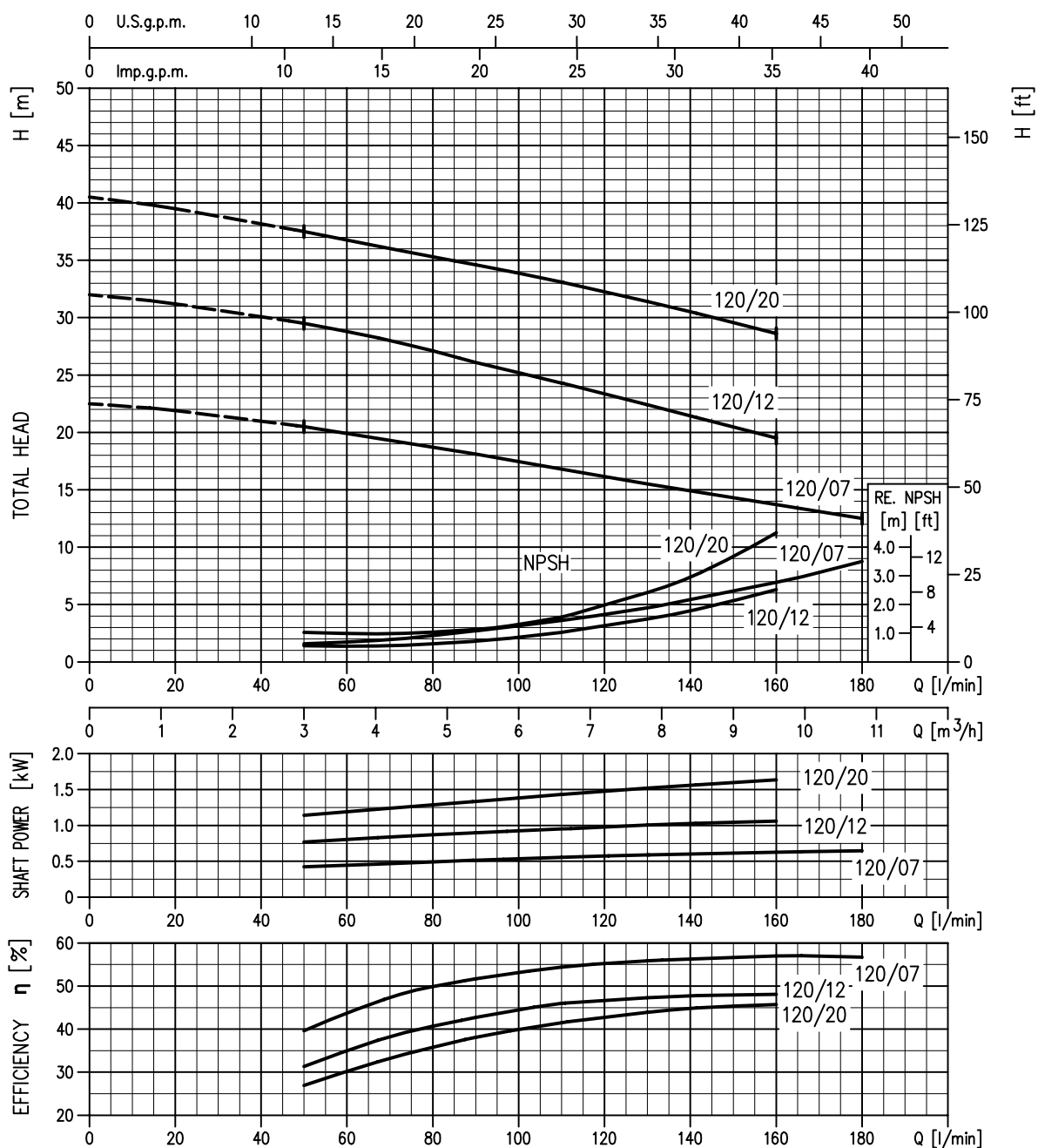
## PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity										
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20	50	80	90	110	130	160	180	210	250	
									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	-	

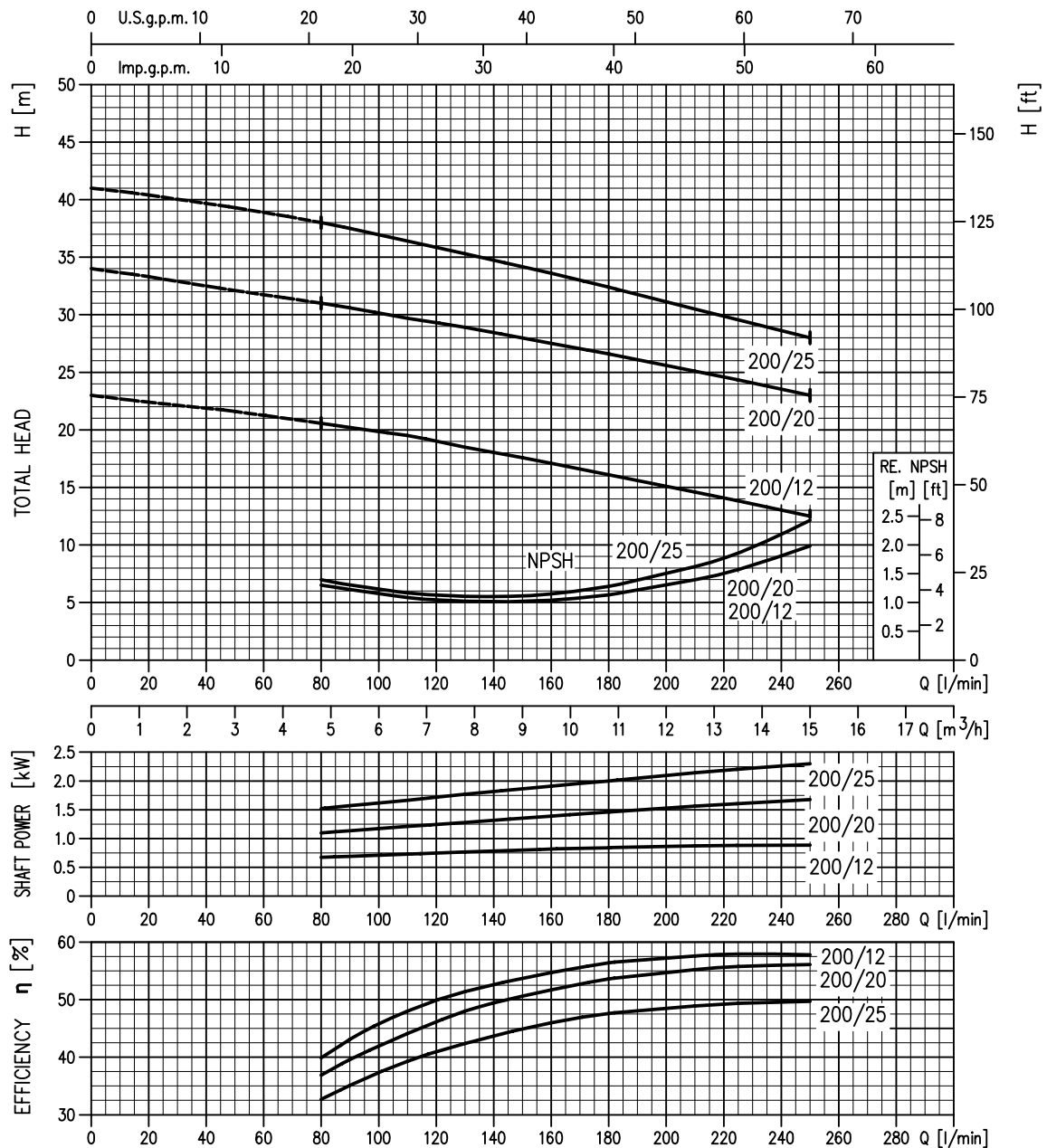
**PERFORMANCE CURVES CD 70-90 series** (according to ISO 9906 Annex A)



**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

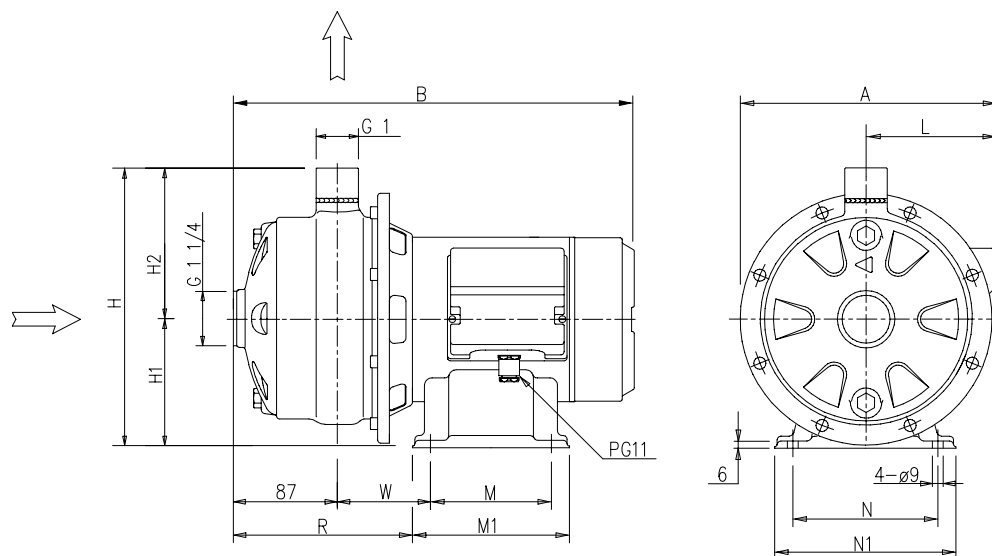
- Maximum working pressure: 8 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
60°C for other uses

### MATERIALS

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

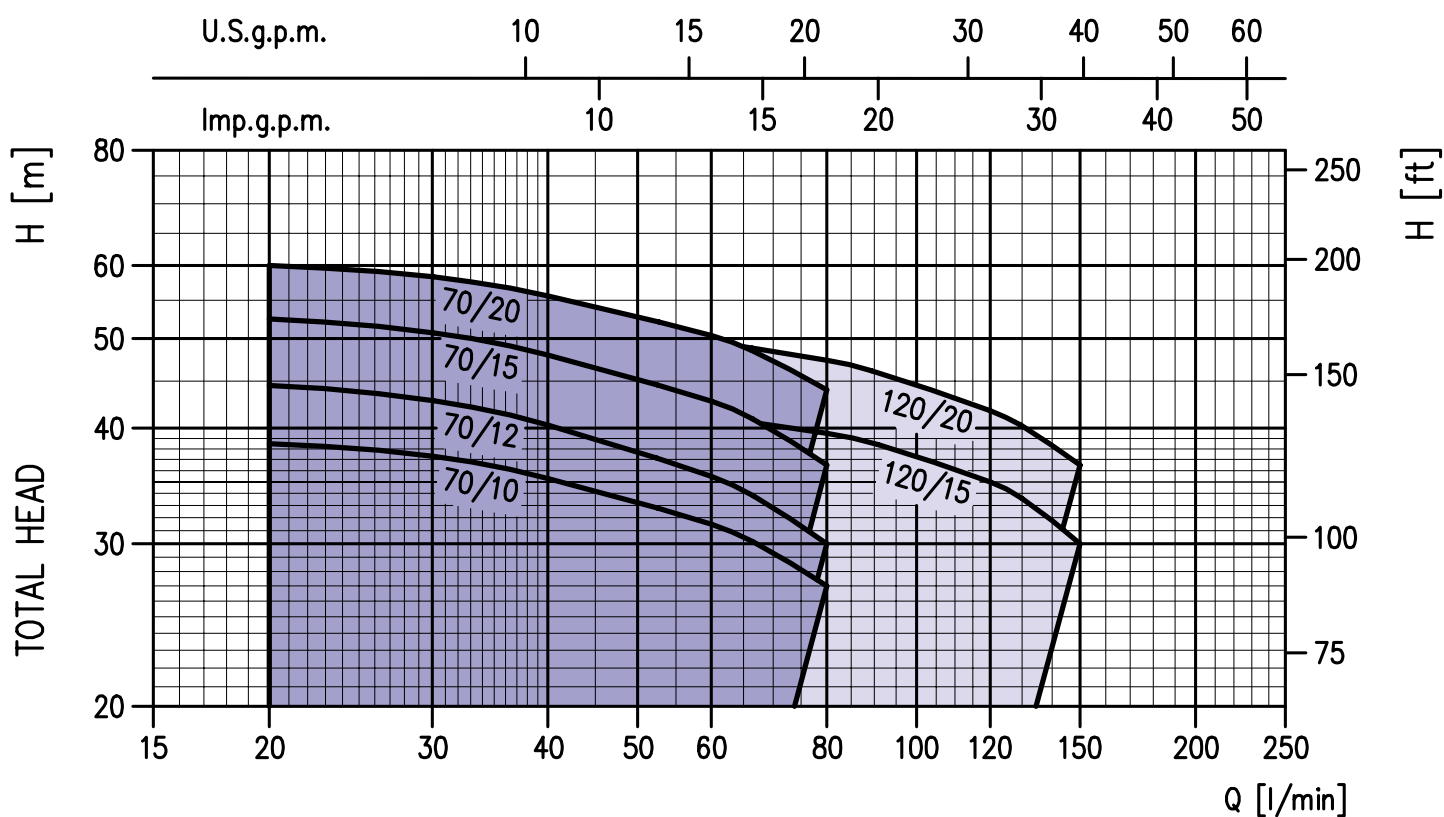
### TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  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
- DNM 1" - DNA 1 $\frac{1}{4}$ "



### DIMENSIONAL TABLE

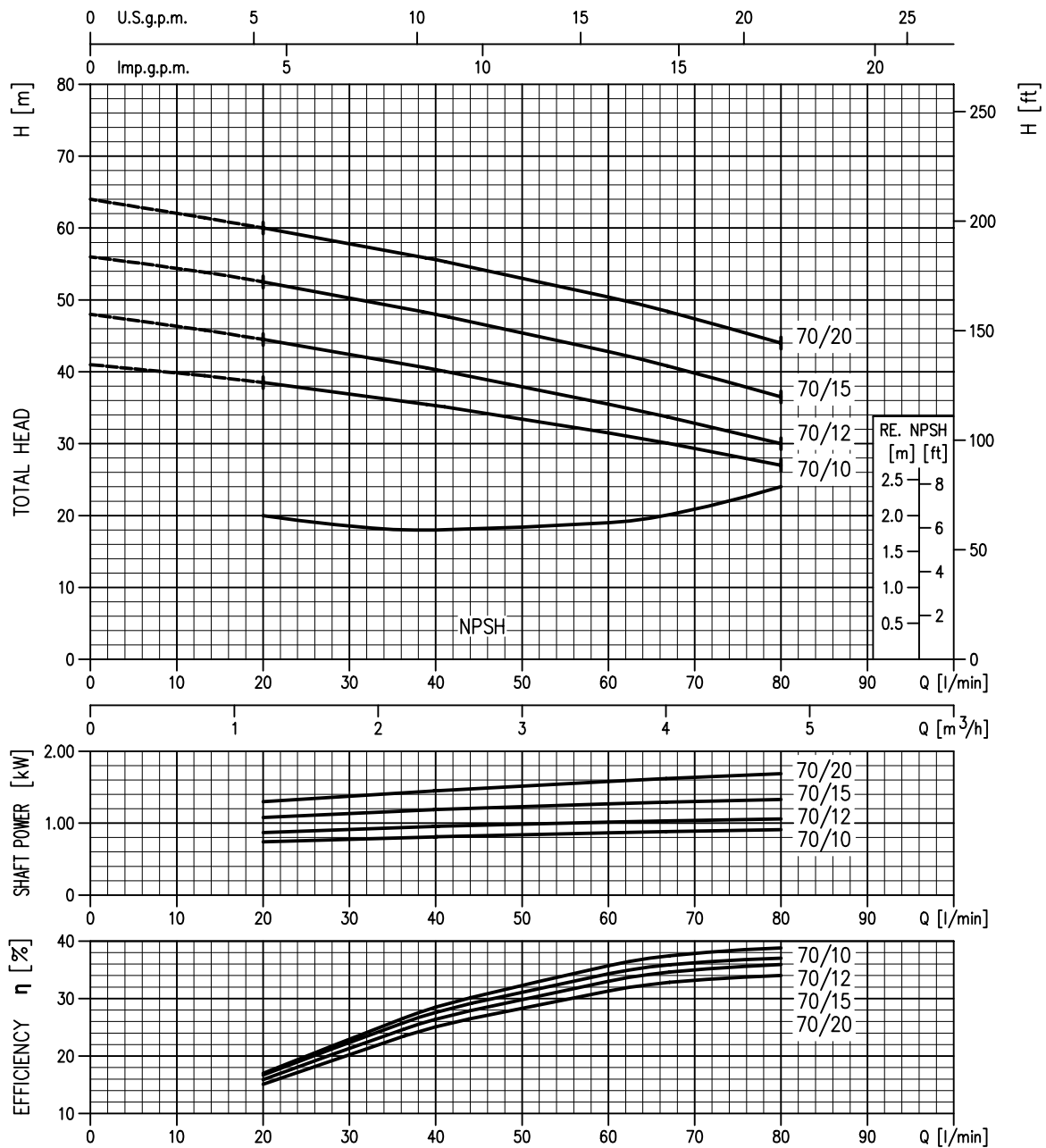
Pump type		Dimensions (mm)														Weight kg		
		A		B		H	H1	H2	L		M	M1	N	N1	R			W
Single-phase	Three-phase	1~	3~	1~	3~				1~	3~							1~	3~
2CDM 70/10	2CD 70/10	210	206	363	363	229	106	123	106	102	100	130	120	150	164	93	14	14
2CDM 70/12	2CD 70/12	206	206	363	363	229	106	123	102	102	100	130	120	150	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**

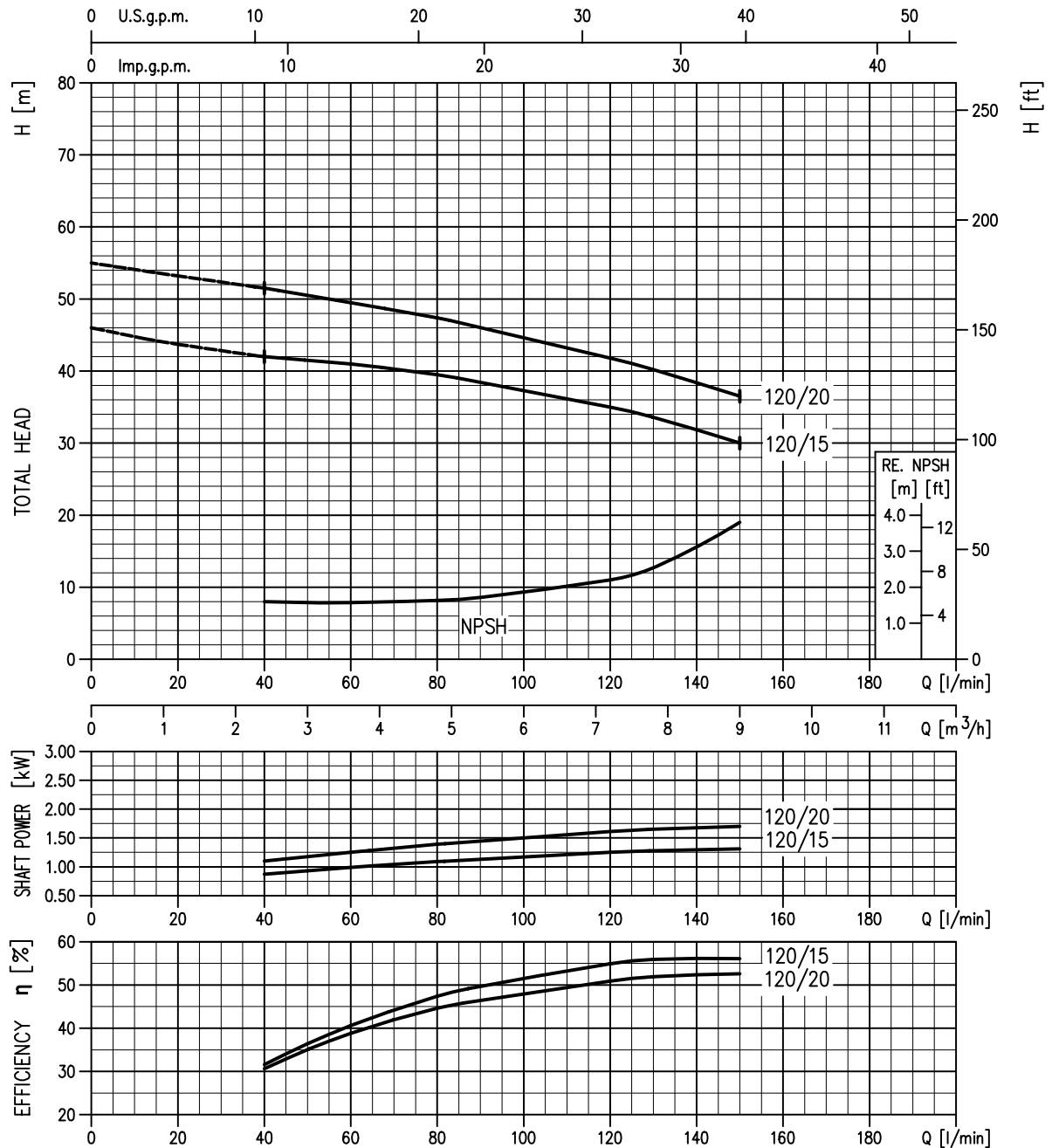
Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	Single-phase 230V	three-phase 230V	400V		20 1,2	40 2,4	60 3,6	80 4,8	120 7,2	150 9
H=Total head														
2CDM 70/10	2CD 70/10	0,75	20	450	5,8	4,0	2,3		38,5	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)



## CENTRIFUGAL PUMPS - SINGLE IMPELLER in AISI 304

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



### SPECIFICATIONS

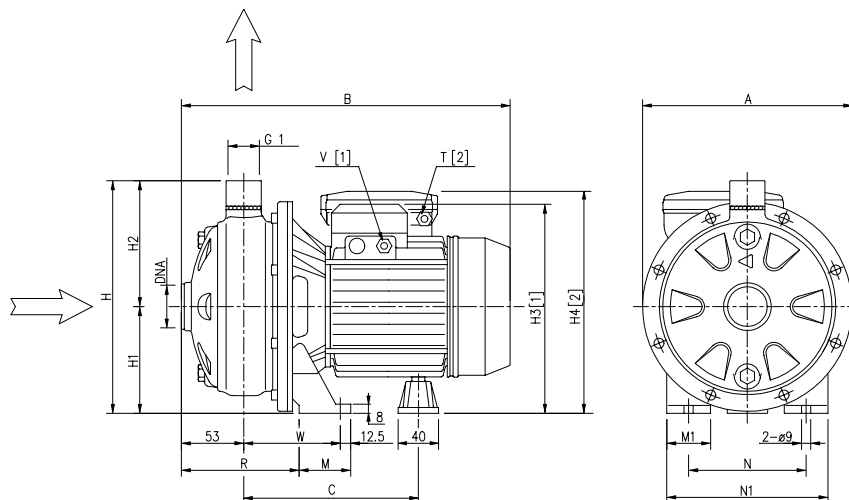
- Maximum working pressure: 8 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
60°C for other uses of CDX 70/05-70/07-90/10  
90°C for other models  
110° for H version

### MATERIALS

- Pump body, impeller, diffuser and casing cover in AISI 304
- Shaft in AISI 303
- Bracket and motor casing in aluminium
- Mechanical seal in carbon/ceramic/NBR
- Special mechanical seal are available on demand

### TECHNICAL DATA

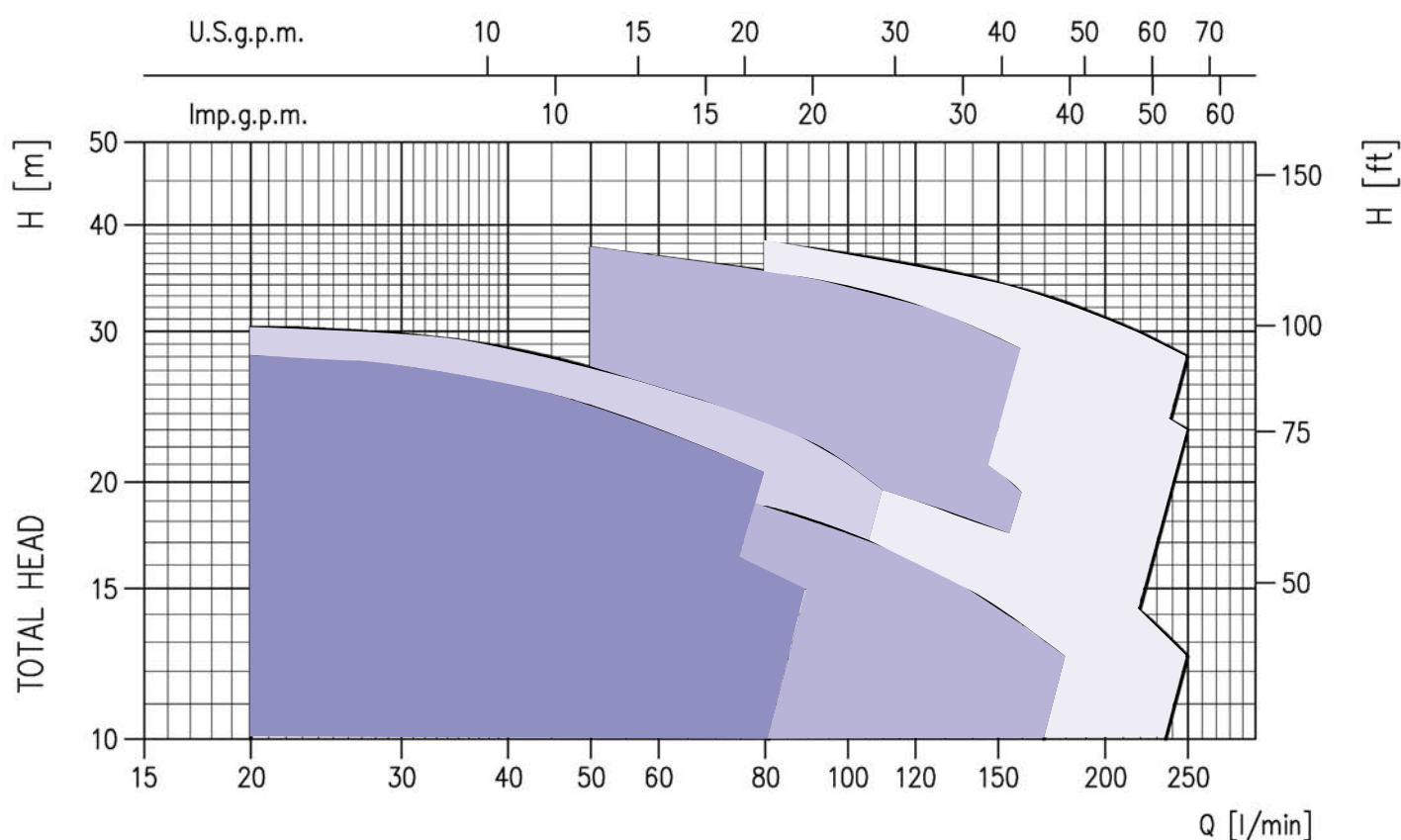
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA 1 $\frac{1}{2}$ " for CDX200, DNA 1 $\frac{1}{4}$ " for the other models
- DNM 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		1~	3~																
CDXM 70/05	CDX 70/05	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 $\frac{1}{4}$	9,1	9,1
CDXM 70/07	CDX 70/07	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 $\frac{1}{4}$	10,4	10,4
CDXM 90/10	CDX 90/10	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 $\frac{1}{4}$	11,9	11,9
CDXM 120/07	CDX 120/07	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG11	92,5	G 1 $\frac{1}{4}$	10,4	10,4
CDXM 120/12	CDX 120/12	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG13,5	92,5	G 1 $\frac{1}{4}$	12,5	12,5
CDXM 120/20	CDX 120/20	232	345	345	199	250	118	132	235	253	55	40	140	180	105,5	PG13,5	95	G 1 $\frac{1}{4}$	17,2	16,2
CDXM 200/12	CDX 200/12	208	318	318	178	229,5	106	123,5	209	215	50	38	120	160	108	PG13,5	92,5	G 1 $\frac{1}{2}$	16,3	11,4
CDXM 200/20	CDX 200/20	208	345	345	199	229,5	106	123,5	223	240	55	40	140	180	105,5	PG13,5	95	G 1 $\frac{1}{2}$	15,3	14,2
	CDX 200/25	232	-	345	199	250	118	132	235	-	55	40	140	180	105,5	-	95	G 1 $\frac{1}{2}$	-	17

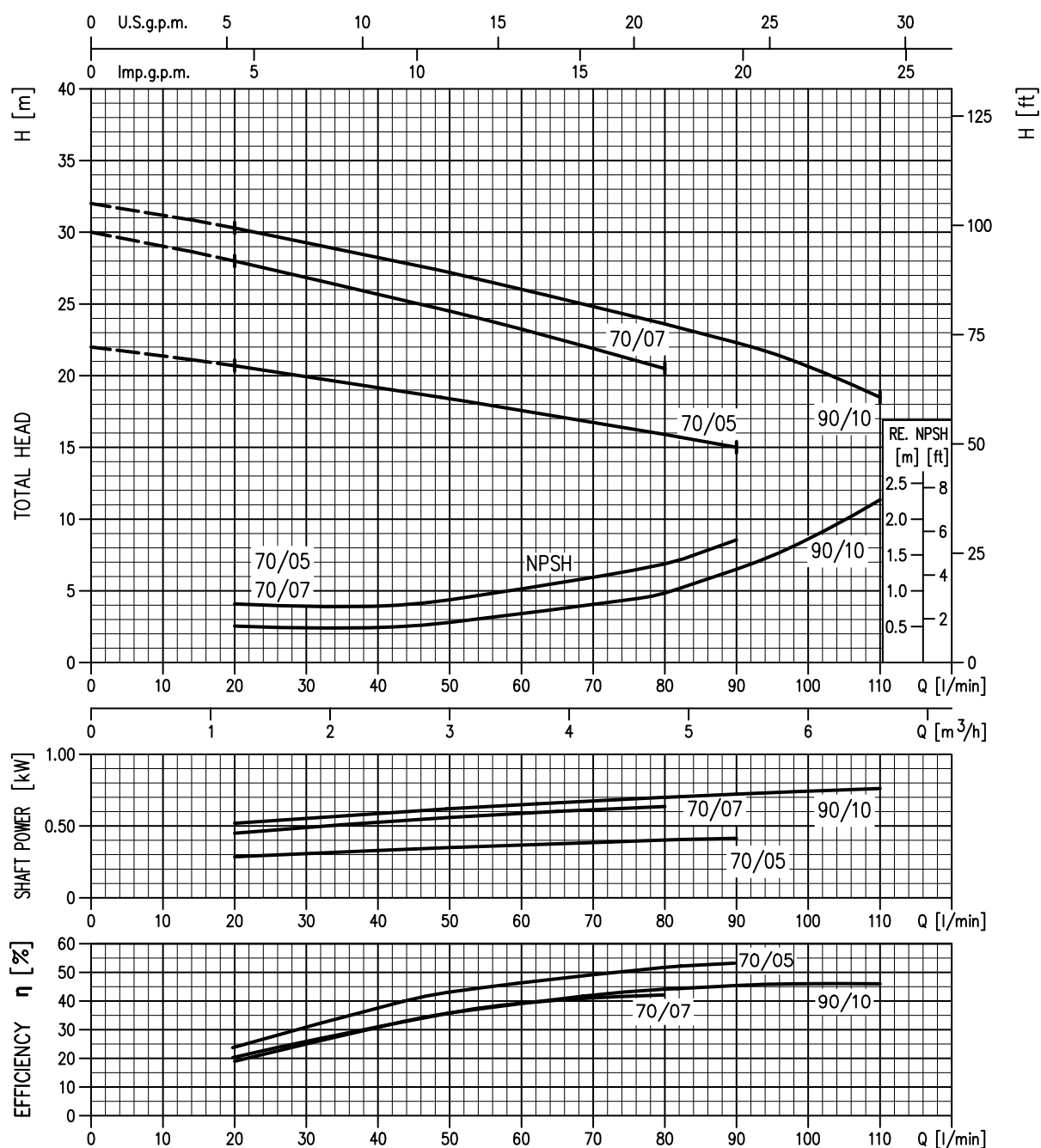
## PERFORMANCE CHART *(according to ISO 9906 Annex A)*



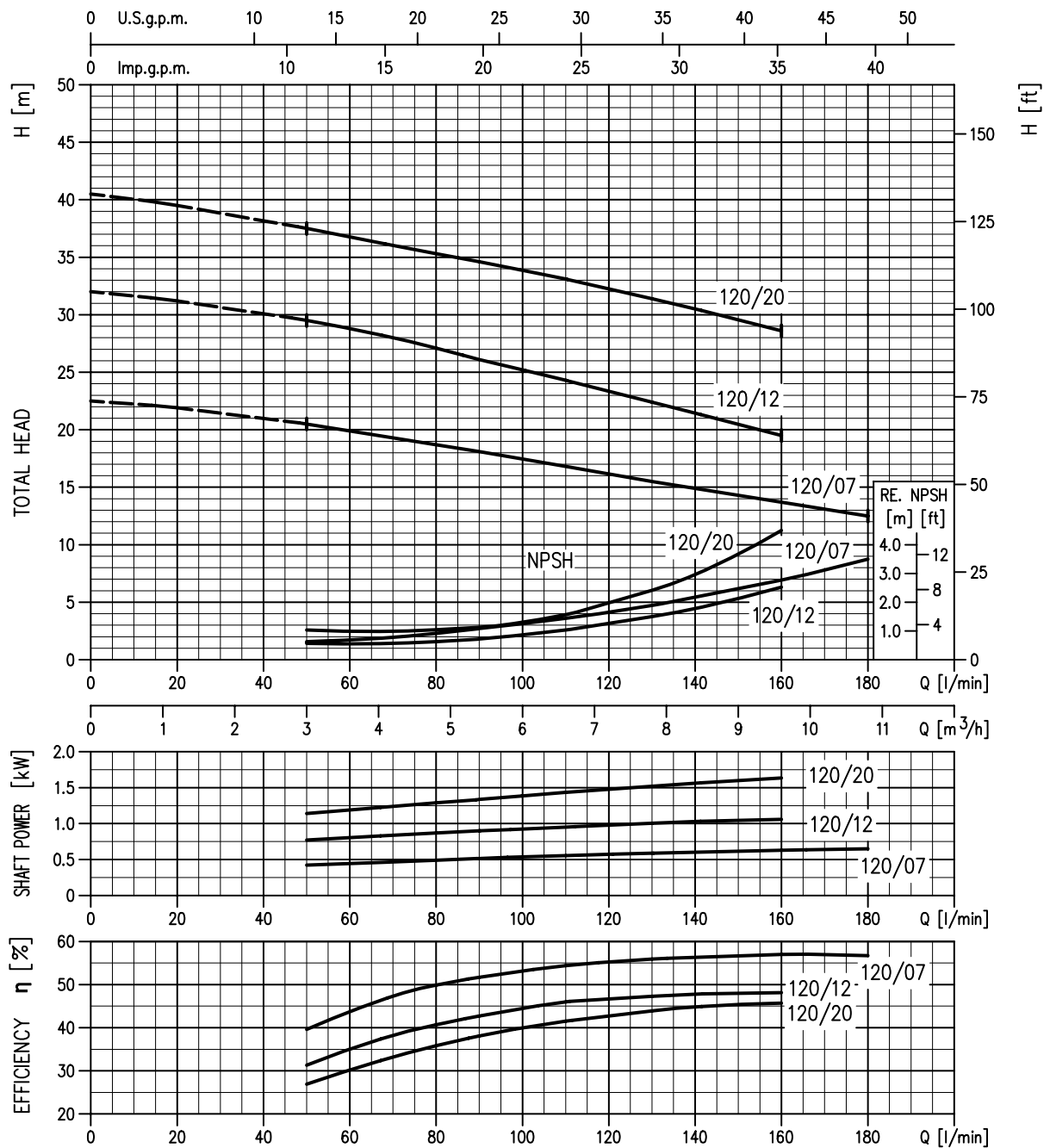
## PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m <sup>3</sup> /h	Q=Capacity									
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20	50	80	90	110	130	160	180	210	250
									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

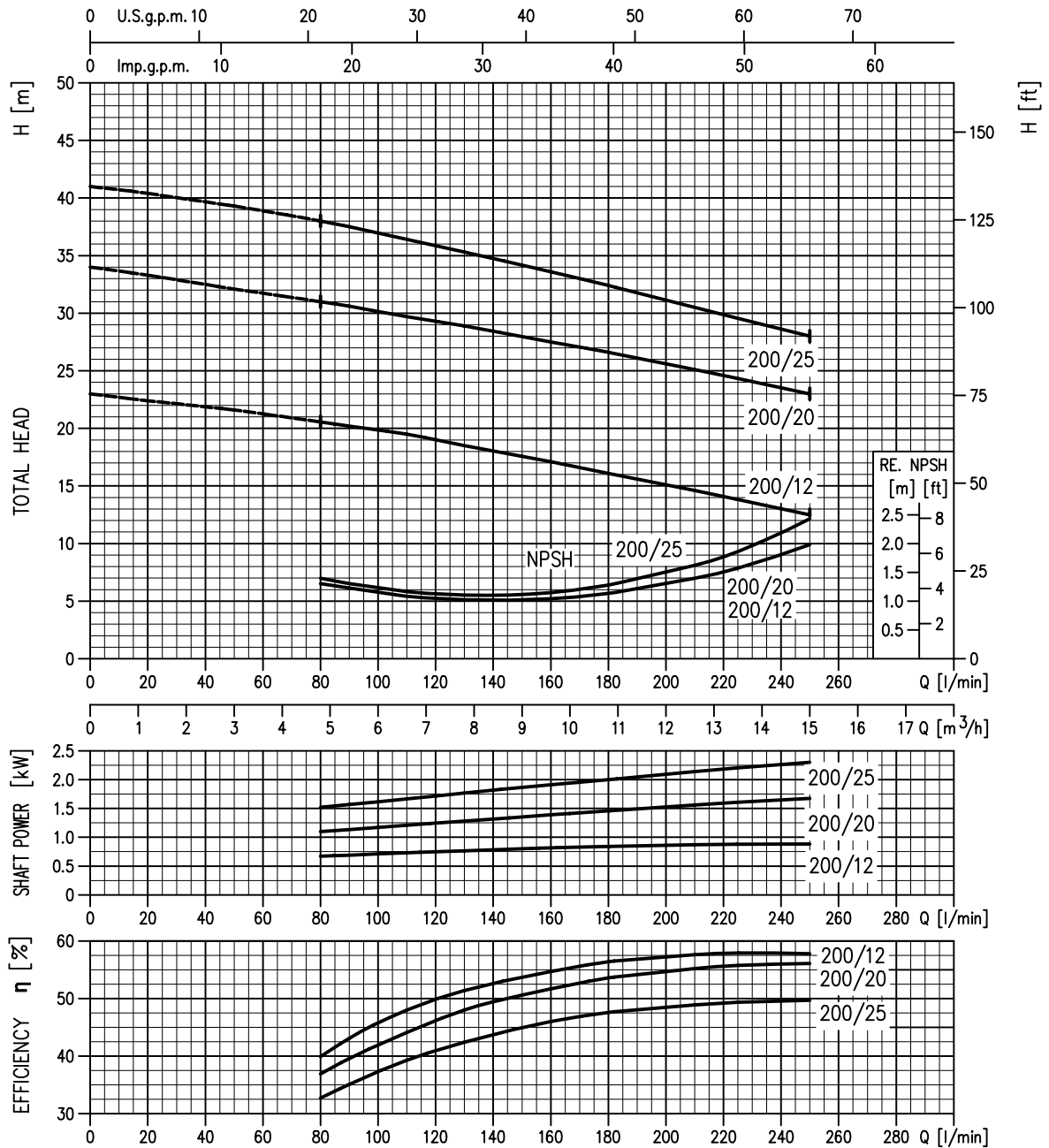
## PERFORMANCE CURVES CDX 70-90 series (according to ISO 9906 Annex A)



**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 & irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids



### SPECIFICATIONS

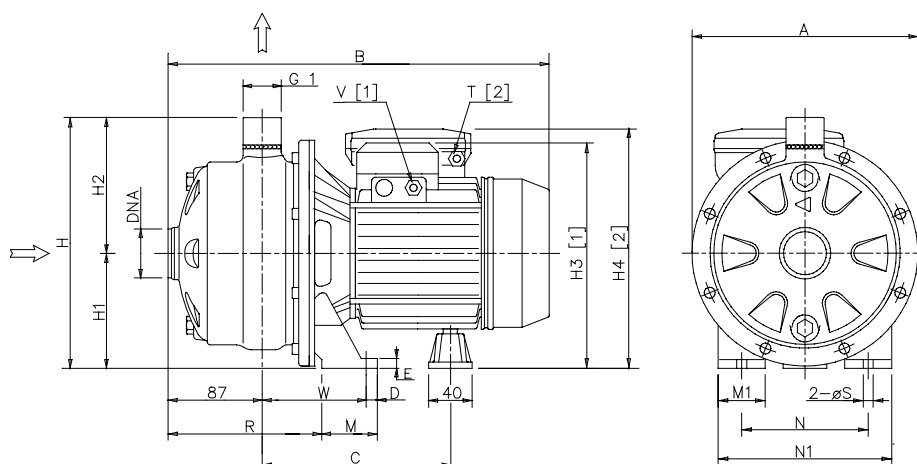
- Maximum working pressure: 8 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
60°C for other uses  
110° for H version

### MATERIALS

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

### TECHNICAL DATA

- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP55
- 1 230V  $\pm$  10% 50Hz, 3 230/400V  $\pm$  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
- DNA 1 $\frac{1}{2}$ " for 2CDX200  
DNA 1 $\frac{1}{4}$ " for the other models
- DNM 1"

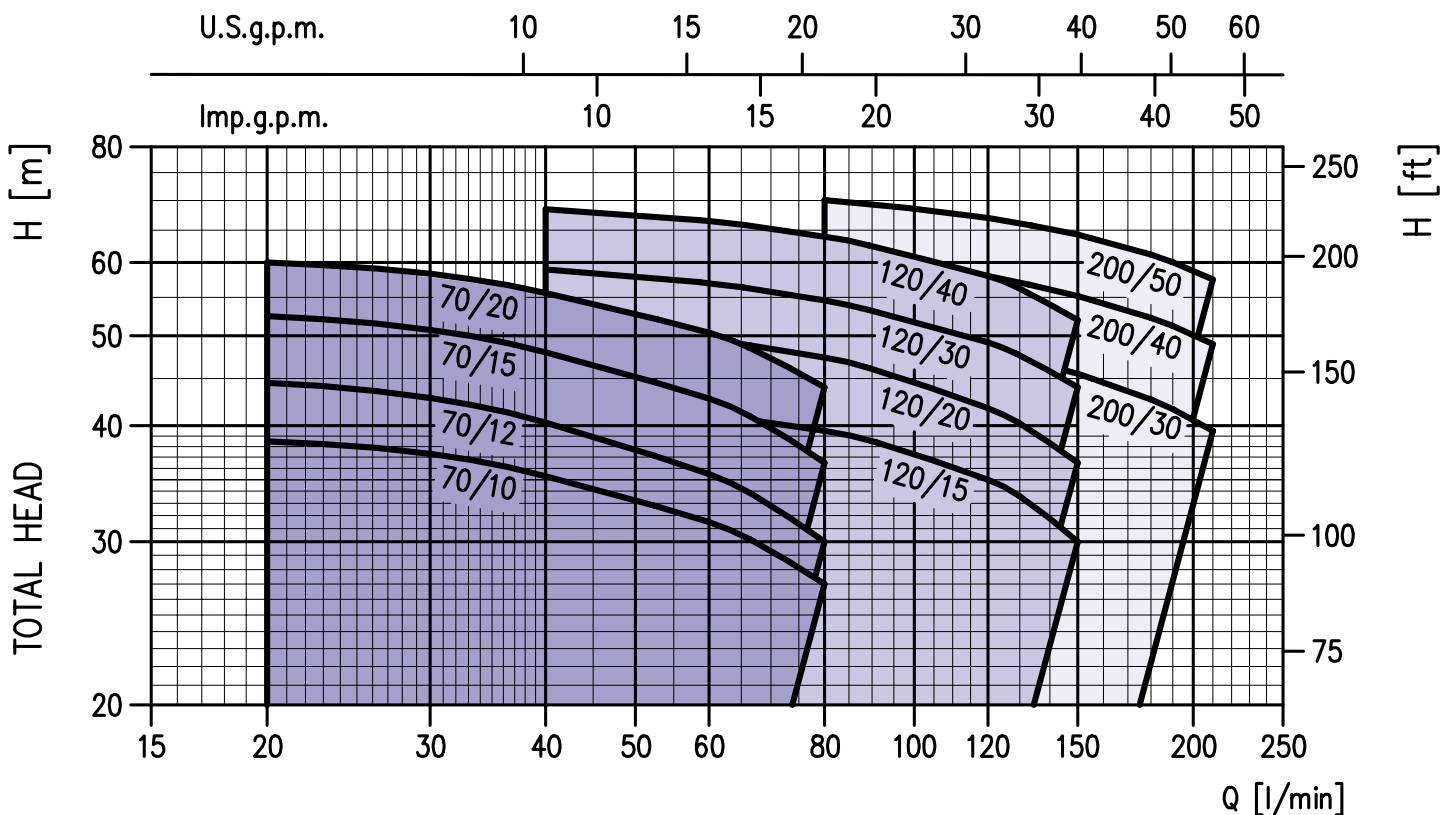


### DIMENSIONAL TABLE

Pump type		Dimensions (mm)																			Weight		
		A	B	C	D	E	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA	kg	
Single-phase	Three-phase									1~	3~						1~	3~				Single-phase	Three-phase
2CDXM 70/10	2CDX 70/10	208	355	182	12.5	8	229	106	123	209	215	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	182	12.5	8	229	106	123	209	215	50	38	120	160	142.5	PG11	PG11	93	9	G 1 1/4	14.2	13.8
2CDXM 70/15	2CDX 70/15	232	380	199	12.5	8	250	118	132	235	249	55	40	140	180	140	PG13.5	PG11	95.5	9	G 1 1/4	17.4	16.4
2CDXM 70/20	2CDX 70/20	232	385	199	12.5	8	250	118	132	235	249	55	40	140	180	140	PG13.5	PG11	95.5	9	G 1 1/4	18.6	18.2
2CDXM 120/15	2CDX 120/15	208	380	199	12.5	8	229	106	123	223	237	55	40	140	180	140	PG13.5	PG11	95.5	9	G 1 1/4	15.5	15.3
2CDXM 120/20	2CDX 120/20	208	380	199	12.5	8	229	106	123	223	237	55	40	140	180	140	PG13.5	PG11	95.5	9	G 1 1/4	18.0	16.9
-	2CDX 120/30	232	390	209.5	12.5	8	250	118	132	240	-	65	40	140	180	145	-	PG13.5	110.5	9	G 1 1/4	-	23.2
-	2CDX 120/40	232	420	231.5	12.5	8	250	118	132	240	-	65	40	140	180	145	-	PG13.5	110.5	9	G 1 1/4	-	26.4
-	2CDX 200/30	208	394	210	12.5	8	229	106	123	240	-	65	40	140	180	145	-	PG13.5	110.5	9	G 1 1/2	-	25.0
-	2CDX 200/40	232	420	231.5	12.5	8	250	118	132	240	-	65	40	140	180	145	-	PG13.5	110.5	9	G 1 1/2	-	25.0
-	2CDX 200/50	232	445	231.5	16.0	13	250	118	132	252	-	68	50	160	210	145	-	PG16	110.0	12	G 1 1/2	-	32.7



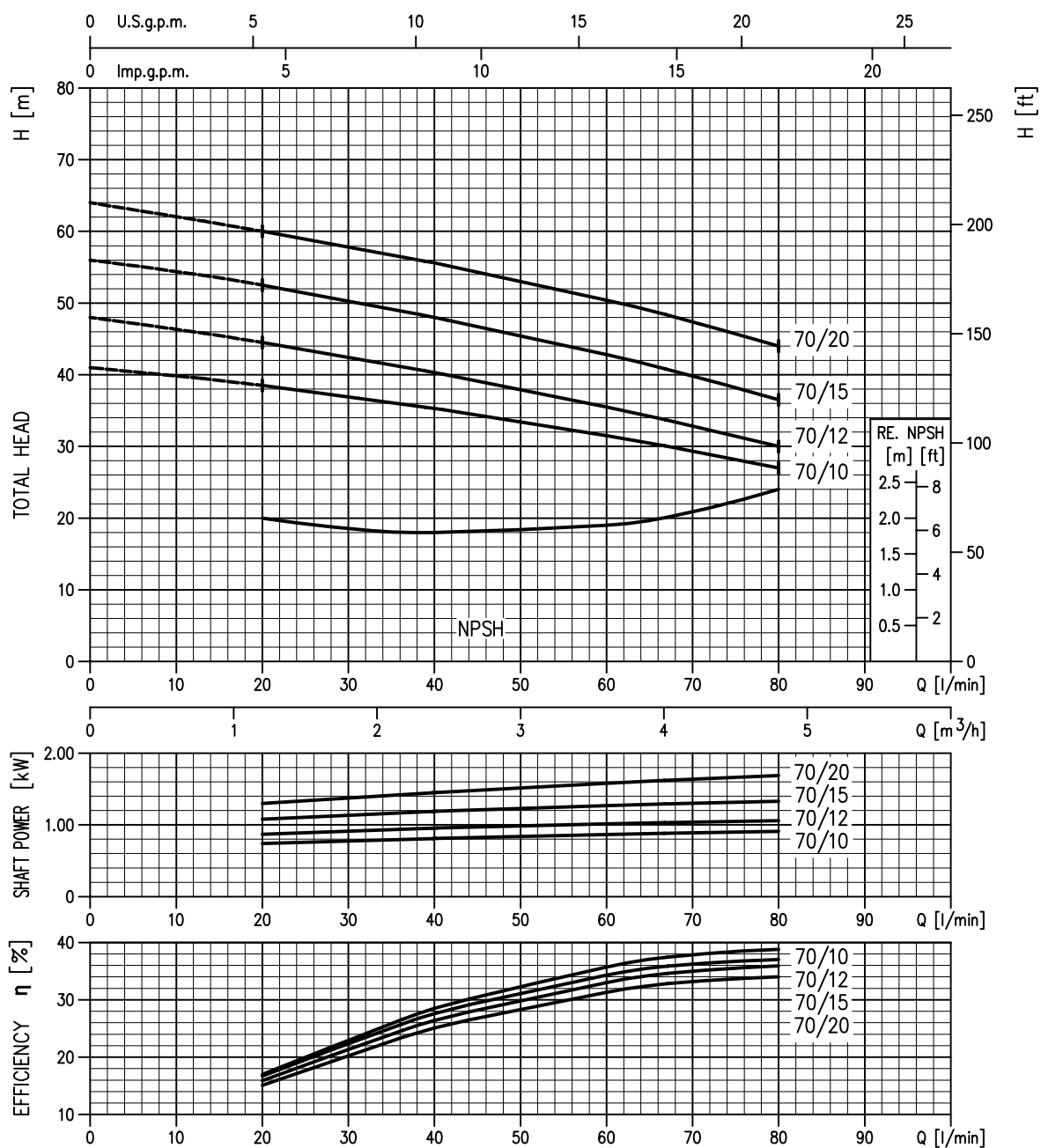
## PERFORMANCE CHART (according to ISO 9906 Annex A)



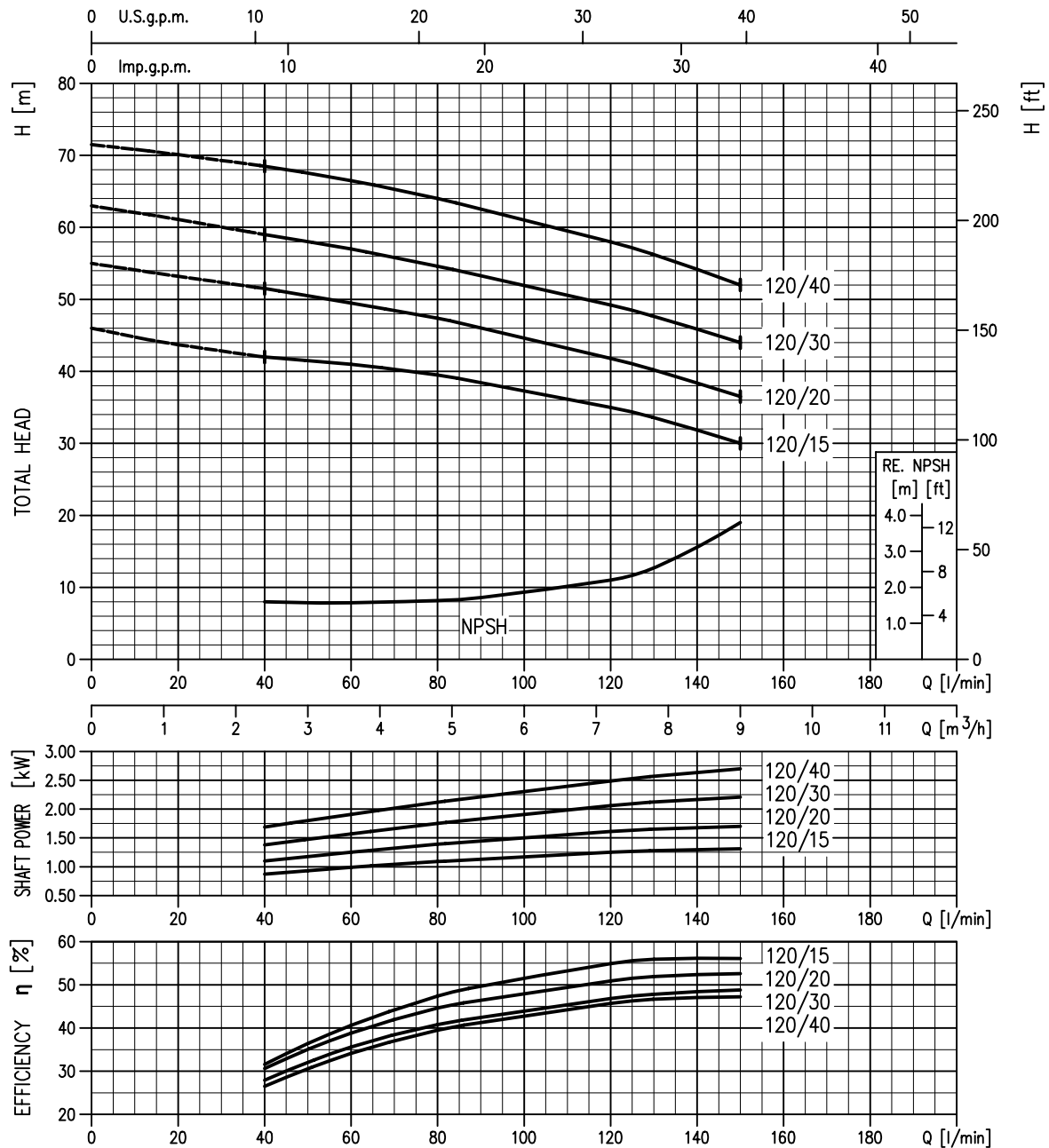
## PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20 1,2	40 2,4	60 3,6	80 4,8	120 7,2	150 9	180 10,8	210 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

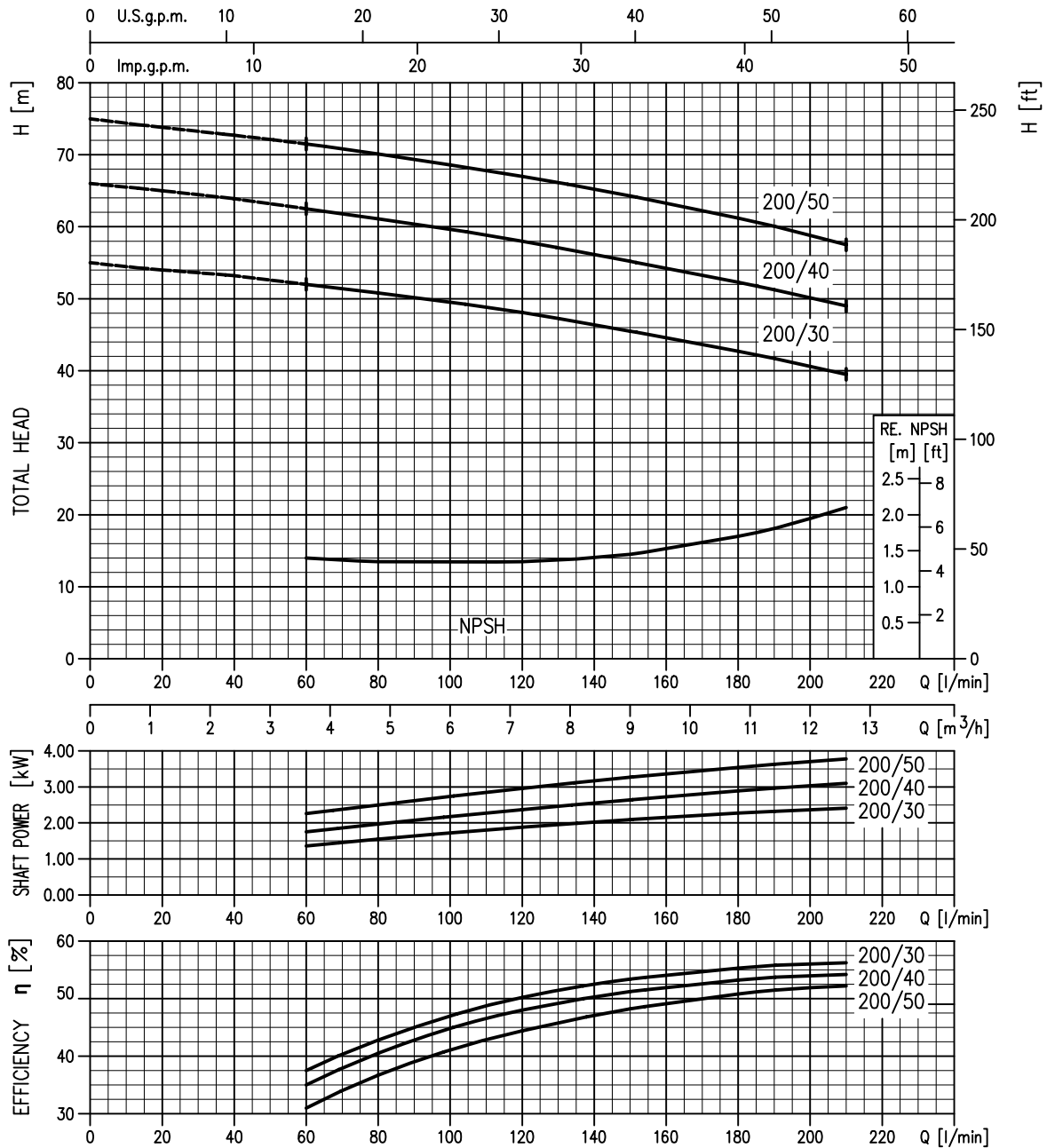
### PERFORMANCE CURVES series 2CDX 70 (according to ISO 9906 Annex A)



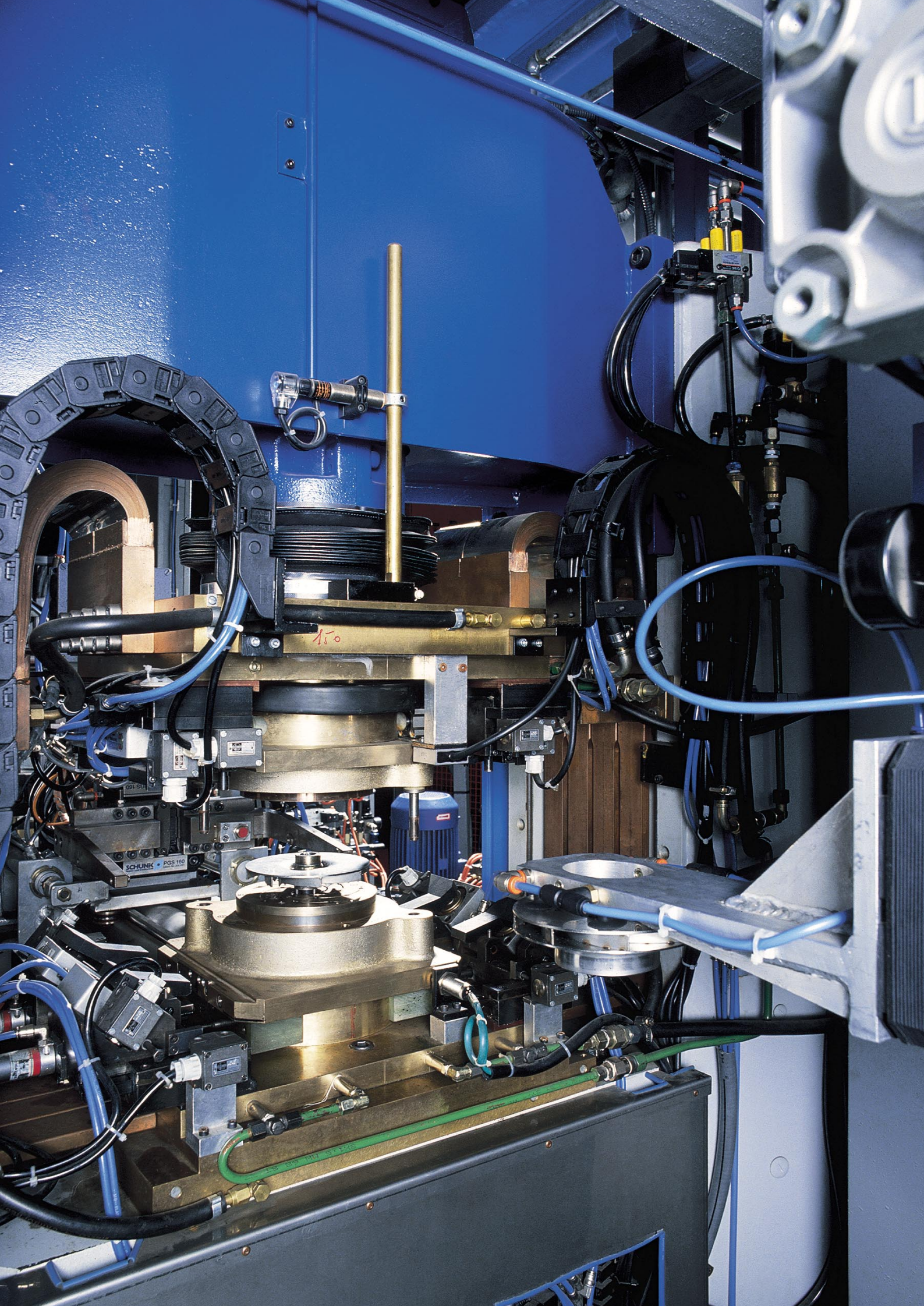
### PERFORMANCE CURVES 2CDX 120 series (according to ISO 9906 Annex A)



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









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



### SPECIFICATIONS

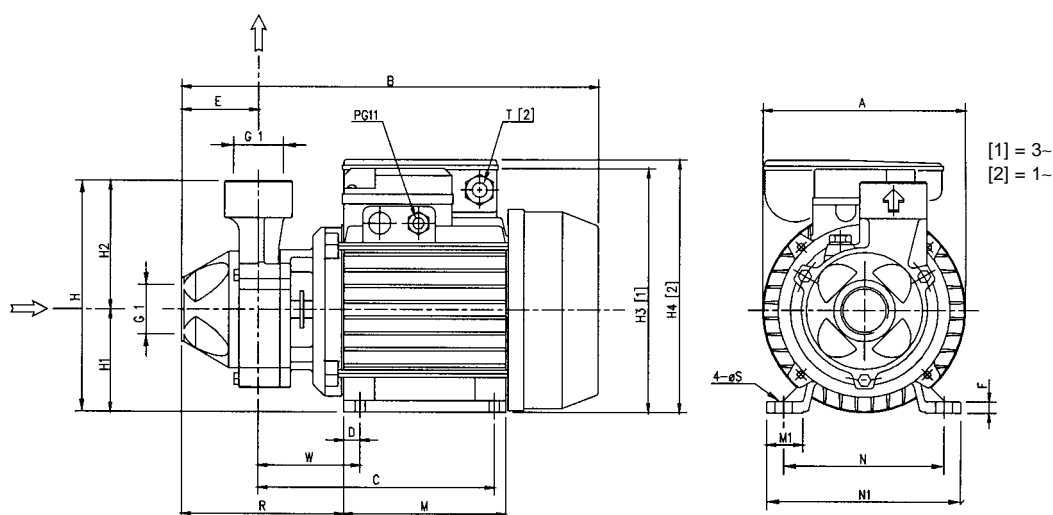
- Maximum working pressure: 6 bar for PRA 0.50  
7,5 bar for PRA 0.80 and 12 bar for the other models
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
80°C for other uses

### 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

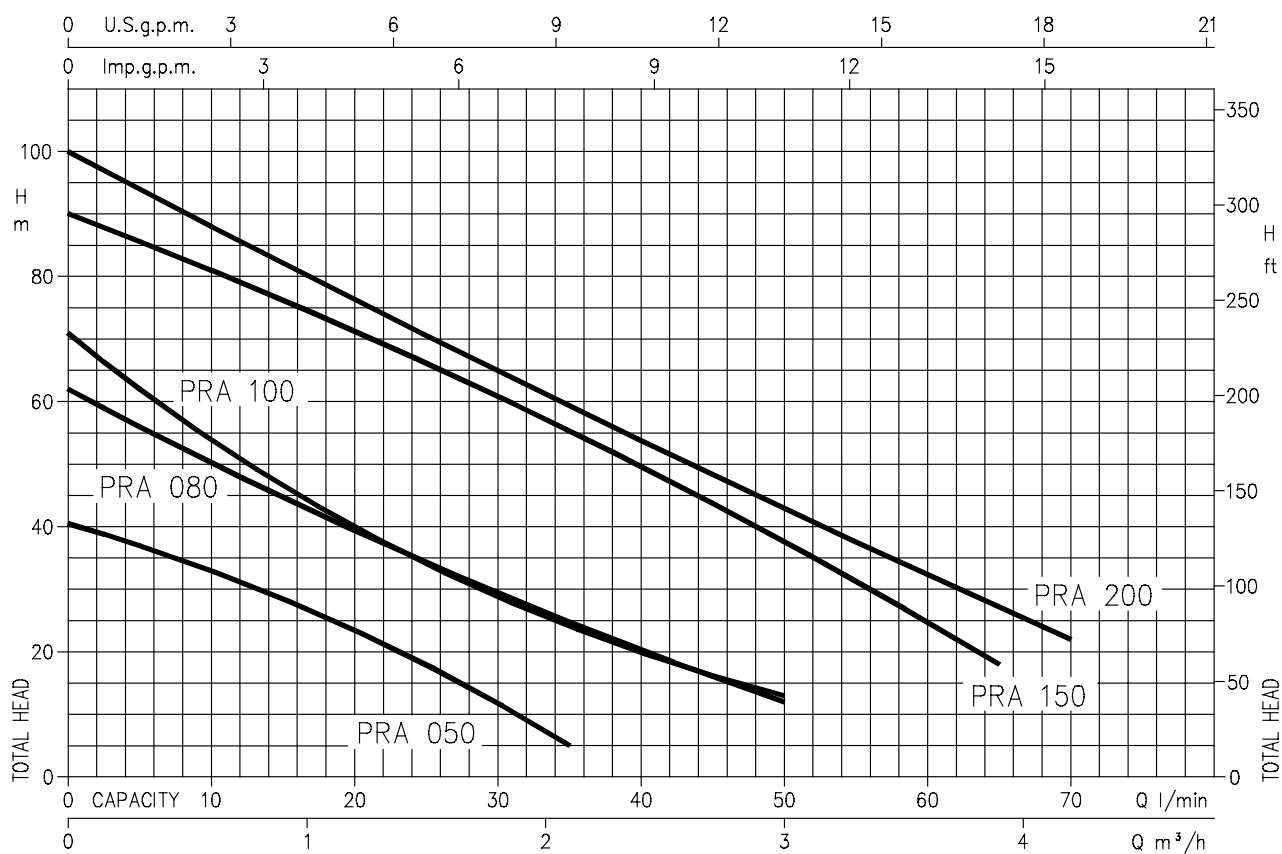
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V  $\pm 10\%$  50Hz, 3~230/400V  $\pm 10\%$  50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNM-DNA 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		l/min m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	Vc		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	37	33.3	28.7	23.7	5	-	-	-	
PRA 0.80M	PRA 0.80T	0.6	16	450	56	50.7	45.1	39.8	25	12	-	-	
PRA 1.00M	PRA 1.00T	0.75	20	450	62	54.4	47	40.4	24.3	13	-	-	
PRA 1.50M	PRA 1.50T	1.1	35	450	-	81	76.9	71.9	55.8	37.9	18	-	
PRA 2.00M	PRA 2.00T	1.5	40	450	-	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

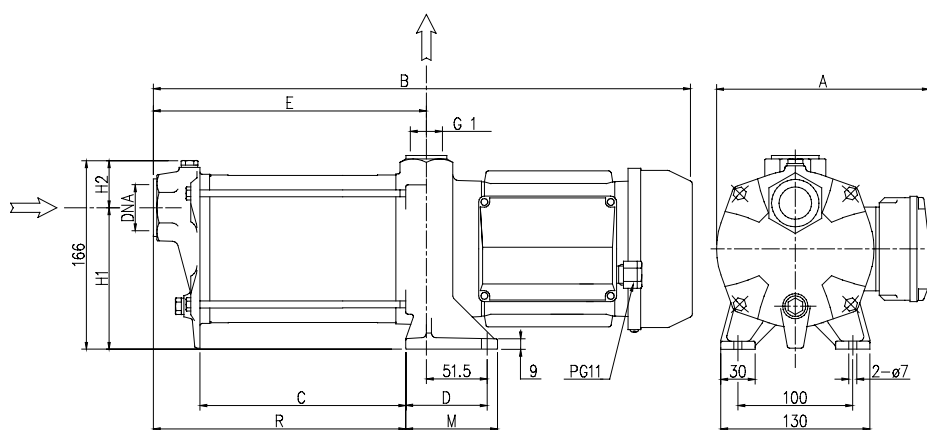
- Maximum working pressure: 10 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses

### 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  $\pm$  10% 50Hz, 3~230/400V  $\pm$  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
- DNM 1" – DNA 1 $\frac{1}{4}$ " for COMPACT B/12 and B/15, 1" for other models



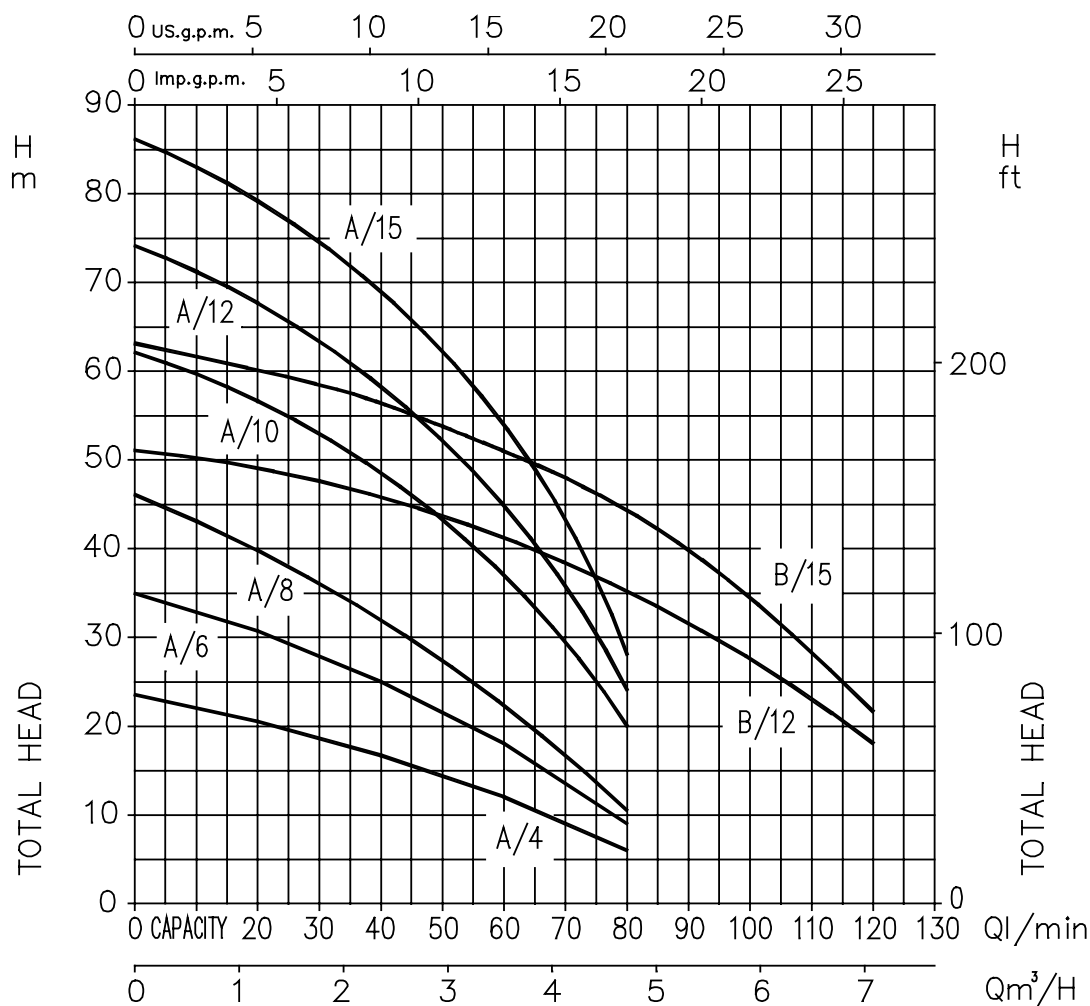
COMPACT

### 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 m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20	30	40	50	60	80	100	120
									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	2,4	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

Vertical centrifugal multistage pumps suitable for pressure boosting systems, car washing, irrigation and general clean water pumping. Reliable and noiseless pumps.



### SPECIFICATIONS

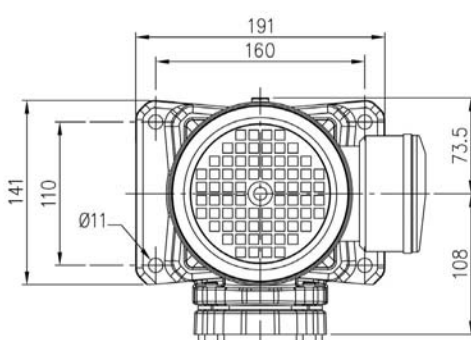
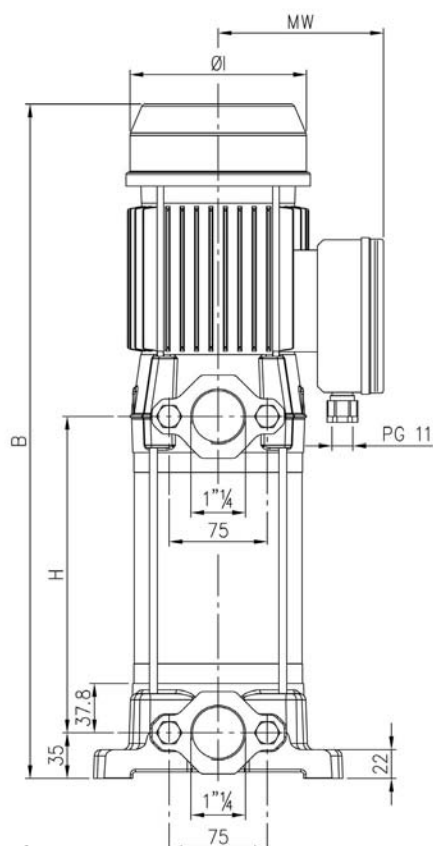
- Maximum working pressure: 10 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses

### 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  $\pm$  10% 50Hz, 3~230/400V  $\pm$  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
- DNM – DNA 1 $\frac{1}{4}$ "



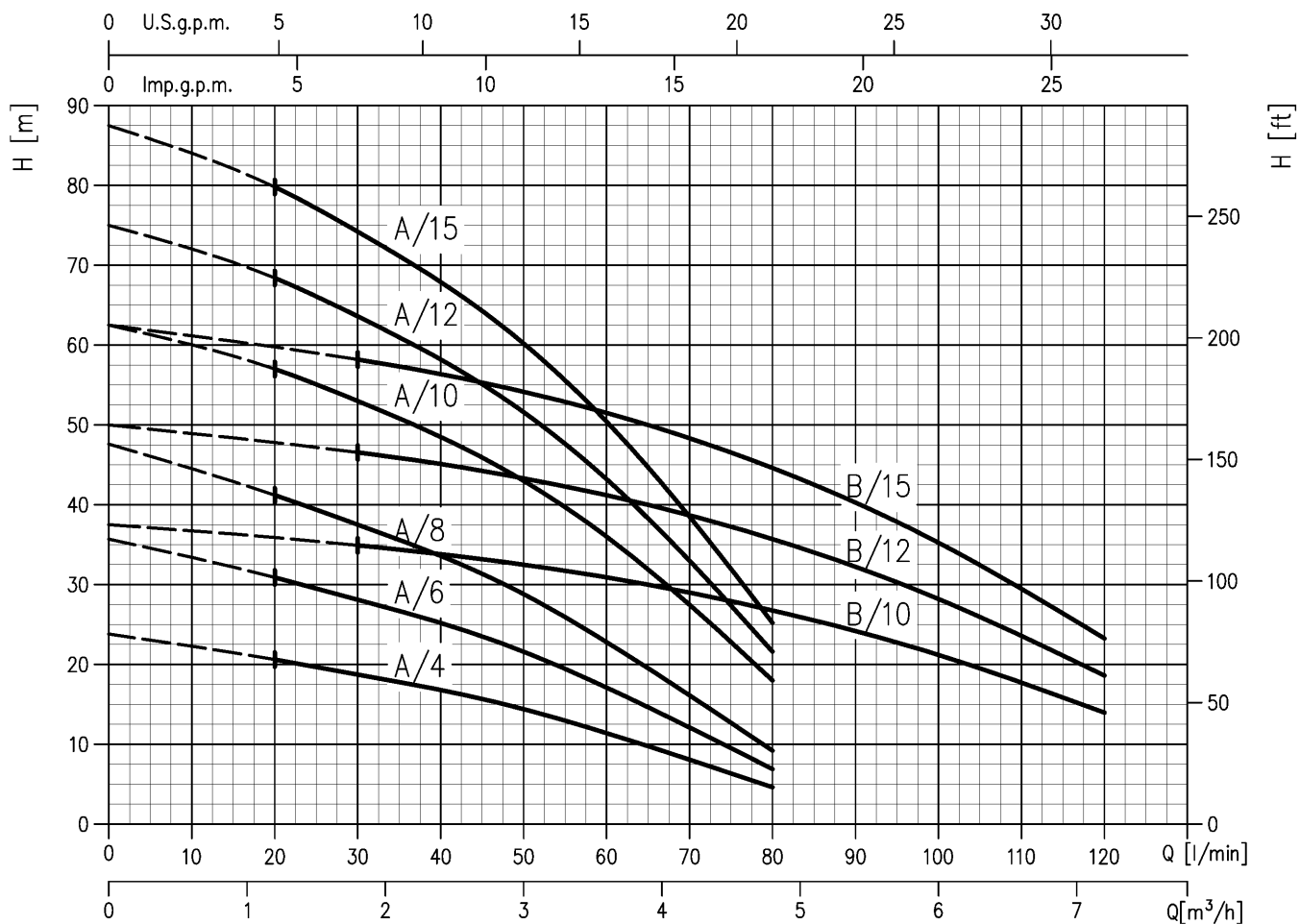
### DIMENSIONAL TABLE

Pump type	Dimensions (mm)						Weight	
	Motor	B	H	Ø	MW		Kg.	
CVM AM/4	63	355	112	116	92	113	11,0	11,0
CVM AM/6	63	381	138	116	92	113	11,7	11,6
CVM AM/8	63	407	164	116	92	113	12,7	12,6
CVM AM/10	71	468	190	137	101	122	16,5	16,6
CVM AM/12	71	494	216	137	101	122	17,5	17,6
CVM AM/15	71	531	242	137	101	122	18,5	18,6
CVM BM/10	71	416	138	137	101	122	15,9	15,9
CVM BM/12	71	442	164	137	101	122	16,8	16,7
CVM BM/15	71	479	190	137	101	122	18,0	17,9

[1] Only for three-phase

[2] Only for single-phase

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



## PERFORMANCE TABLE

Pump type		Power		Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity																
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz	kW	HP	µF	Vc	Single- phase	Three-phase 230V	400V		0	20	30	40	50	60	80	100	120								
										0	1,2	1,8	2,4	3	3,6	4,8	6	7,2								
										H=Total head																
CVM A/4	CVM A/4	0,3	0,4	10	450	2,6	1,9	1,9	23,8	21,2	19,7	17,8	15,6	13,0	6,4	-	-	-								
CVM A/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	23,2	19,4	9,6	-	-	-								
CVM A/8	CVM A/8	0,6	0,8	14	450	4,0	2,8	1,6	47,6	42,4	39,4	35,6	31,1	25,9	12,8	-	-	-								
CVM A/10	CVM A/10	0,75	1	20	450	6,0	4,0	2,3	62,5	57,5	54,0	49,5	43,7	36,6	19,5	-	-	-								
CVM A/12	CVM A/12	0,9	1,2	31,5	450	6,5	4,8	2,8	75,0	69,0	64,8	59,4	52,4	43,9	23,4	-	-	-								
CVM A/15	CVM A/15	1,1	1,5	31,5	450	7,2	5,7	3,3	87,5	80,5	75,6	69,3	61,1	51,2	27,3	-	-	-								
CVM B/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 B/12	CVM B/12	0,9	1,2	31,5	450	6,2	4,7	2,7	50,8	-	48,2	46,8	45,0	42,6	36,6	28,8	19,6	-								
CVM B/15	CVM B/15	1,1	1,5	31,5	450	7,4	5,5	3,2	63,5	-	60,3	58,5	56,2	53,3	45,8	36,0	24,5	-								

Low noise Vertical Multistage Pump, the motor is cooled by pumped liquid, whilst simultaneously reducing the noise levels as the liquid passes around the motor within a water jacket. The double mechanical seal with interposed chamber containing lubrication fluid ensuring long life and reliability. Suitable for booster sets, water features and irrigation systems. This pump is also suitable for installations where the pump is required to run under flood conditions. Supplied with 5 m cable length type H07 RN-F.



### SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses

### MATERIALS

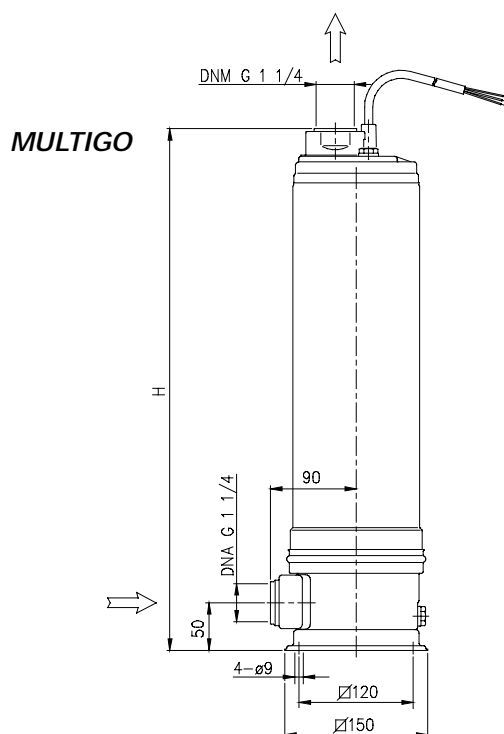
- Pump body, casing cover, external casing and motor casing in AISI 304
- Impeller and diffuser in tecnopolymer
- Shaft in AISI 416
- Mechanical seal in carbon/ceramic/NBR

### TECHNICAL DATA

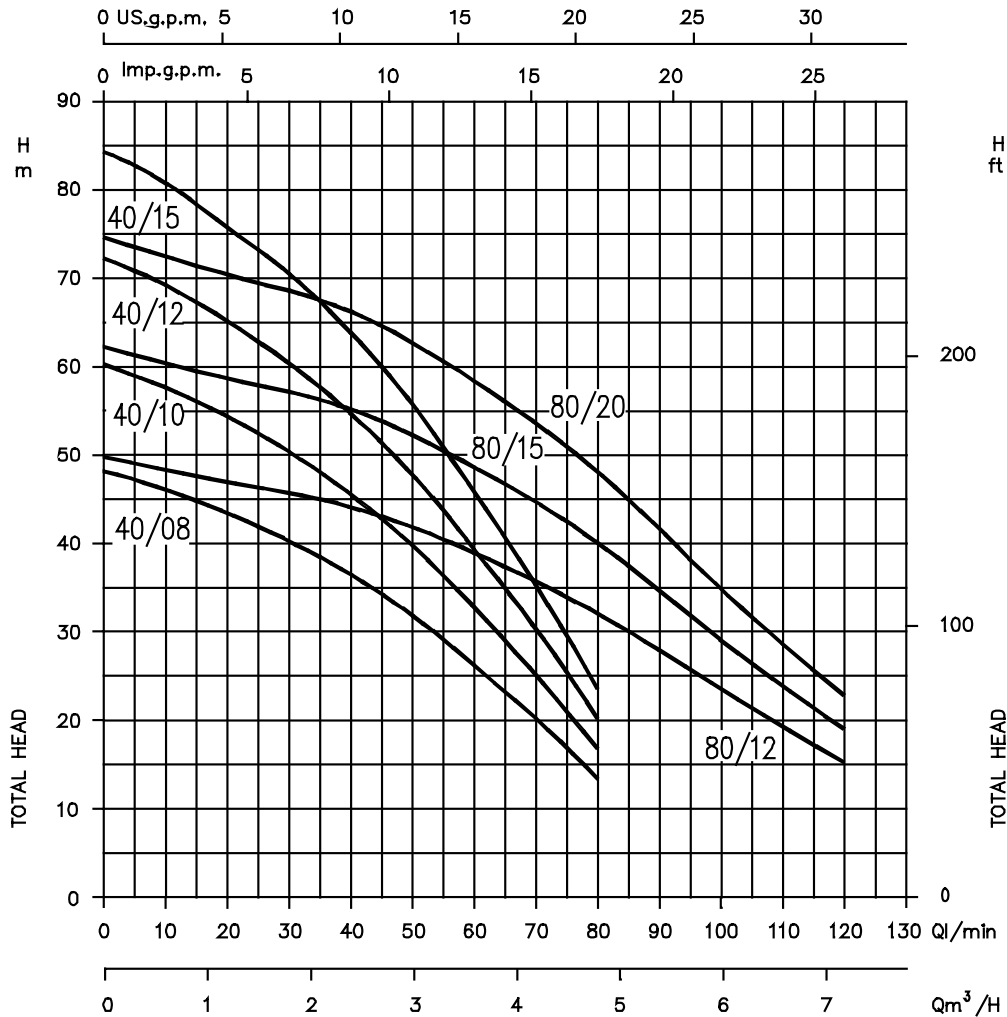
- Asincronous 2 poles motor cooled by the pumped liquid
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm$  10% 50Hz, 3~400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase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

### DIMENSIONAL TABLE

Pump type		H mm	Weight kg	
Single-phase	Three-phase		1~	3~
MULTIGO M 40/08	MULTIGO 40/08	547	13,4	13,0
MULTIGO M 40/10	MULTIGO 40/10	573	14,4	14,0
MULTIGO M 40/12	MULTIGO 40/12	624	14,8	14,4
MULTIGO M 40/15	MULTIGO 40/15	650	16,4	16,0
MULTIGO M 80/12	MULTIGO 80/12	573	14,8	14,4
MULTIGO M 80/15	MULTIGO 80/15	598	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)		l/min m³/h	Q=Capacity						
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	Vc	1~ 230V	3~ 400V		20	30	40	60	80	100	120
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 centrifugal pumps completely made of stainless steel AISI 304. Reliable, quiet and easy to maintain. Suitable for municipal, Industrial and agricultural applications e.g. Fire fighting, water boosting (WRAS approved) water treatment plants, irrigation, hot and cold water movement for heating systems, cooling and airconditioners, especially suitable for boiler feed due to the robust construction of the pumps. IEC standard motors are used on all models.*



### **SPECIFICATIONS**

- Maximum working pressure up to 25 bar
- Liquid temperature: from  $-15^{\circ}\text{C}$  up to  $+120^{\circ}\text{C}$

### **MATERIALS**

- Pump body, external casing, casing cover, impellers, diffusers, bearing sleeve, coupling guard and bolts in contact with liquid AISI 304 ("G" version for EVM 30-60: 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
- Mechanical seal in SiC/Carbone/FPM

### **TECHNICAL DATA**

- Asincronous 2 poles motor
- Insulation class F
- Protection IP55
- 1~230V  $\pm 10\%$  50Hz up to 2,2 kW, 3~230/400V  $\pm 10\%$  50Hz up to 4 kW included, 3~400/690V  $\pm 10\%$  above 5,5 kW





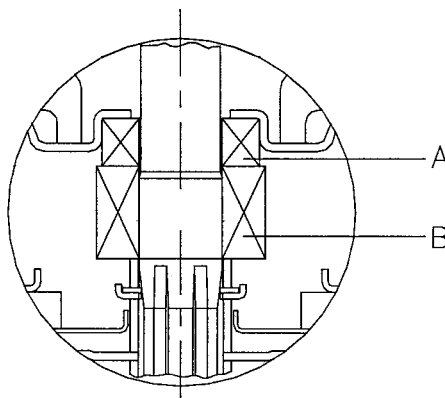
# VERTICAL MULTISTAGE PUMPS in AISI 304

Pump type EVM		kW	Pmax [Mpa]	Motor Size	Capacitor		Absorbed Current (A)				l/min m³/h	Q=Capacity									
Single-phase	Three-phase				µF	Vc	1~	3~ 230V	3~ 400V	3~ 690V		H=Total head									
												20	40	60	75	80	120	150	225	300	400
												1,2	2,4	3,6	4,5	4,8	7,2	9,0	13,5	18	24
EVM2 2N/0,37 M	EVM2 2N/0,37	0,37	1,6	71	10	400	3,0	1,65	0,95	-		16,8	12,8	7,5	-	-	-	-	-	-	-
EVM2 3N/0,37 M	EVM2 3N/0,37	0,37	1,6	71	10	400	3,0	1,65	0,95	-		25,2	19,2	11,1	-	-	-	-	-	-	-
EVM2 4N/0,55 M	EVM2 4N/0,55	0,55	1,6	71	12	400	3,8	2,34	1,35	-		33,9	26	15,2	-	-	-	-	-	-	-
EVM2 5N/0,55 M	EVM2 5N/0,55	0,55	1,6	71	12	400	3,8	2,34	1,35	-		42	32,5	18,8	-	-	-	-	-	-	-
EVM2 6N/0,75 M	EVM2 6N/0,75	0,75	1,6	80	20	400	5,3	2,8	1,6	-		50,5	38	22,5	-	-	-	-	-	-	-
EVM2 7N/0,75 M	EVM2 7N/0,75	0,75	1,6	80	20	400	5,3	2,8	1,6	-		58,8	44,3	26,1	-	-	-	-	-	-	-
EVM2 9N/1,1 M	EVM2 9N/1,1	1,1	1,6	80	30	400	6,5	4,0	2,3	-		75,7	58,1	33,8	-	-	-	-	-	-	-
EVM2 11N/1,1 M	EVM2 11N/1,1	1,1	1,6	80	30	400	6,5	4,0	2,3	-		91,1	68,7	39,5	-	-	-	-	-	-	-
EVM2 13N/1,5 M	EVM2 13N/1,5	1,5	1,6	90	40	400	9,5	5,7	3,3	-		109	84	48,8	-	-	-	-	-	-	-
EVM2 15N/1,5 M	EVM2 15N/1,5	1,5	1,6	90	40	400	9,5	5,7	3,3	-		126	95,5	55,9	-	-	-	-	-	-	-
EVM2 18F/2,2 M	EVM2 18F/2,2	2,2	2,5	90	60	400	13	7,6	4,4	-		156	120	74	-	-	-	-	-	-	-
EVM2 22F/2,2 M	EVM2 22F/2,2	2,2	2,5	90	60	400	13	7,6	4,4	-		186	141,2	81,7	-	-	-	-	-	-	-
-	EVM2 26F/3,0	3,0	2,5	100	-	-	-	10,9	6,3	-		220	165,1	105	-	-	-	-	-	-	-
EVM4 2N/0,37 M	EVM4 2N/0,37	0,37	1,6	71	10	400	3,0	1,6	0,95	-		-	17,2	15,8	13,9	13,4	6,9	-	-	-	-
EVM4 3N/0,55 M	EVM4 3N/0,55	0,55	1,6	71	12	400	3,8	2,3	1,35	-		-	25,7	23,4	21	20,2	10,5	-	-	-	-
EVM4 4N/0,75 M	EVM4 4N/0,75	0,75	1,6	80	20	400	5,3	2,8	1,6	-		-	34,9	32	28,4	27,4	15,5	-	-	-	-
EVM4 5N/1,1 M	EVM4 5N/1,1	1,1	1,6	80	30	400	6,5	4,0	2,3	-		-	44,1	40,6	36,3	35	19,8	-	-	-	-
EVM4 6N/1,1 M	EVM4 6N/1,1	1,1	1,6	80	30	400	6,5	4,0	2,3	-		-	53,2	48,2	43,5	42	24	-	-	-	-
EVM4 7N/1,5 M	EVM4 7N/1,5	1,5	1,6	90	40	400	9,5	5,7	3,3	-		-	61,8	56,5	50,9	49	27,7	-	-	-	-
EVM4 8N/1,5 M	EVM4 8N/1,5	1,5	1,6	90	40	400	9,5	5,7	3,3	-		-	71,6	65,8	58,2	57,1	33	-	-	-	-
EVM4 10N/2,2 M	EVM4 10N/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	88,2	81	72,5	70,6	39,6	-	-	-	-
EVM4 11N/2,2 M	EVM4 11N/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	98	90,2	81,8	78,6	45	-	-	-	-
EVM4 12N/2,2 M	EVM4 12N/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	106	97,4	87,2	84	47,5	-	-	-	-
-	EVM4 14N/3,0	3,0	1,6	100	-	-	-	10,9	6,3	-		-	127	116	105,7	102,2	60,5	-	-	-	-
-	EVM4 16N/3,0	3,0	1,6	100	-	-	-	10,9	6,3	-		-	142	130	118	116,7	67,6	-	-	-	-
-	EVM4 19F/4,0	4,0	2,5	112	-	-	-	14,2	8,2	-		-	168	154,2	138,2	134,6	75,2	-	-	-	-
-	EVM4 22F/4,0	4,0	2,5	112	-	-	-	14,2	8,2	-		-	195	180	163,5	158,1	88,9	-	-	-	-
EVM8 2N/0,75 M	EVM8 2N/0,75	0,75	1,6	80	20	400	5,3	2,8	1,6	-		-	-	-	21,1	20,8	19,2	17,1	10,4	-	-
EVM8 3N/1,1 M	EVM8 3N/1,1	1,1	1,6	80	30	400	6,5	4,0	2,3	-		-	-	-	32	31,8	29,5	26,8	16,7	-	-
EVM8 4N/1,5 M	EVM8 4N/1,5	1,5	1,6	90	40	400	9,5	5,7	3,3	-		-	-	-	42,8	42,2	40	36,1	22,6	-	-
EVM8 5N/2,2 M	EVM8 5N/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	-	-	53,6	53	49,1	44,3	28,3	-	-
EVM8 6N/2,2 M	EVM8 6N/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	-	-	64,4	64,2	59	53,6	33,8	-	-
-	EVM8 8N/3,0	3,0	1,6	100	-	-	-	7,6	6,3	-		-	-	-	85,7	85	80,2	72,5	45,8	-	-
-	EVM8 10N/4,0	4,0	1,6	112	-	-	-	10,9	8,2	-		-	-	-	107	106	98,4	87,9	56,5	-	-
-	EVM8 11N/4,0	4,0	1,6	112	-	-	-	14,2	8,2	-		-	-	-	117	116,2	108	97,8	61,4	-	-
-	EVM8 12N/5,5	5,5	1,6	132	-	-	-	14,2	11,5	6,6		-	-	-	129	127,1	118,4	107,5	67,8	-	-
-	EVM8 14N/5,5	5,5	1,6	132	-	-	-	-	11,5	6,6		-	-	-	150	148,3	137,5	124,8	79,1	-	-
-	EVM8 15F/5,5	5,5	2,5	132	-	-	-	-	11,5	6,6		-	-	-	162	160,7	148,7	134,2	86,6	-	-
-	EVM8 16F/7,5	7,5	2,5	132	-	-	-	-	15,3	8,8		-	-	-	171	170	157,8	140,9	90,4	-	-
-	EVM8 18F/7,5	7,5	2,5	132	-	-	-	-	15,3	8,8		-	-	-	193	191,2	176,2	158	102	-	-
-	EVM8 20F/7,5	7,5	2,5	132	-	-	-	-	15,3	8,8		-	-	-	219	217,2	202,3	183,2	121	-	-
EVM16 2F/2,2 M	EVM16 2F/2,2	2,2	1,6	90	60	400	13	7,6	4,4	-		-	-	-	-	-	29	26,2	21,1	10,6	
-	EVM16 3F/3,0	3,0	1,6	100	-	-	-	10,9	6,3	-		-	-	-	-	-	43,6	38,1	30,7	15,4	
-	EVM16 4F/4,0	4,0	1,6	112	-	-	-	14,2	8,2	-		-	-	-	-	-	58,2	52	42,3	22,3	
-	EVM16 5F/5,5	5,5	1,6	132	-	-	-	-	11,5	6,6		-	-	-	-	-	73,8	67,1	54,9	29,5	
-	EVM16 6F/5,5	5,5	1,6	132	-	-	-	-	11,5	6,6		-	-	-	-	-	88,3	79,8	65	35,8	
-	EVM16 7F/7,5	7,5	1,6	132	-	-	-	-	15,3	8,8		-	-	-	-	-	103	92,5	76,5	41,3	
-	EVM16 8F/7,5	7,5	1,6	132	-	-	-	-	15,3	8,8		-	-	-	-	-	119	108	88,1	49,2	
-	EVM16 10F/11	11	2,5	160	-	-	-	-	20,4	11,8		-	-	-	-	-	148	132,2	108,9	59	
-	EVM16 12F/11	11	2,5	160	-	-	-	-	20,4	11,8		-	-	-	-	-	181	164,5	138	77,6	
-	EVM16 14F/15	15	2,5	160	-	-	-	-	27,6	15,9		-	-	-	-	-	207	186,5	152,3	82,6	
-	EVM16 15F/15	15	2,5	160	-	-	-	-	27,6	15,9		-	-	-	-	-	226	207	171,8	100	
-	EVM16 16F/15	15	2,5	160	-	-	-	-	27,6	15,9		-	-	-	-	-	236	215,2	181	108	

Pump type EVM	kW	Maximum working pressure [MPa]	Motor size	Absorbed Current (A)			l/min m³/h	Q=Capacity							
				Three-phase				200	300	400	500	600	800	1000	1200
				230V	400V	690V		12	18	24	30	36	48	60	72
								H=Total head							
EVM30 2F/4	4	1,6	112		7,6	-		39	36,5	33	28	21			
EVM30 3F/5,5	5,5	1,6	132	-	10,6	6,1		58,5	54,8	49,5	42	31,5			
EVM30 4F/7,5	7,5	1,6	132	-	13,9	8,0		78	73	66	56	42			
EVM30 5F/11	11	1,6	160	-	20,1	11,6		95,3	89,2	80,3	67,9	52,3			
EVM30 6F/11	11	1,6	160		20,1	11,6		112,6	105,4	94,6	79,8	62,5			
EVM30 7F/15	15	1,6	160	-	26,8	15,4		134,3	125	113	96,6	75,3			
EVM30 8F/15	15	2,5	160		26,8	15,4		156	144	130	114	88			
EVM30 9F/18,5	18,5	2,5	160	-	32,3	18,6		175,5	163	148	128,5	100			
EVM30 10F/18,5	18,5	2,5	160		32,3	18,6		195	182	166	143	112			
EVM30 11F/22	22	2,5	180	-	39,7	22,9		214,5	201,5	183	157	123			
EVM30 12F/22	22	2,5	180		39,7	22,9		234	221	200	171	134			
EVM60 2F/5,5	5,5	1,6	132	-	10,6	6,1		-	-	30	29	27,8	24,7	20,2	14,5
EVM60 3F/7,5	7,5	1,6	132		13,9	8,0		-	-	43	41,4	39,3	34,7	28,5	20
EVM60 4F/11	11	1,6	160	-	20,1	11,6		-	-	59,5	57,2	54,6	48,8	40,3	29
EVM60 5F/15	15	1,6	160		26,8	15,4		-	-	71,5	69	66	58,4	48,8	35
EVM60 6F/15	15	1,6	160	-	26,8	15,4		-	-	83,5	80,6	77	68,3	57	41
EVM60 7F/18,5	18,5	1,6	160		32,3	18,6		-	-	103,5	99,8	95,6	85	71,2	52
EVM60 8F/22	22	1,6	180	-	39,7	22,9		-	-	120	115,7	110,5	98,2	83	62



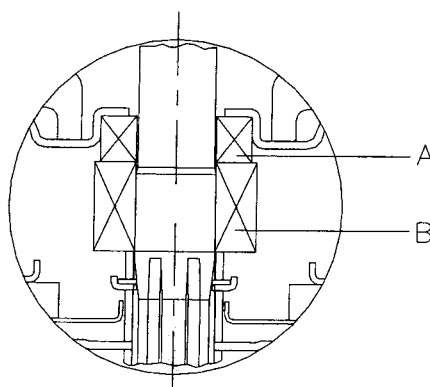
## MECHANICAL SEAL EVM 2-16



Pump Type EVM	Size [mm]	Max. working pressure [MPa]	A Stationary seal ring	Material B Rotary seal ring	Rubber
2-4	12.7	1.6	Silicon carbide	Carbon graphite	FPM
		2.5			
8	16	1.6			
		2.5			
16	20	1.6			
		2.5			
2-4*	12.7	1.6	Ceramic	Carbon graphite	EPDM
		2.5	Silicon Carbide	Carbon graphite	EPDM
8*	16	1.6	Ceramic	Carbon graphite	EPDM
		2.5	Silicon Carbide	Carbon graphite	EPDM
16*	20	1.6	Ceramic	Carbon graphite	EPDM
		2.5	Silicon Carbide	Carbon graphite	EPDM

\* WRAS approved version

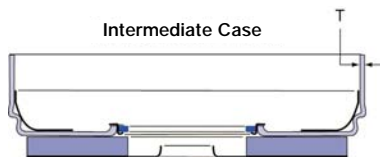
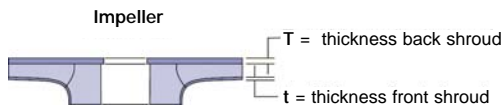
## MECHANICAL SEAL EVM 30-60



Pump Type EVM	Size [mm]	Max. working pressure [MPa]	A Stationary seal ring	Material B Rotary seal ring	Rubber
30-60	25	1.6	Silicon carbide	Carbon graphite	FPM
		2.5			
30-60*	25	1.6	Silicon carbide	Carbon graphite	EPDM
		2.5			

\* WRAS approved version

The EBARA EVM vertical multistage pumps offer technically advanced designs to meet market demands including hot water applications. Unique bulge forming process produces rugged construction with increased wall thickness and assures component integrity.

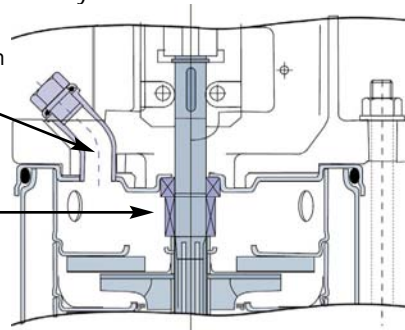


#### Air vent

in casing cover allows proper venting preventing air entrapment and dry run

Vent position eliminates all air

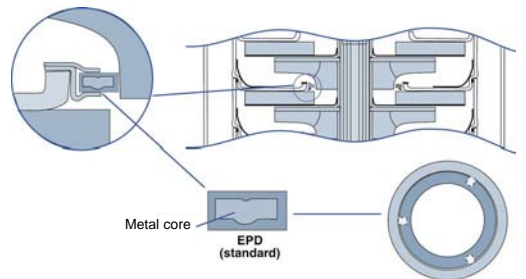
Lower mechanical seal position



#### Standard IEC motors

#### Liner ring

is a self-aligning, floating design constructed of EPD bonded to stainless steel to prevent swelling at high temperatures



#### Mechanical seal

Silicon/Carbon/FPM mechanical shaft seal



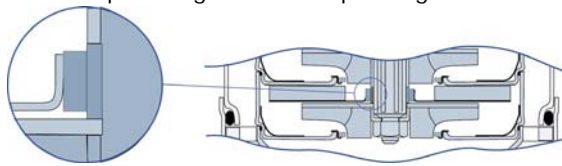
#### Positive Sealing

O-rings between intermediate casings provide positive sealing



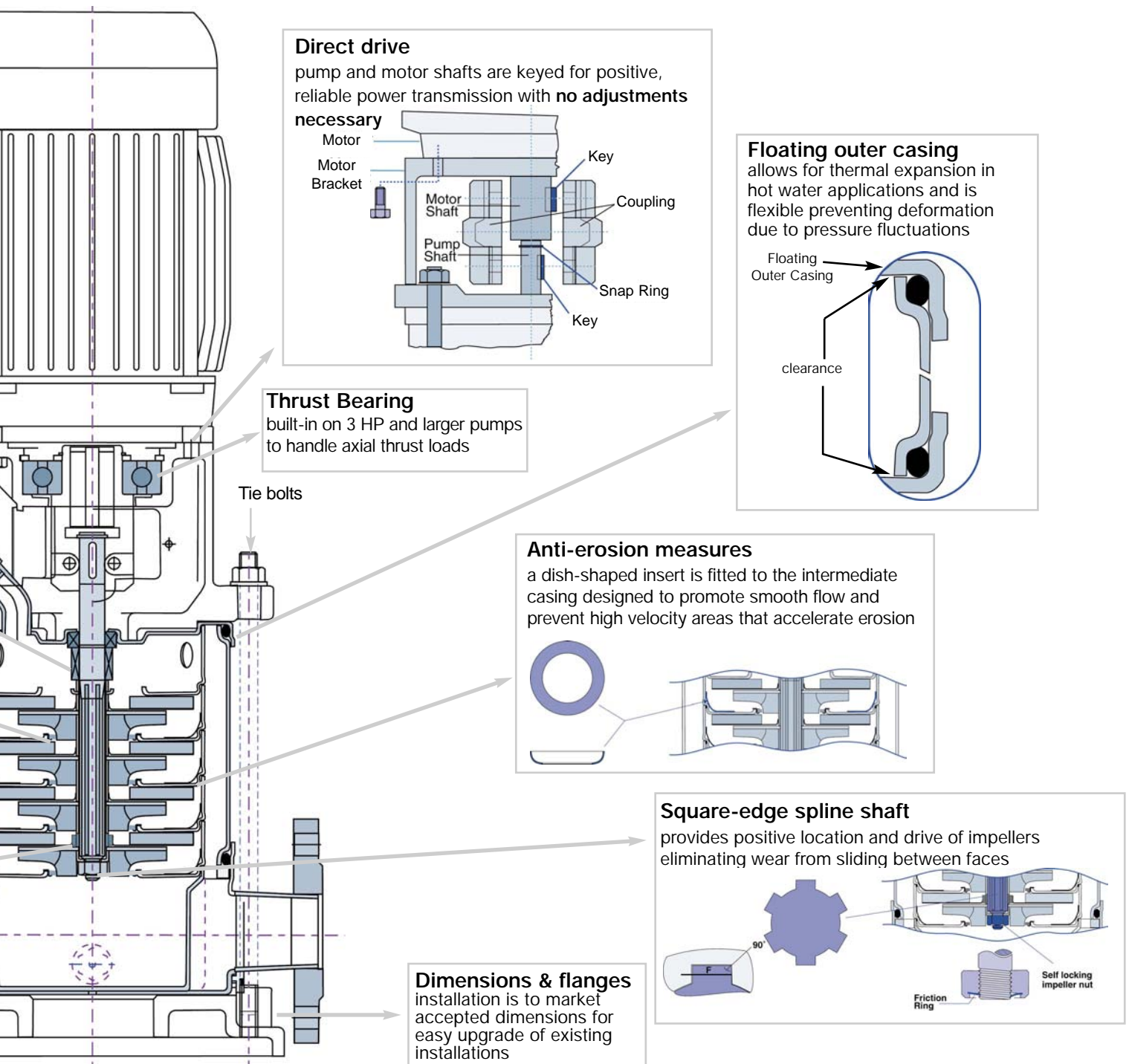
#### Tungsten carbide lower pump bearings and sleeves

are standard construction for all services providing maximum operating life

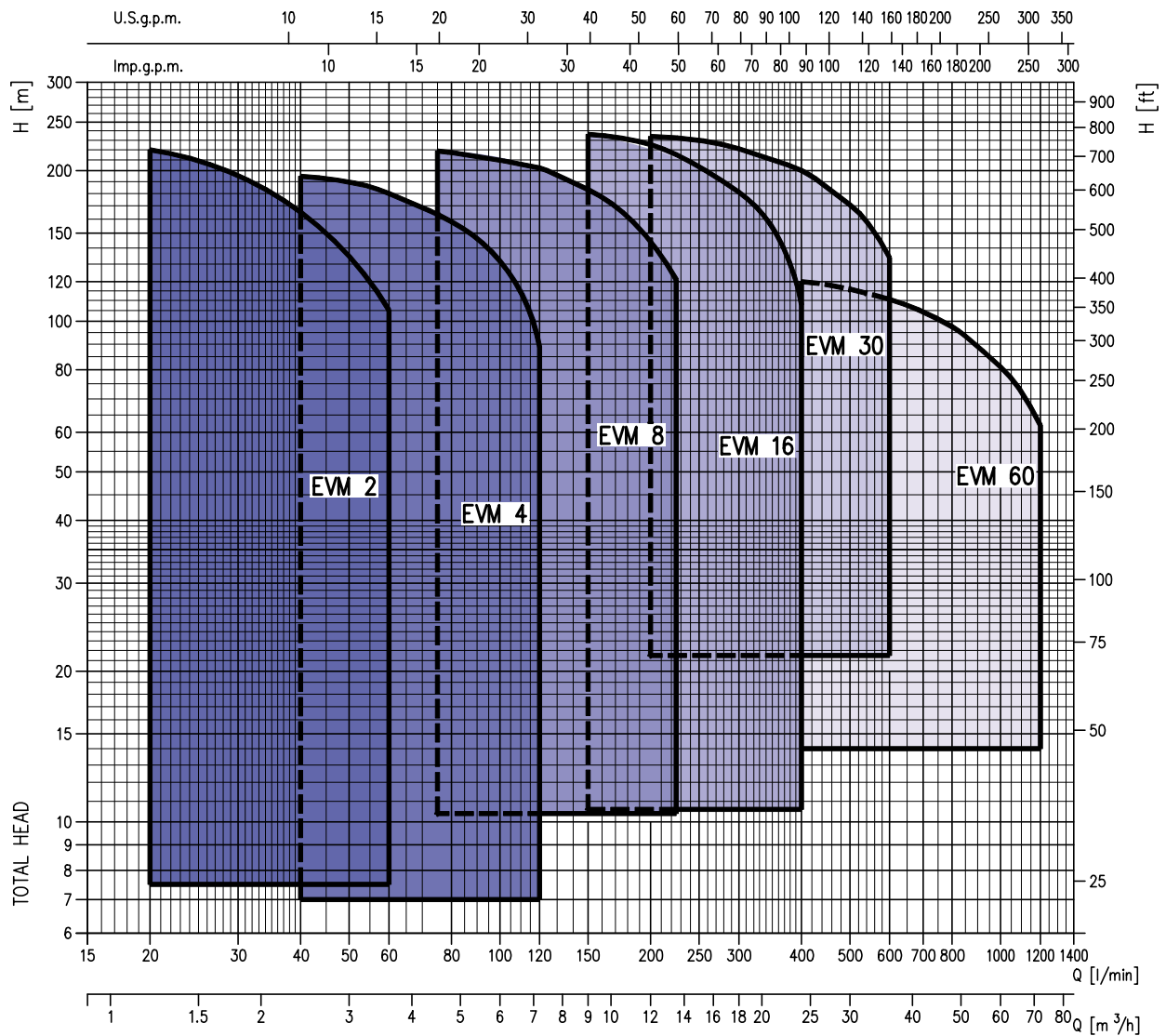


All wetted parts are constructed of high quality stainless steel.

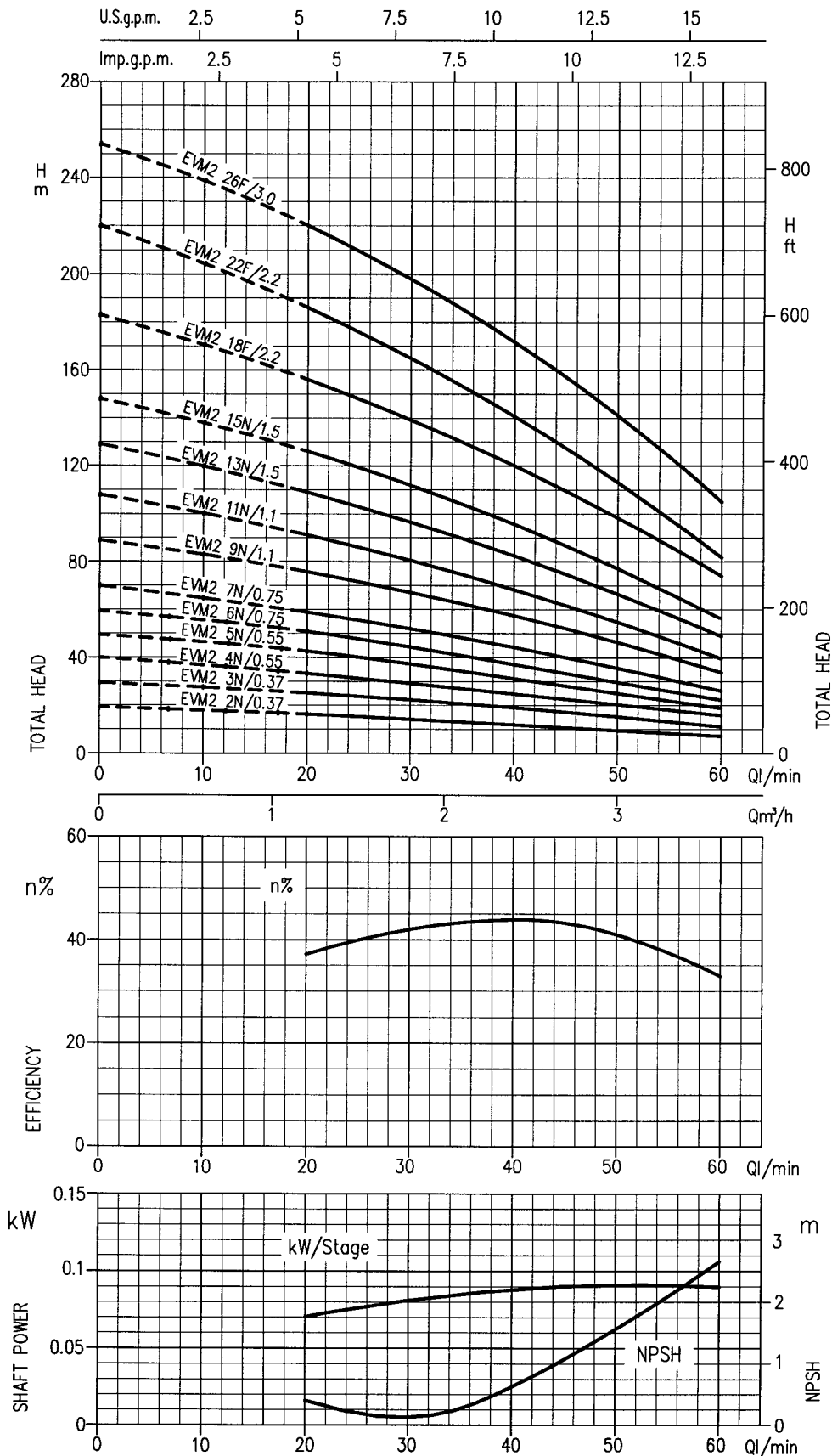
EBARA's robust construction extends to critical internal components such as the impellers. The back shrouds are as much as three times thicker than the front shrouds while front shrouds are 20% to 60% thicker than comparable designs.



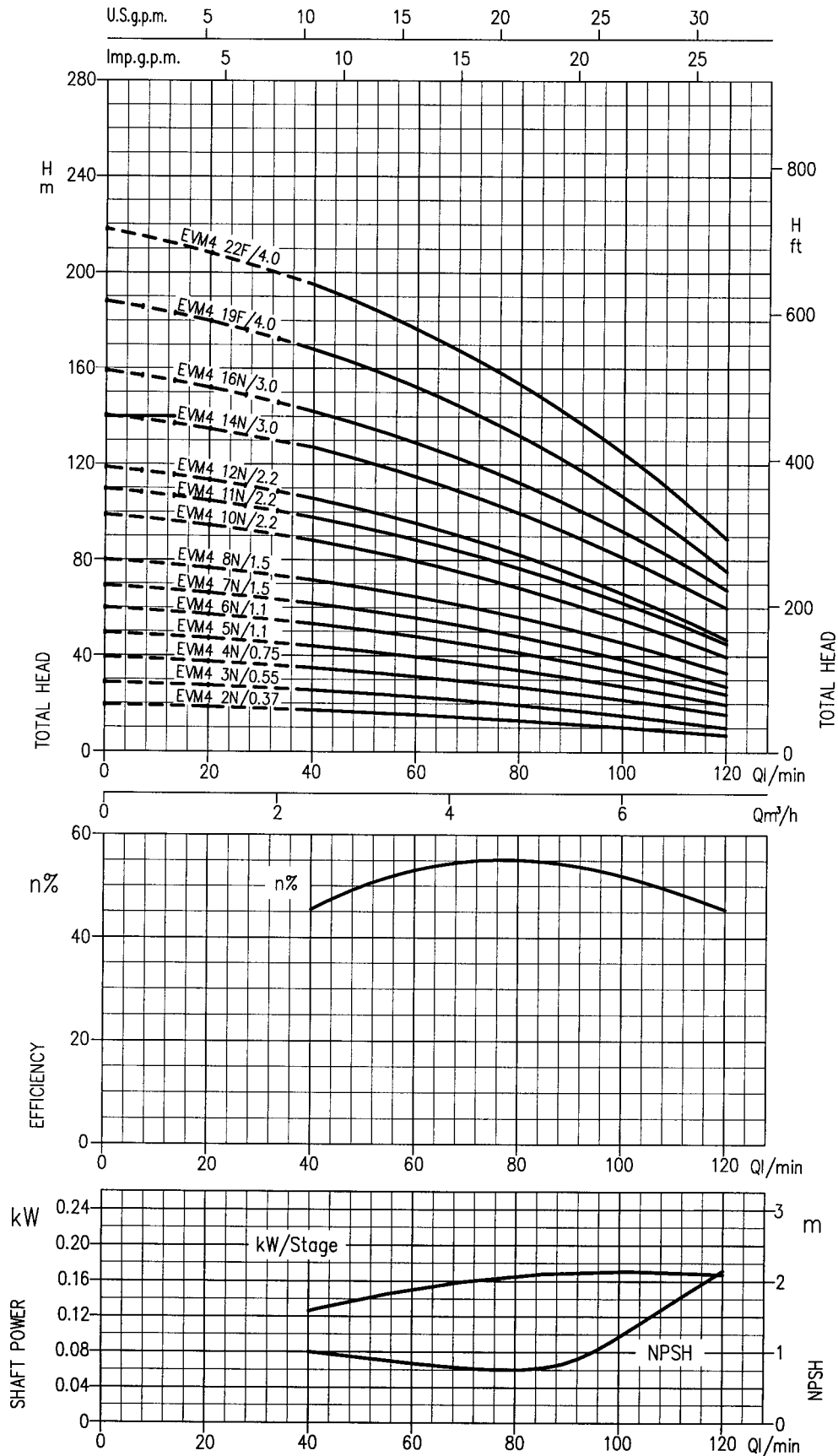
## PERFORMANCE CHART (according to ISO 9906 grade 2)



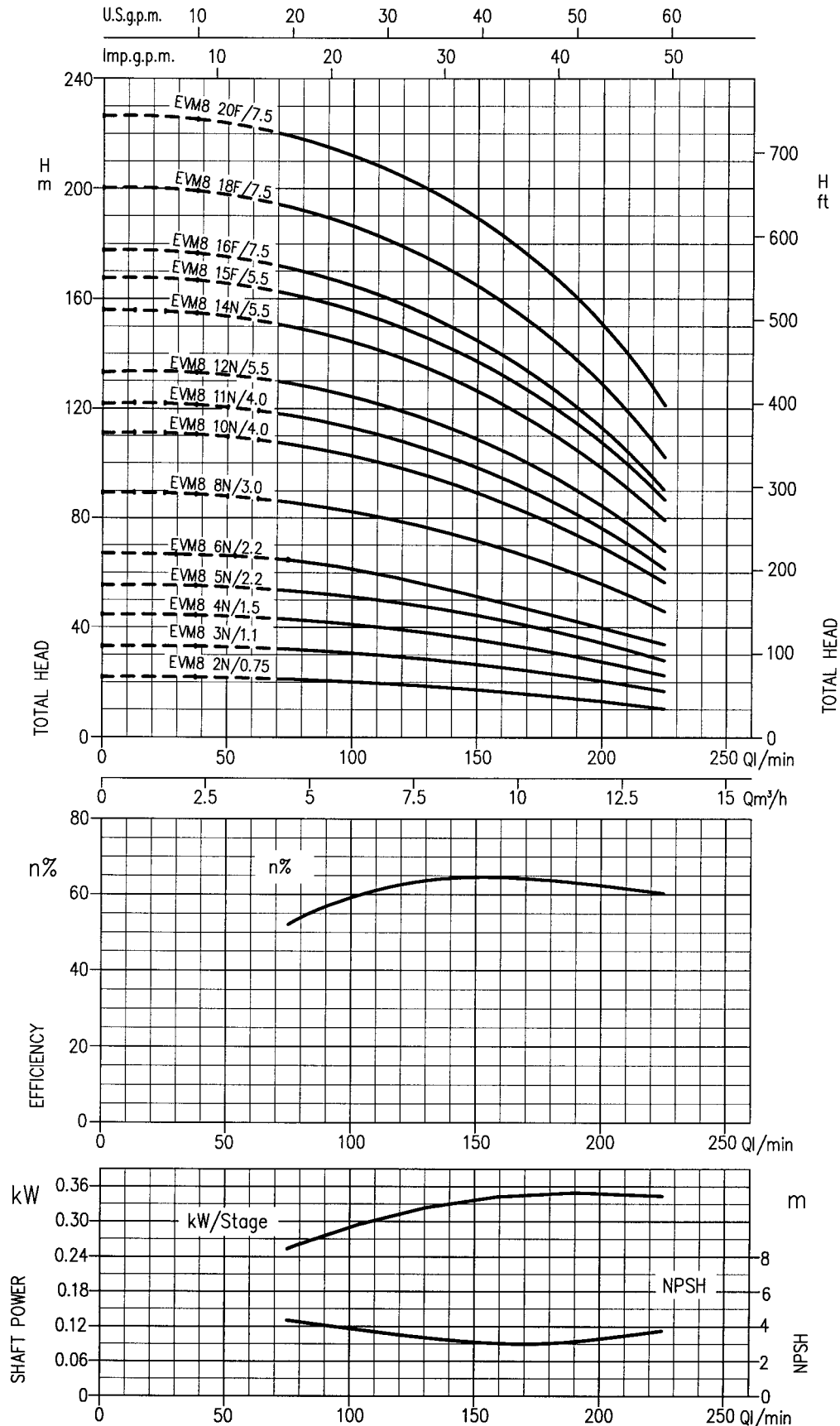
## PERFORMANCE CURVES (according to ISO 9906 Annex A)



## PERFORMANCE CURVES EVM4 series (according to ISO 9906 Annex A)

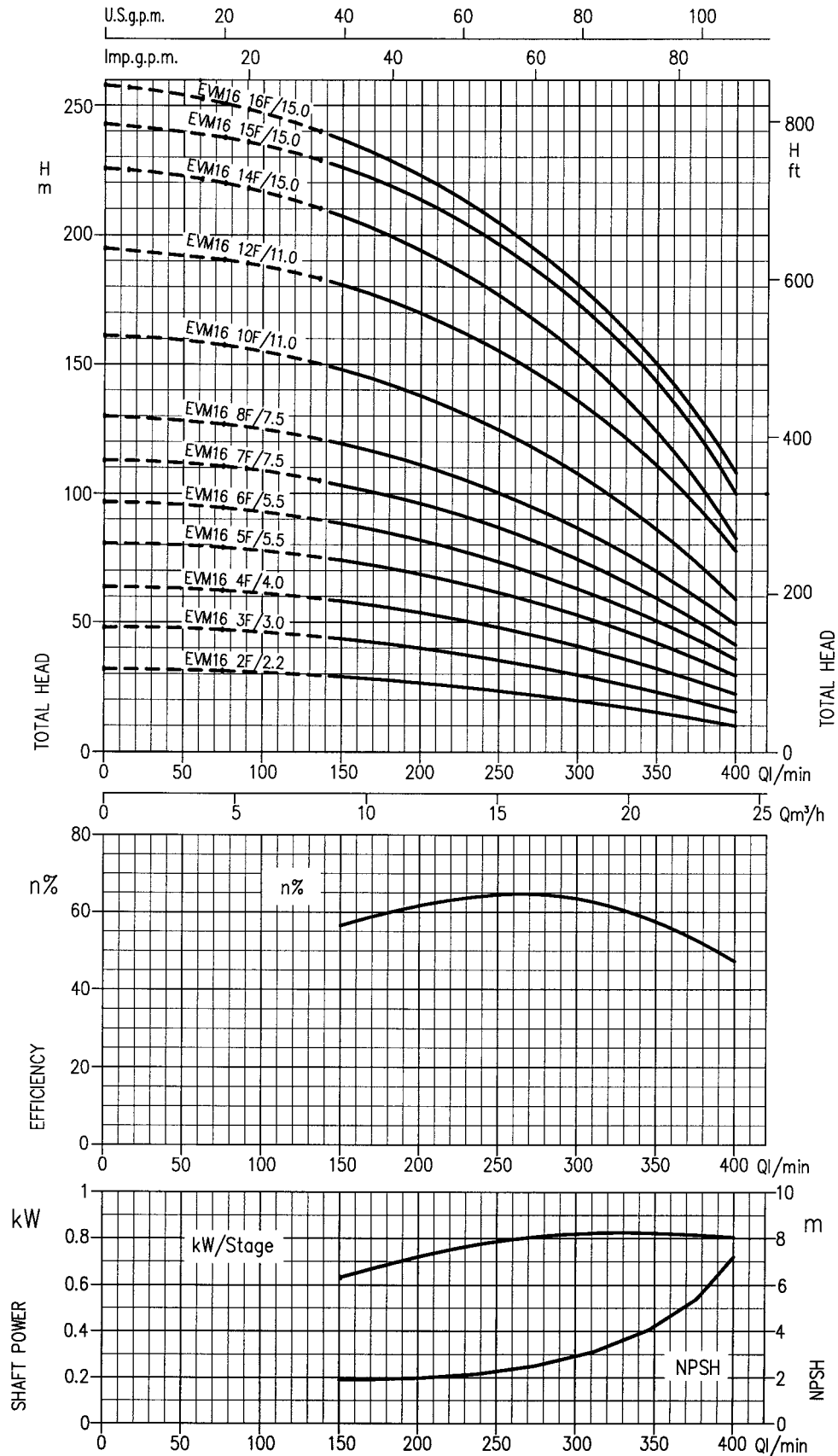


## PERFORMANCE CURVES EVM8 series (according to ISO 9906 Annex A)



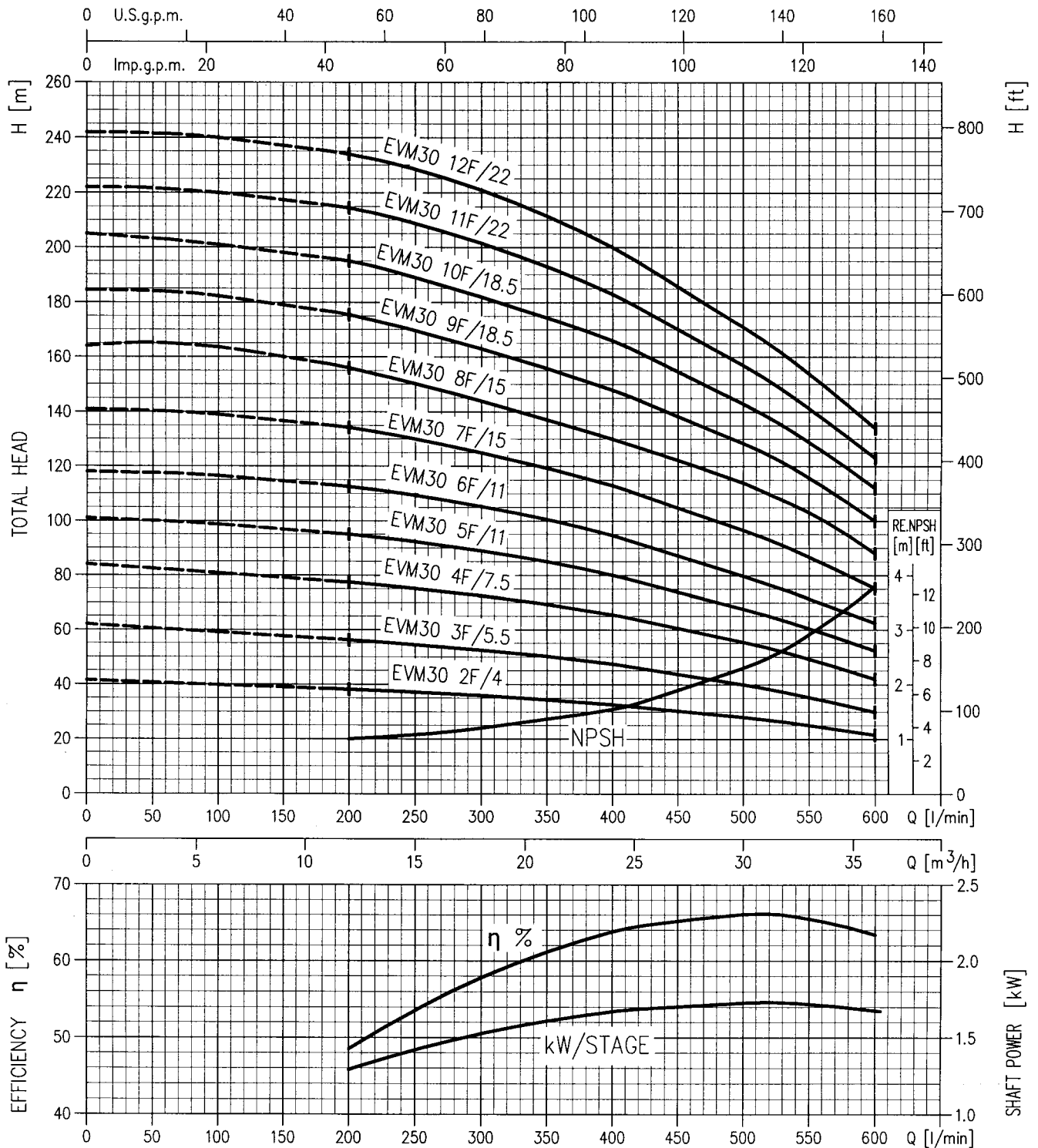


## PERFORMANCE CURVES EVM16 series (according to ISO 9906 Annex A)

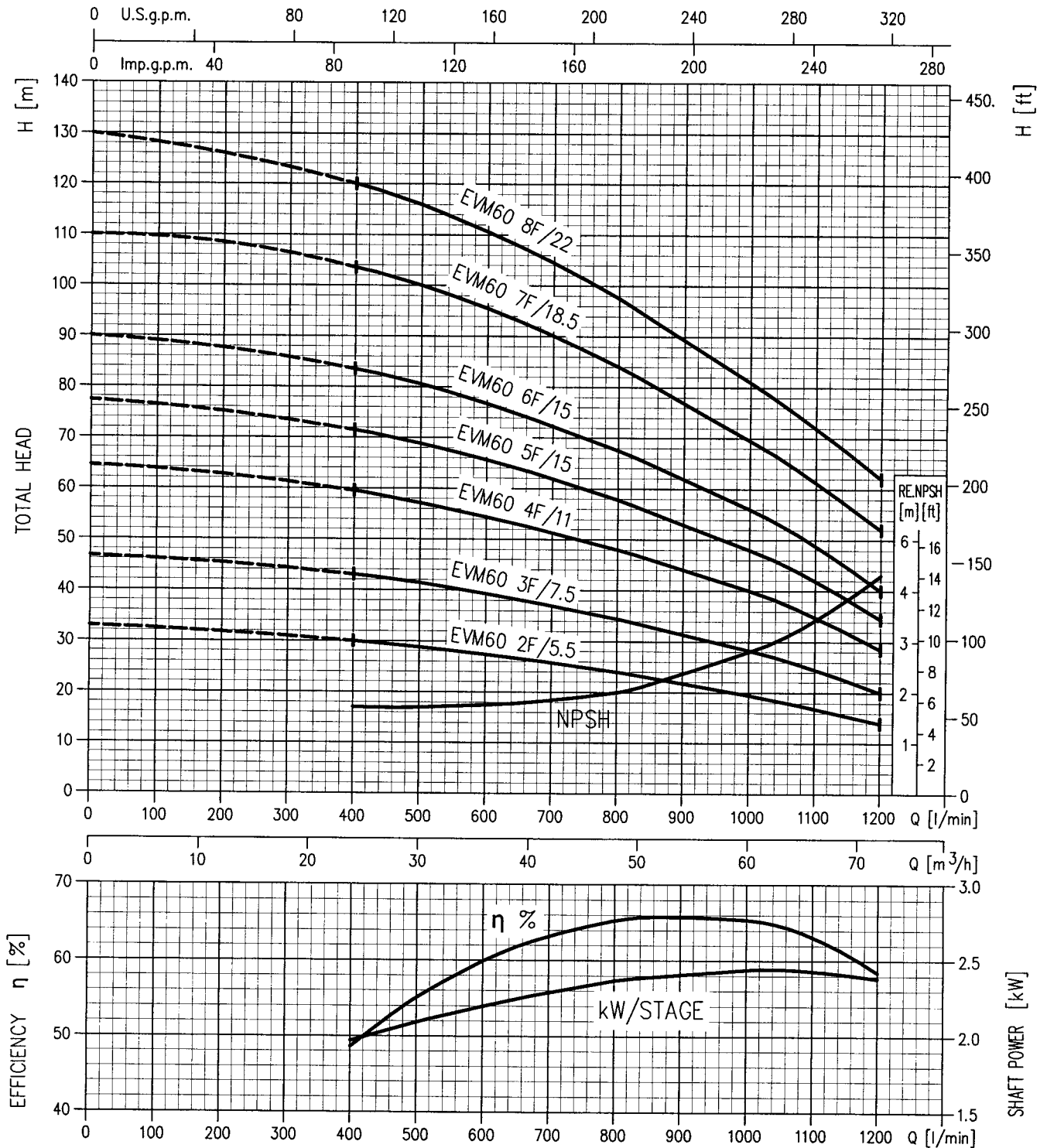


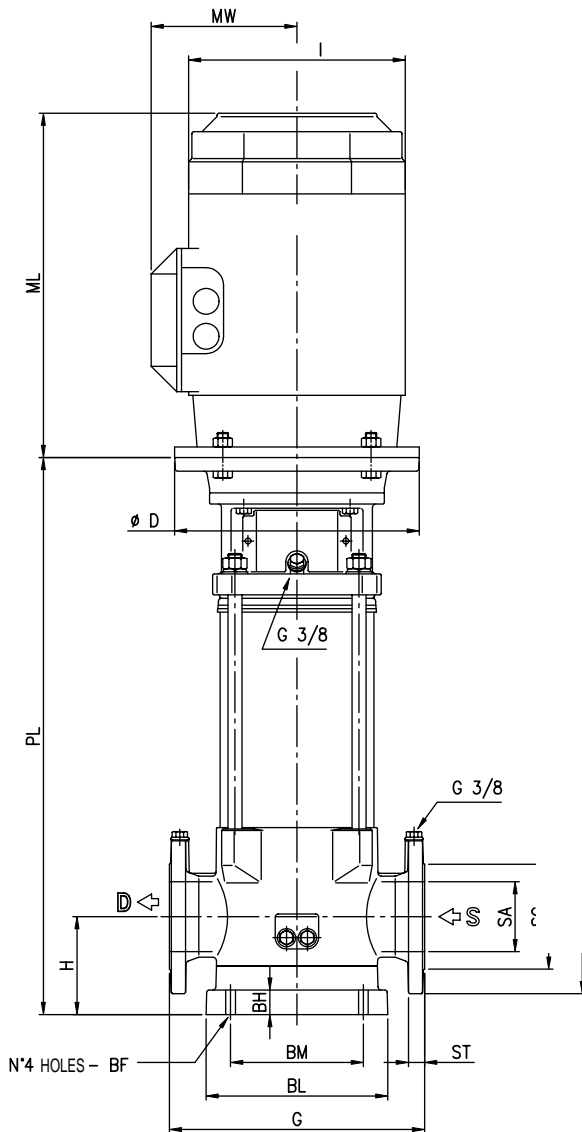


## PERFORMANCE CURVES EVM 30 series (according to ISO 9906 Annex A)

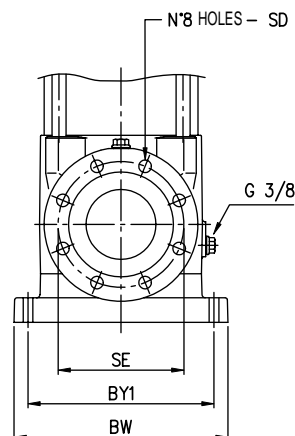
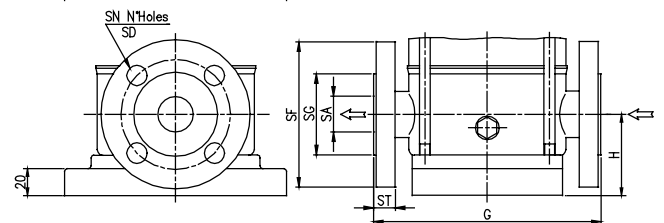
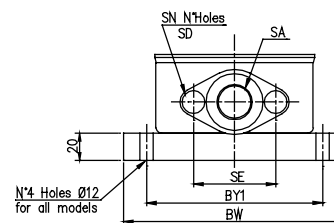


## PERFORMANCE CURVES EVM 60 series (according to ISO 9906 Annex A)





EVM 2-16



EVM 30-60

**DIMENSIONAL TABLE EVM 2-16**

Pump type EVM	Dimensions (mm)																				Weight kg				
	MEC	H	PL	ML		G	ØI		MW		BM	BL	BY1	BW	SA	SG	SE	SF	ST	SN	SD	V	solo pompe	1~	3~
				1~	3~		1~	3~	1~	3~															
EVM2 2N/0,37	71	50	226	185	208	160	140	141	106	102	100	149	180	210	G1"	-	75	-	-	2	M10	PG11	10,7	18,2	17,1
EVM2 3N/0,37	71	50	247	185	208	160	140	141	106	102	100	149	180	210	G1"	-	75	-	-	2	M10	PG11	11,4	18,9	17,8
EVM2 4N/0,55	71	50	268	185	208	160	140	141	106	102	100	149	180	210	G1"	-	75	-	-	2	M10	PG11	12,2	20,2	19,5
EVM2 5N/0,55	71	50	289	185	208	160	140	141	106	102	100	149	180	210	G1"	-	75	-	-	2	M10	PG11	14,7	20,9	20,2
EVM2 6N/0,75	80	50	320	214	234	160	158	159	121	110	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	13,6	24,6	22,6
EVM2 7N/0,75	80	50	341	214	234	160	158	159	121	110	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	14,4	25,4	23,4
EVM2 9N/1,1	80	50	383	214	234	160	158	159	121	110	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	15,9	28,5	26,4
EVM2 11N/1,1	80	50	425	214	234	160	158	159	121	110	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	17,3	29,9	27,8
EVM2 13N/1,5	90	50	477	245	250	160	178	180	131	126	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	20,7	39,2	35,7
EVM2 15N/1,5	90	50	519	245	250	160	178	180	131	126	100	149	180	210	G1"	-	75	-	-	2	M10	PG16	22,2	40,7	37,2
EVM2 18F/2,2	90	75	607	245	278	250	178	180	131	126	100	149	180	210	Ø25	Ø70	85	Ø120	16	4	Ø14	PG16	27	47	45
EVM2 22F/2,2	90	75	691	245	278	250	178	180	131	126	100	149	180	210	Ø25	Ø70	85	Ø120	16	4	Ø14	PG16	30	50	48
EVM2 26F/3,0	100	75	785	-	303	250	-	200	-	135	100	149	180	210	Ø25	Ø70	85	Ø120	16	4	Ø14	PG16	32,9	-	53,9
EVM4 2N/0,37	71	50	240	185	208	160	140	141	106	102	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG11	11,1	18,6	17,5
EVM4 3N/0,55	71	50	268	185	208	160	140	141	106	102	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG11	11,9	19,9	19,2
EVM4 4N/0,75	80	50	306	214	234	160	158	159	121	110	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	20,8	23,6	20,8
EVM4 5N/1,1	80	50	334	214	234	160	158	159	121	110	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	17,3	25,9	23
EVM4 6N/1,1	80	50	362	214	234	160	158	159	121	110	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	16,2	26,7	23,8
EVM4 7N/1,5	90	50	400	245	250	160	178	180	131	126	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	17,2	35,2	28,7
EVM4 8N/1,5	90	50	428	245	250	160	178	180	131	126	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	18,8	36	29,5
EVM4 10N/2,2	90	50	484	245	278	160	178	180	131	126	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	22	37,5	35
EVM4 11N/2,2	90	50	512	245	278	160	178	180	131	126	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	24,5	38,2	35,7
EVM4 12N/2,2	90	50	550	245	278	160	178	180	131	126	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	25,6	39,5	37,5
EVM4 14N/3,0	100	50	606	-	303	160	-	200	-	135	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	29,5	-	42,9
EVM4 16N/3,0	100	50	662	-	303	160	-	200	-	135	100	149	180	210	G1" 1/2	-	75	-	-	2	M10	PG16	30,5	-	44,4
EVM4 19F/4,0	112	75	771	-	301	250	-	221	-	146	100	149	180	210	Ø32	Ø78	100	Ø140	16	4	Ø14	PG16	29,2	-	51,2
EVM4 22F/4,0	112	75	855	-	301	250	-	221	-	146	100	149	180	210	Ø32	Ø78	100	Ø140	16	4	Ø14	PG16	31,5	-	53,5
EVM8 2N/0,75	80	80	327	214	234	200	158	159	121	110	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	18,6	29,6	26,8
EVM8 3N/1,1	80	80	357	214	234	200	158	159	121	110	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	19,5	30,5	29,2
EVM8 4N/1,5	90	80	397	245	250	200	178	180	131	126	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	26,9	38,9	32,4
EVM8 5N/2,2	90	80	427	245	278	200	178	180	131	126	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	25,2	41,3	37,3
EVM8 6N/2,2	90	80	457	245	278	200	178	180	131	126	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	27,2	42,3	38,3
EVM8 8N/3,0	100	80	527	-	303	200	-	200	-	135	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	24,1	-	44,1
EVM8 10N/4,0	112	80	617	-	301	200	-	221	-	146	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	26	-	48
EVM8 11N/4,0	112	80	647	-	301	200	-	221	-	146	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG16	26,9	-	48,9
EVM8 12N/5,5	132	80	667	-	367	200	-	261	-	163,5	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG21	59,6	-	60,3
EVM8 14N/5,5	132	80	727	-	367	200	-	261	-	163,5	130	190	215	250	G1" 1/2	-	100	-	-	2	M12	PG21	62,8	-	62,2
EVM8 15F/5,5	132	80	757	-	367	280	-	261	-	163,5	130	190	215	250	Ø40	Ø88	110	Ø150	18	4	Ø19	PG21	65	-	66,8
EVM8 16F/7,5	132	80	787	-	367	280	-	261	-	163,5	130	190	215	250	Ø40	Ø88	110	Ø150	18	4	Ø19	PG21	59	-	74,2
EVM8 18F/7,5	132	80	847	-	367	280	-	261	-	163,5	130	190	215	250	Ø40	Ø88	110	Ø150	18	4	Ø19	PG21	60,5	-	76,1
EVM8 20F/7,5	132	80	907	-	367	280	-	261	-	163,5	130	190	215	250	Ø40	Ø88	110	Ø150	18	4	Ø19	PG21	61	-	77,9
EVM16 2F/2,2	90	90	367	245	278	300	178	180	131	126	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG16	34	48	44
EVM16 3F/3,0	100	90	417	-	303	300	-	200	-	135	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG16	36	-	49,1
EVM16 4F/4,0	112	90	457	-	301	300	-	221	-	146	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG16	38,5	-	62
EVM16 5F/5,5	132	90	517	-	367	300	-	261	-	163,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG21	48,2	-	63,8
EVM16 6F/5,5	132	90	557	-	367	300	-	261	-	163,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG21	49	-	95,5
EVM16 7F/7,5	132	90	597	-	367	300	-	261	-	163,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG21	51,5	-	97,5
EVM16 8F/7,5	132	90	637	-	367	300	-	261	-	163,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG21	53	-	98,8
EVM16 10F/11	160	90	747	-	492,5	300	-	310	-	208,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG29	64	-	138
EVM16 12F/11	160	90	827	-	492,5	300	-	310	-	208,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG29	62	-	139,2
EVM16 14F/15	160	90	907	-	492,5	300	-	310	-	208,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG29	70,5	-	140,2
EVM16 15F/15	160	90	947	-	492,5	300	-	310	-	208,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG29	72,2	-	141,4
EVM16 16F/15	160	90	987	-	492,5	300	-	310	-	208,5	130	190	215	250	Ø50	Ø102	125	Ø165	18	4	Ø18	PG29	74	-	142,2

**DIMENSIONAL TABLE EVM 30-60**

Pump type	Motor type	Dimensions (mm)																			Weights	
	Size	H	PL	ML	D	G	I	MW	SA	SG	SE	SF	ST	SD	BL	BW	BM	BY1	BF	BH	Pump ( kgf )	Motor ( kgf )
EVM30 2F/4	112	105	502	301	250	320	221	146	65	122	145	185	22	18	210	280	170	240	14	35	60,5	25
EVM30 3F/5,5	132	105	571	367	300	320	261	163,5	65	122	145	185	22	18	210	280	170	240	14	35	75,5	37
EVM30 4F/7,5	132	105	619	367	300	320	261	163,5	65	122	145	185	22	18	210	280	170	240	14	35	79	42
EVM30 5F/11	160	105	697	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	93	73
EVM30 6F/11	160	105	745	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	96	73
EVM30 7F/15	160	105	793	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	100	84
EVM30 8F/15	160	105	841	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	103	84
EVM30 9F/18,5	160	105	889	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	106,5	94
EVM30 10F/18,5	160	105	937	492,5	350	320	310	208,5	65	122	145	185	22	18	210	280	170	240	14	35	110	94
EVM30 11F/22	180	105	985	570	350	320	360	223,5	65	122	145	185	22	18	210	280	170	240	14	35	115,5	119
EVM30 12F/22	180	105	1033	570	350	320	360	223,5	65	122	145	185	22	18	210	280	170	240	14	35	119	119
EVM60 2F/5,5	132	140	623,5	367	300	365	261	163,5	100	150	180	220	24	18	260	306	190	266	14	35	84,5	37
EVM60 3F/7,5	132	140	695,5	367	300	365	261	163,5	100	150	180	220	24	18	260	306	190	266	14	35	88,5	42
EVM60 4F/11	160	140	797,5	492,5	350	365	310	208,5	100	150	180	220	24	18	260	306	190	266	14	35	104	73
EVM60 5F/15	160	140	869,5	492,5	350	365	310	208,5	100	150	180	220	24	18	260	306	190	266	14	35	108	84
EVM60 6F/15	160	140	941,5	492,5	350	365	310	208,5	100	150	180	220	24	18	260	306	190	266	14	35	112	84
EVM60 7F/18,5	160	140	1013,5	492,5	350	365	310	208,5	100	150	180	220	24	18	260	306	190	266	14	35	116	94
EVM60 8F/22	180	140	1085,5	570	350	365	360	223,5	100	150	180	220	24	18	260	306	190	266	14	35	123	119

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 & crates. Process applications such as paint plants & general dirty liquid handling. An IP68 submersible is also available.



## SPECIFICATIONS

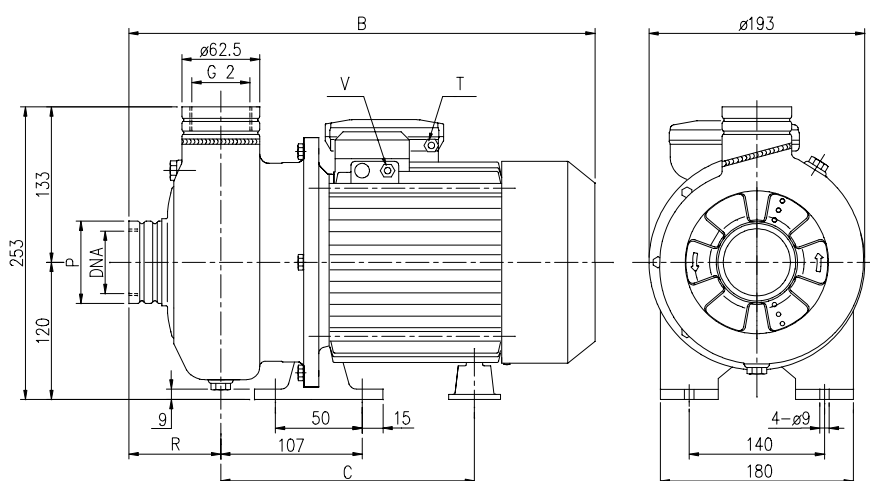
- Maximum working pressure: 8 bar
- Maximum liquid temperature: 90°C
- Passage of solids: maximum diameter of 19 mm

## MATERIALS

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

## TECHNICAL DATA

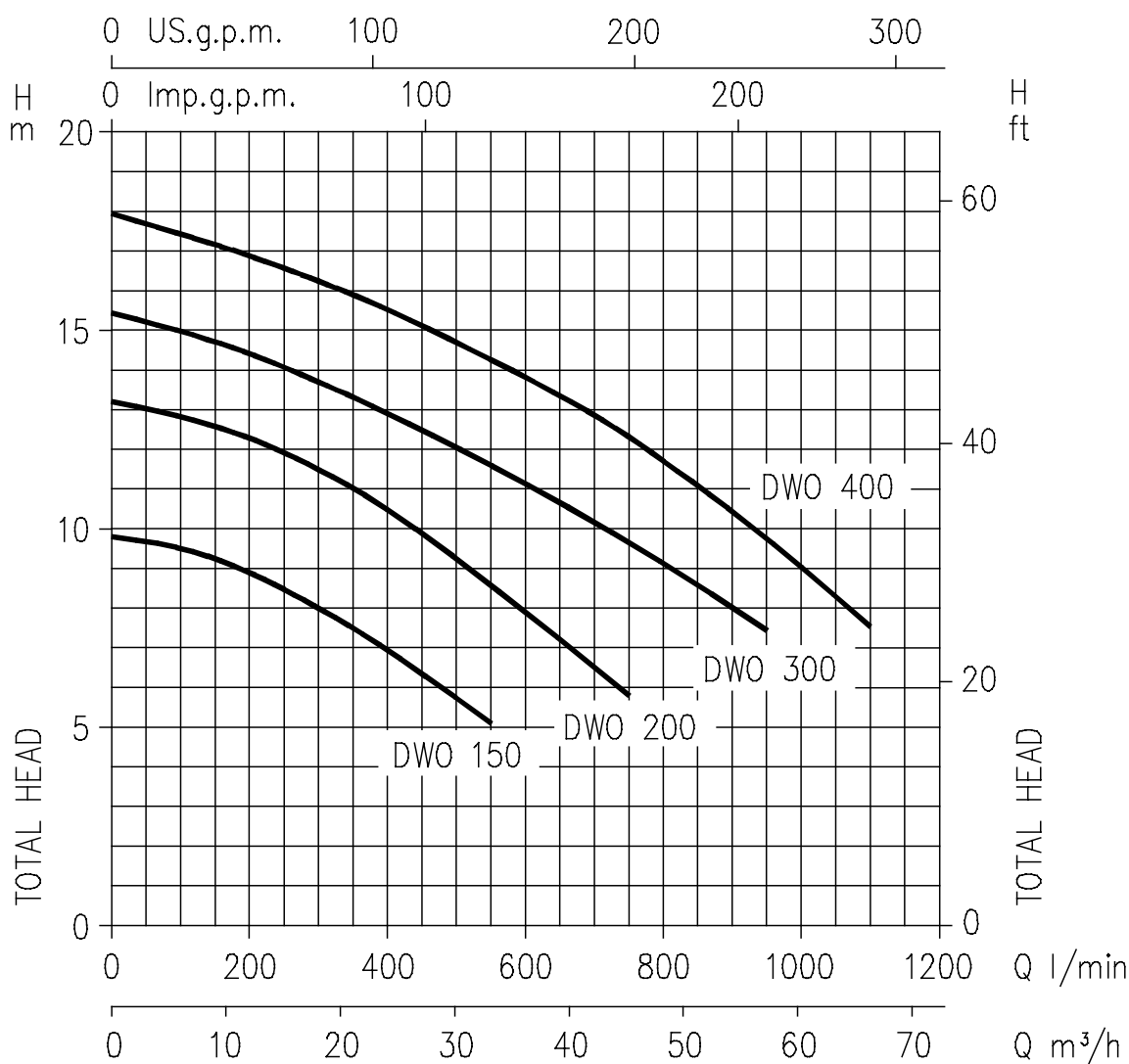
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA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



## DIMENSIONAL TABLE

Pump type		Dimensions (mm)							Weight	
		B	C	R	Ø P	V	T	Ø DNA	kg	
Single-phase	Three-phase					3~	1~		1~	3~
DWO 150 M	DWO 150	364	198,5	74	62,5	PG11	PG13,5	G 2		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 $\frac{1}{2}$		16,9
-	DWO 400	415	240,5	78	80	PG13,5	-	G 2 $\frac{1}{2}$	-	20,0

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



## PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		100	200	300	400	550	750	950	1100
									6	12	18	24	33	42	57	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

Single impeller centrifugal pumps manufactured cast iron, suitable for pressure boosting of water for irrigation, and non-aggressive liquids for civil and industrial uses.

CMR series is fitted with an open impeller for suspended solids handling.



### SPECIFICATIONS

- Maximum working pressure: 6 bar, 8 bar for CMA 1.50-2.00-3.00 – CMB 4.40-5.50
- Maximum liquid temperature: 35°C according EN 60335-2-41 for domestic uses 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 0.50-0.75-0.80-1.00  
- in brass for CMA 1.50-2.00-3.00 CMB 2.00-3.00-4.00-5.50 CMR 0.75-1.00  
- in cast iron for the other models.
- Shaft: - in AISI 303 for CMA 0.75-0.80-1.00 1.50-2.00-3.00 CMB 1.50-2.00-3.00 CMD 1.50-2.00-3.00  
- in AISI 304 for CMB 4.00-5.50 CMD 4.00  
- in AISI 416 for CMA 0.50
- Bracket: - in aluminium for CMA 0.50-0.75-0.80-1.00 CMB 0.75-1.00 CMC 0.75-1.00 CMR 0.75-1.00  
- in cast iron for the other models

### TECHNICAL DATA

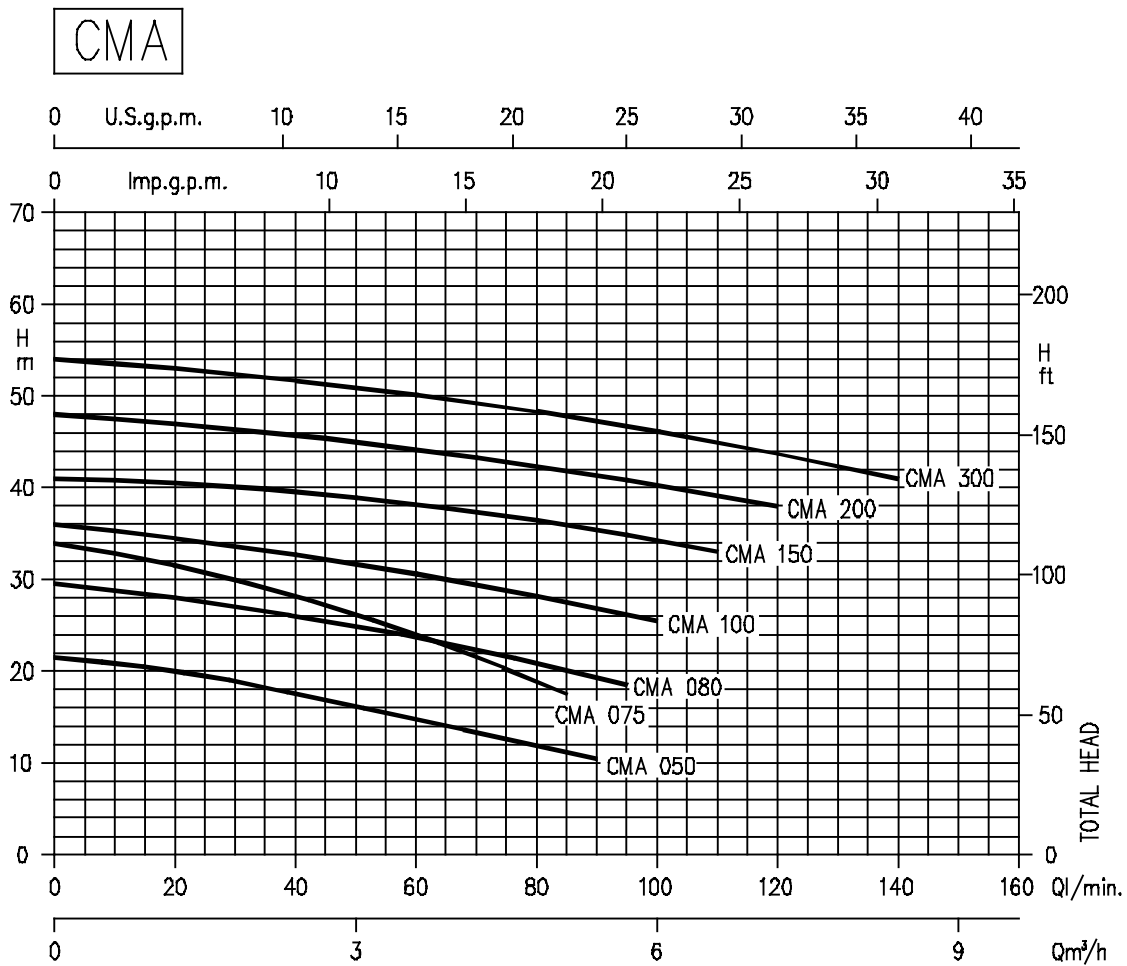
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version



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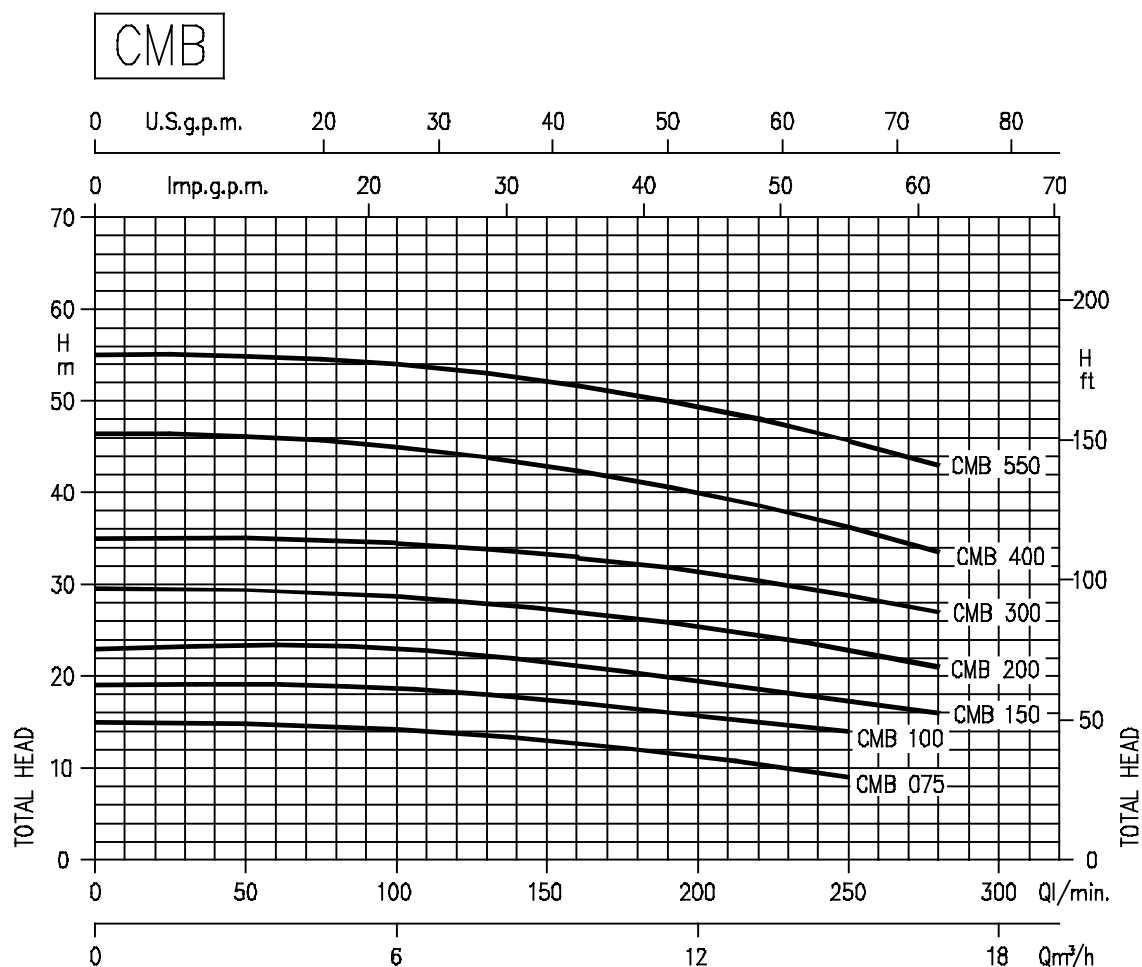
### PERFORMANCE CURVES (according to ISO 9906 Annex A)



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity											
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20	40	60	80	85	90	95	100	110	120	140	
									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	28,2	27,6	26,9	26,2	25,5	-	-	-		
CMA 1.50 M	CMA 1.50 T	1,1	35	450	8	5,4	3,1	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	10,3	7,5	4,3	47	45,8	44,2	42,4	41,9	41,4	40,9	40,3	39,2	38	-		
-	CMA 3.00 T	2,2	-	-	-	9,5	5,5	53	51,8	50,2	48,3	47,8	47,3	46,7	46,2	45	43,7	41		

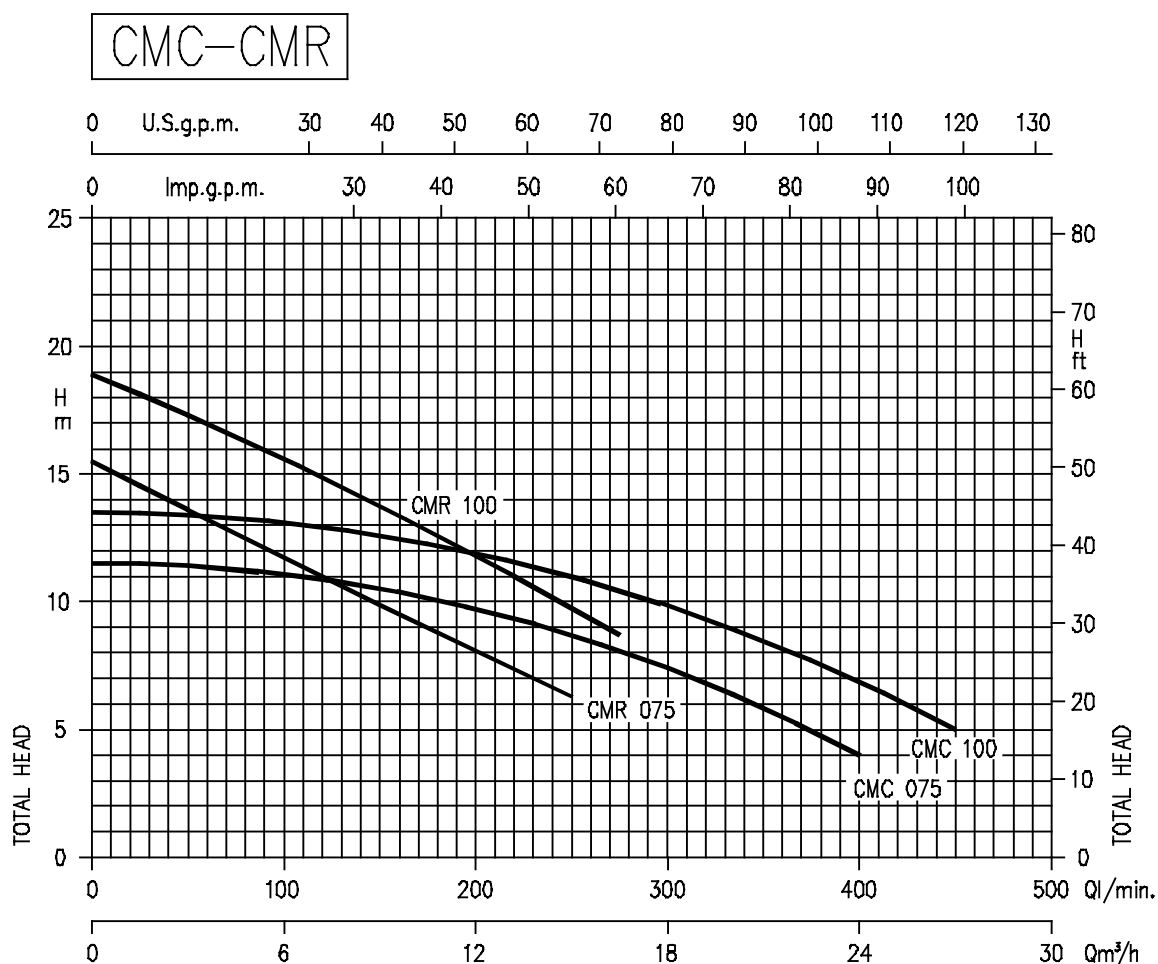
### PERFORMANCE CURVES (according to ISO 9906 Annex A)



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity					
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		100	140	180	220	250	280
									6	8,4	11	13	15	17
									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	4,5	2,6		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	-	-	-	12,0	6,9		45	43,4	41,5	38,4	36,2	33,5
-	CMB 5.50 T	4,0	-	-	-	15,9	9,2		54	52,3	50,4	48,1	45,7	43

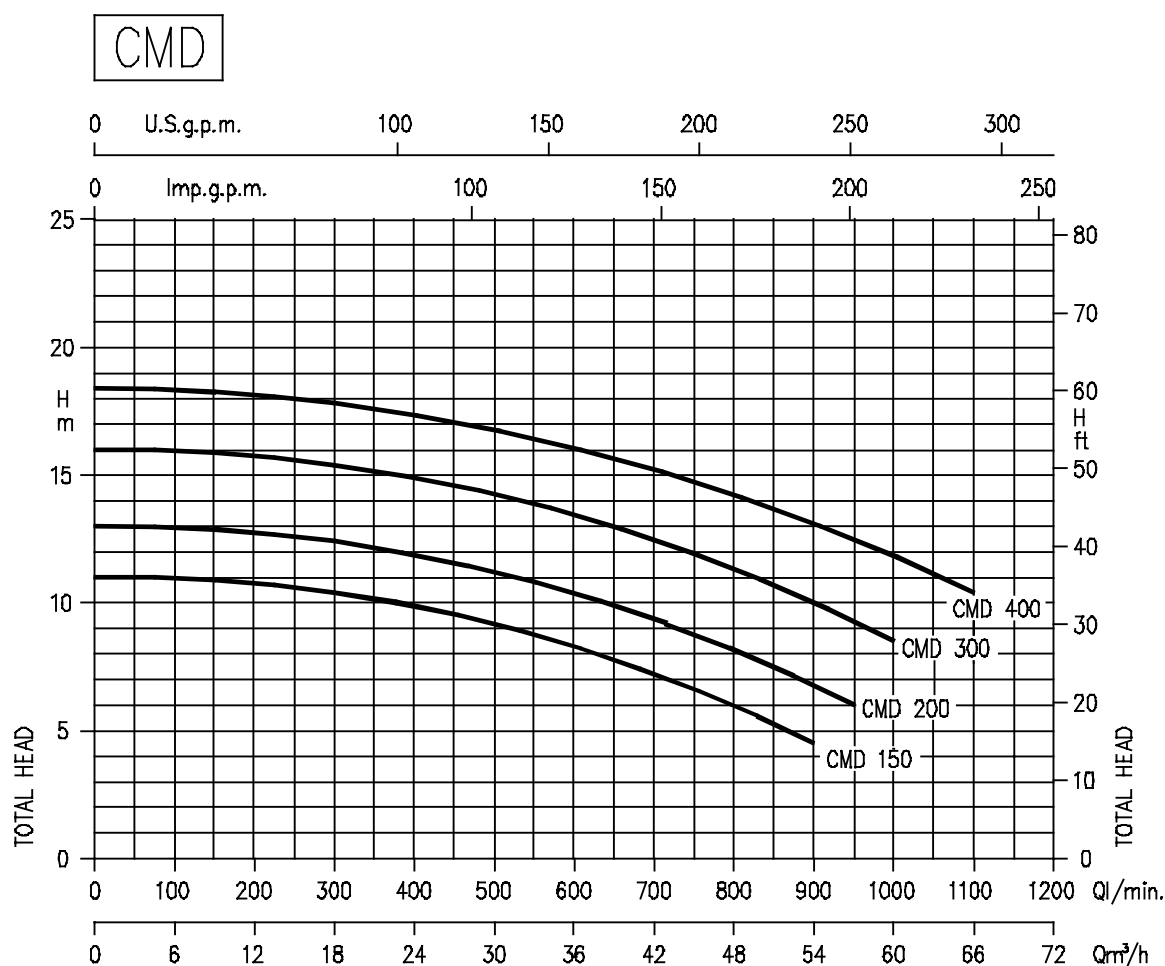
### PERFORMANCE CURVES (according to ISO 9906 Annex A)



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Corrente as. (A)			l/min m³/h	Q=Capacity										
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		50	100	150	200	250	275	350	400	450		
		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	3,8	2,8	1,6	13,6	11,4		8,1	6,3	-						
CMR 1.00 M	CMR 1.00 T	0,75	20	450	4,85	3,5	2,0	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 m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		300	400	600	800	900	950	1000	1100
									18	24	36	48	54	57	60	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

## CENTRIFUGAL PUMPS - TWIN IMPELLER in cast iron

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



### SPECIFICATIONS

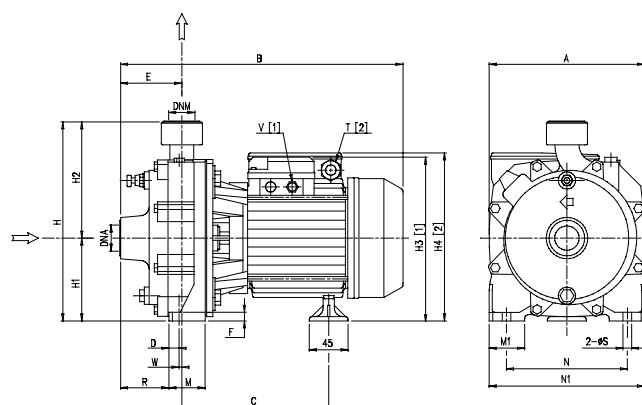
- Maximum working pressure: 6 bar for CDA 0.75-1.00  
10 bar for other models
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for CDA 0.75-1.00  
90°C for other models

### 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

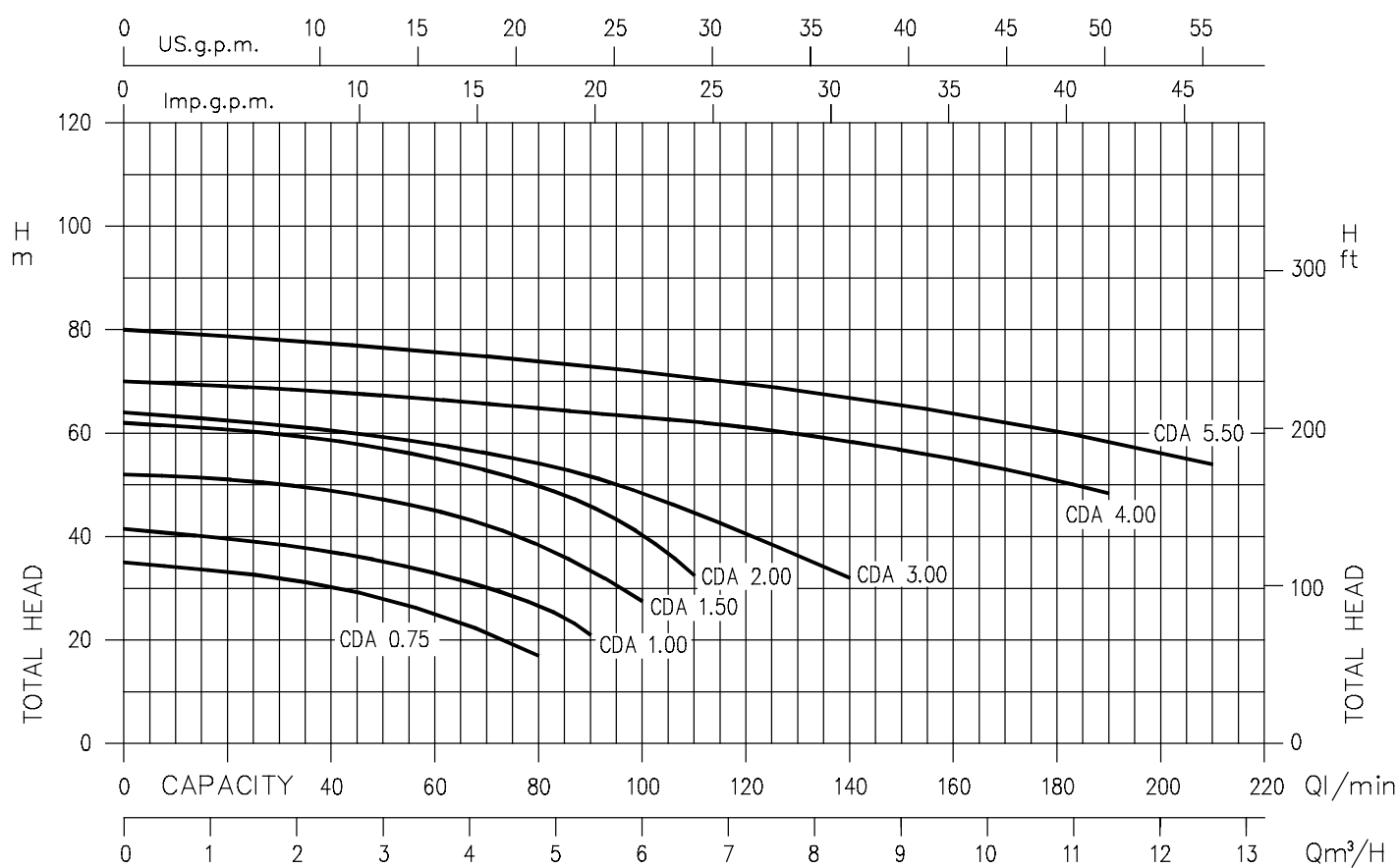
- T.E.F.C. 2 poles motor
- Insulation class F
- Protection degree IP44
- 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version



### 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
Single-phase	Three-phase										1~	3~						1~	3~					
CDA 0.75 M	CDA 0.75 T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	198	42	40	140	180	57,5	PG11	PG11	6,8	9,5	G 1	G 1	13,5
CDA 1.00 M	CDA 1.00 T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	198	42	40	140	180	57,5	PG11	PG11	6,8	9,5	G 1	G 1	15,0
CDA 1.50 M	CDA 1.50 T	209	394,8	218,3	8,3	86	9	265	110	155	224	242	48	40	155	195	65,5	PG13,5	PG11	12,3	9,5	G 1¼	G 1	25,0
CDA 2.00 M	CDA 2.00 T	209	410,8	218,3	8,3	86	9	265	110	155	224	242	48	40	155	195	65,5	PG13,5	PG11	12,3	9,5	G 1¼	G 1	27,0
-	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	27,0
-	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	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	12	G 1½	G 1¼	46,3

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



## PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity											
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		μF	V <sub>c</sub>	Single-phase	Three-phase 230V	400V		20	40	50	80	90	100	110	140	170	190	210	
									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		



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  $-10^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$
- $110^{\circ}\text{C}$  for H version

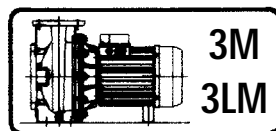
### MATERIALS

- 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 (3 series), in SiC/SiC/FPM (3L series)
- Mechanical seal in carbon/ceramic/Viton for H version
- Mechanical seal on SiC/SiC/FPM for HS version

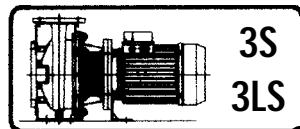
### TECHNICAL DATA

- Asynchronous 2 and 4 poles motor
- Insulation class F
- Protection degree IP55
- $1\sim 230\pm 10\%$
- $3\sim 230/400\text{V} \pm 10\%$  50Hz up to 4kW included,  $400/690\text{V} \pm 10\%$  above
- Thermal protection to be provided by the user

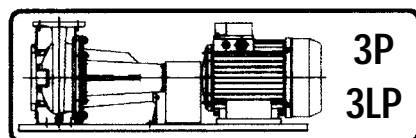
Available in 4 different versions, 2 and 4 poles



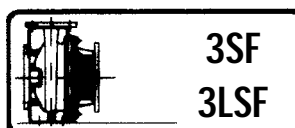
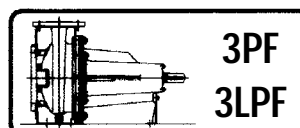
monobloc with extended motor shaft



monobloc with standard motor and flexible coupling

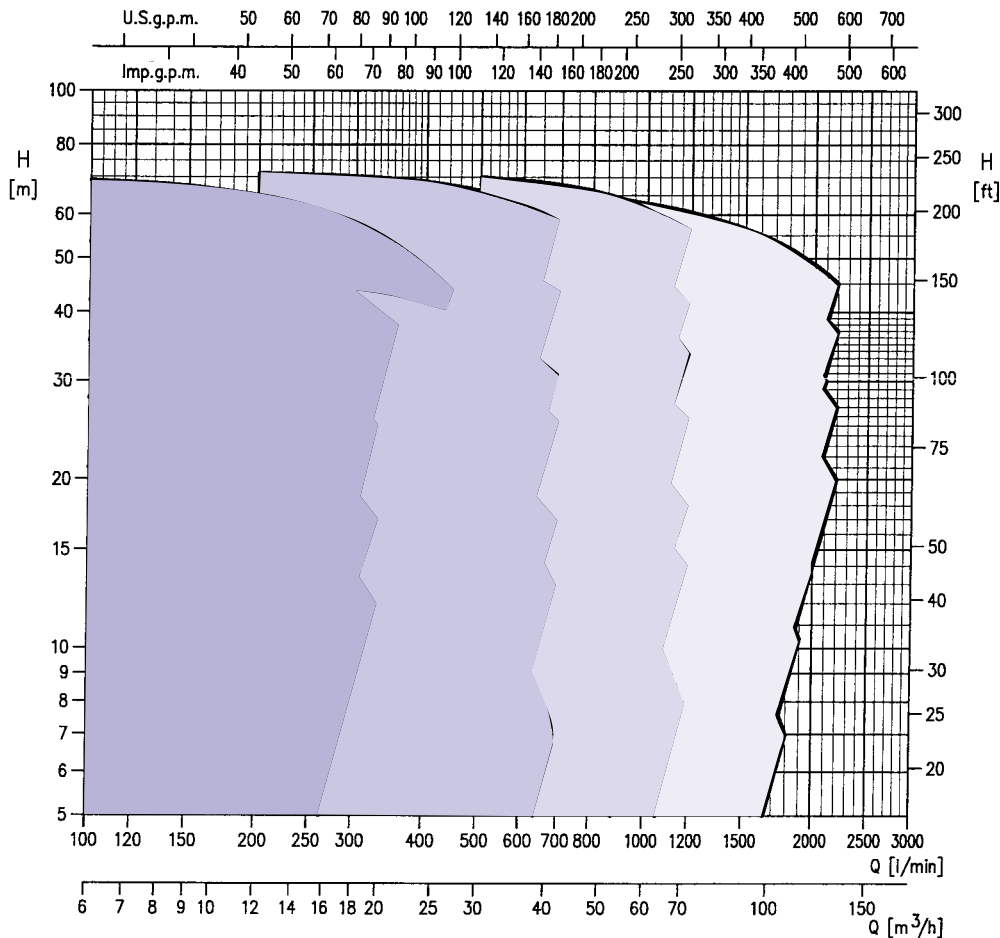


on basement with standard motor and flexible coupling



bare shaft pump

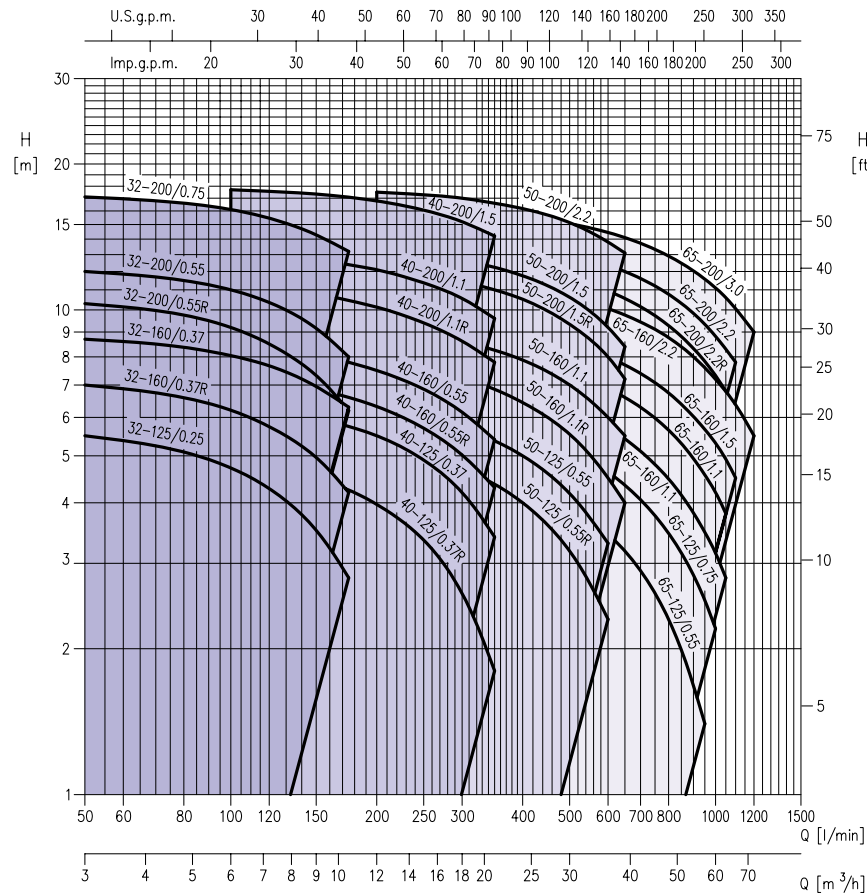
### PERFORMANCE CHART at 2900 min<sup>-1</sup> (according to ISO 9906 Annex A)



### PERFORMANCE TABLE

Pump type 3(L)M	kW	HP	Absorbed Current (A)			l/min m³/h	Q=Capacity																					
			Three-phase				0	100	150	200	300	333	360	400	450	500	600	700	800	1000	1200	1500	1800	1900	2000	2100	2200	
			230V	400V	690V		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	-	

### PERFORMANCE CHART at 1450 min<sup>-1</sup> (according to ISO 9906 Annex A)

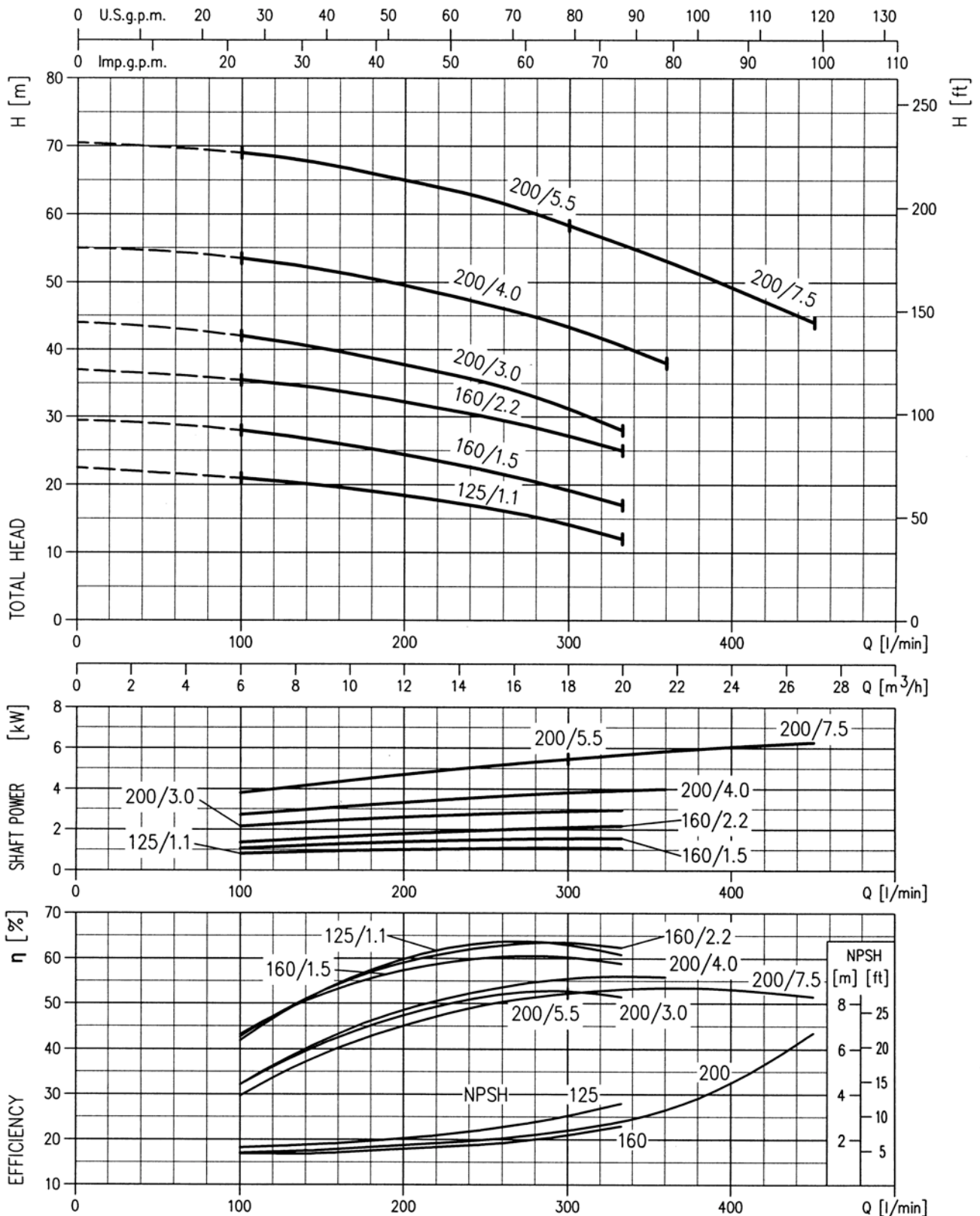


### PERFORMANCE TABLE

Pump Type	kW	HP	Q= Capacity															
			l/min	50	100	160	200	250	300	350	400	500	600	650	800	950	1000	1050
3M			m³/h	3	6	9.6	12	15	18	21	24	30	36	39	48	57	60	63
			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	-	-	-	-	-	-	-	-	-	-	-	-	-
32-125/0.37R	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
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

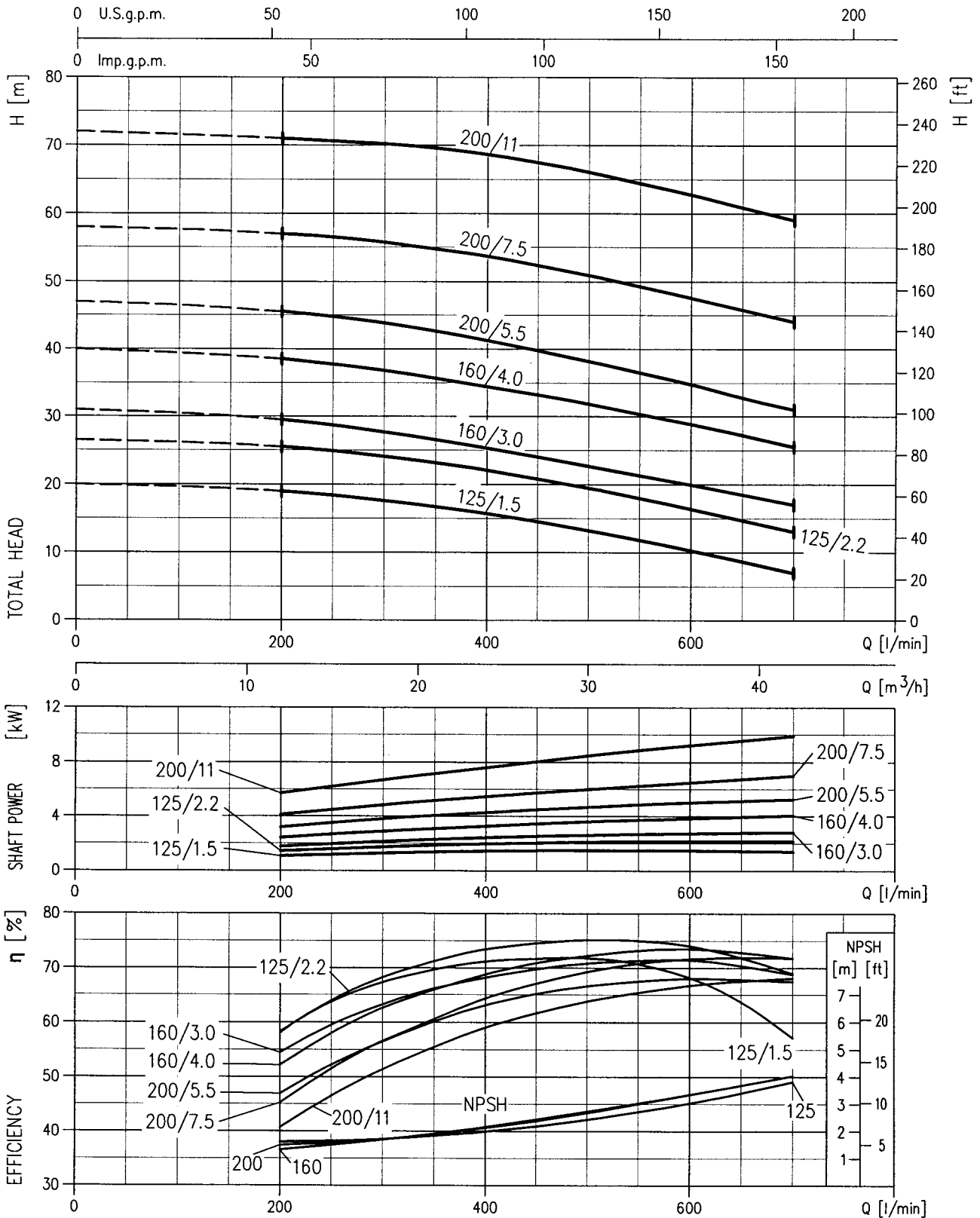
### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 at 2900 min<sup>-1</sup>

(according to ISO 9906 Annex A)



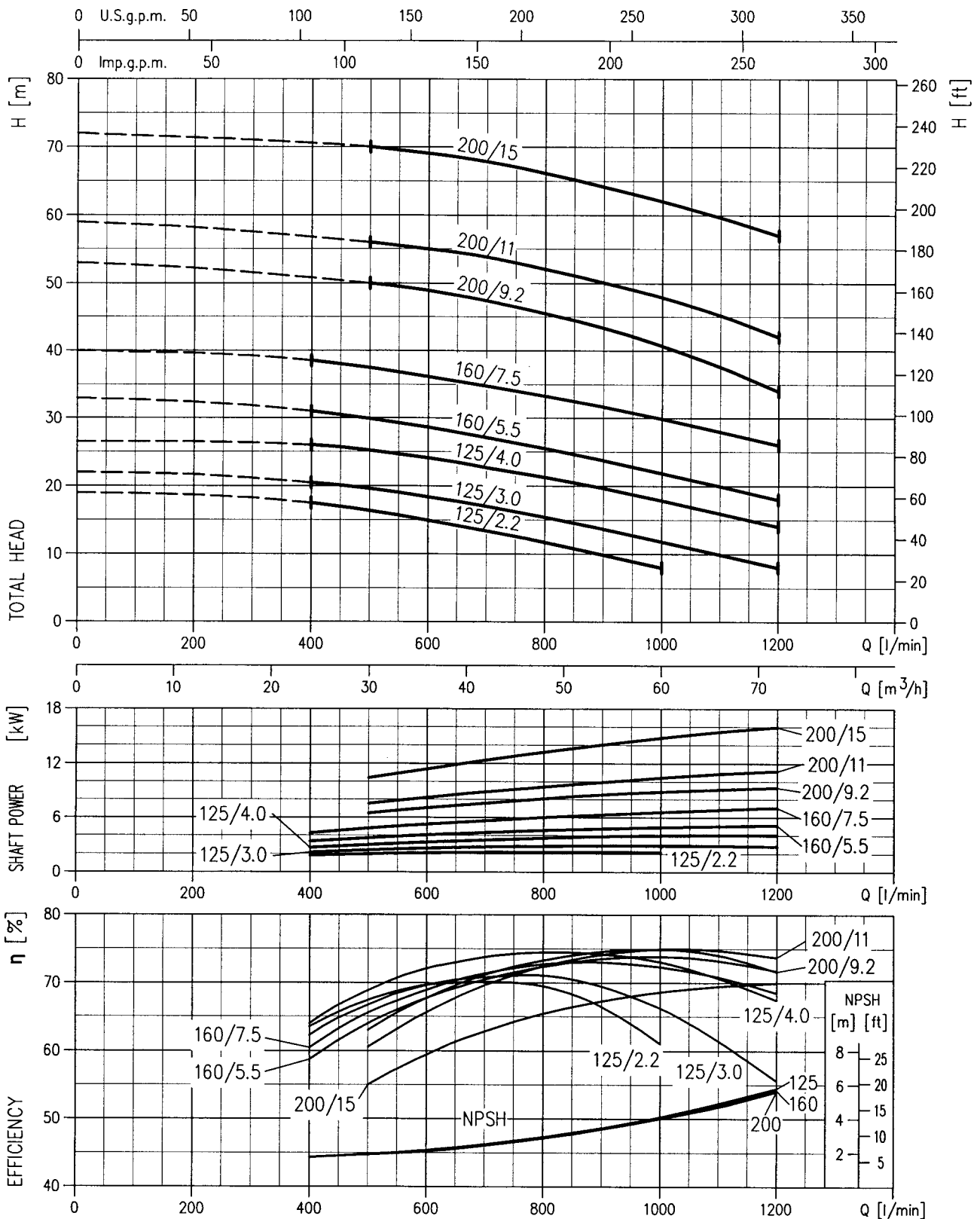
### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 at 2900 min<sup>-1</sup>

(according to ISO 9906 Annex A)



### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 at 2900 min<sup>-1</sup>

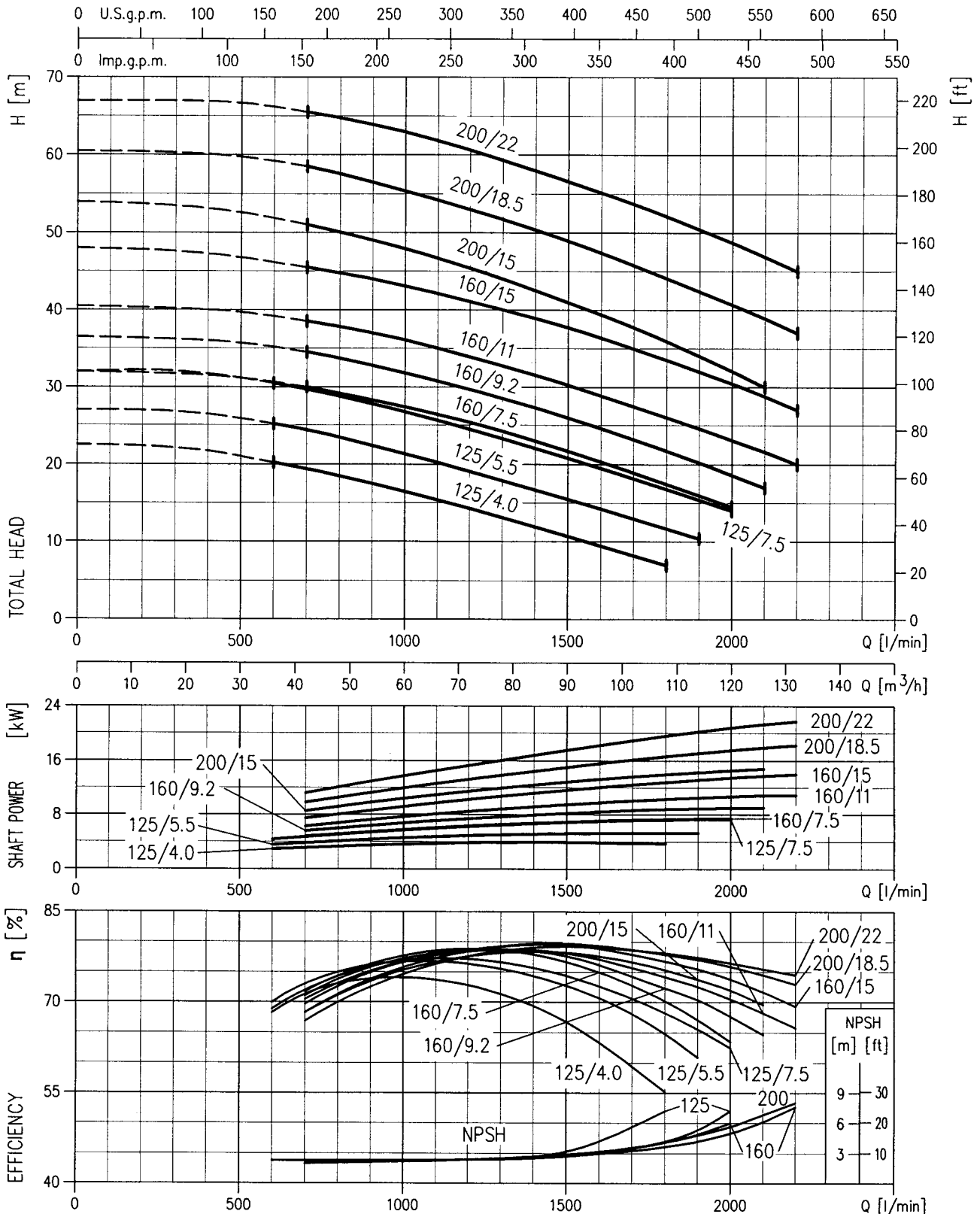
(according to ISO 9906 Annex A)





### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 2900 min<sup>-1</sup>

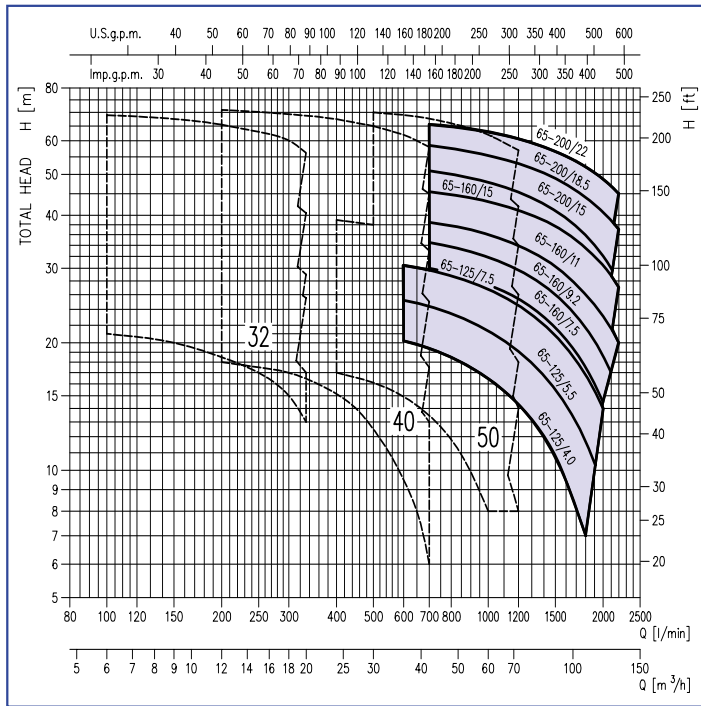
(according to ISO 9906 Annex A)



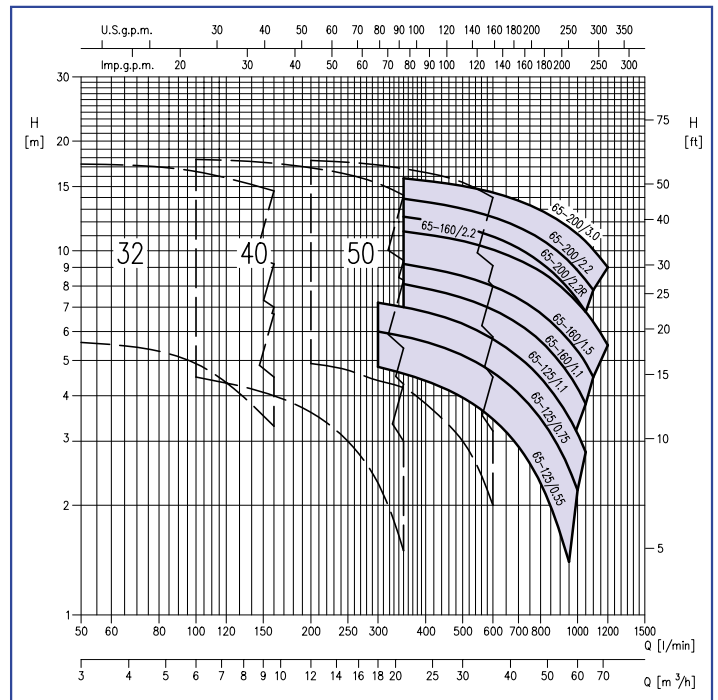
### 3M-3S-3P 65 PERFORMANCE CHART



### Range Enlargement



2 Poles - 50 Hz



4 Poles - 50 Hz



3M 65



3S 65



3P 65

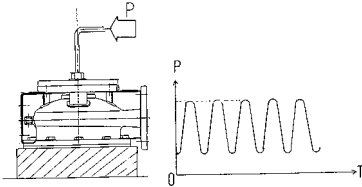
### APPLICATIONS

- Water supply for civil, agricultural and industrial systems
- Pressure boosting
- Fire-fighting systems
- Heating and air-conditioning systems
- Irrigation
- Cooling towers
- Swimming pools
- Washing systems
- Emptying

### 3M-3S-3P 65

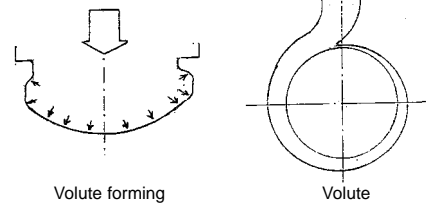


### EBARA Advanced Technology



Casing has been tested to a pressure of 14 bar for a test sequence in excess of 1 million cycles.

The hydro-forming process to obtain the integrated volute is patented. The volute offers higher efficiency than circular casing and the absence of a circular welding guarantees a good corrosion resistance.



Volute forming

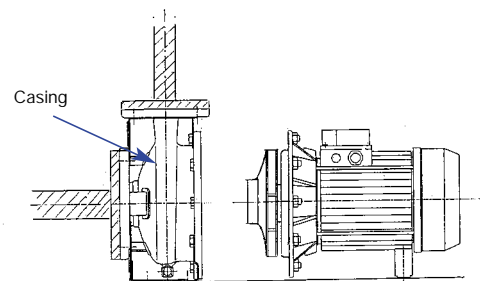
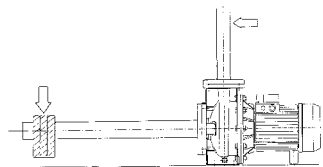
Volute

High efficiency impeller design - giving efficiencies up to 80%. Bronze or AISI 316 impeller.

Hydraulically balanced impeller - reducing axial thrust and prolonging bearing life.

Standard DIN mechanical seal - allowing for a range of seal materials to suit the pumped medium.

Robust structural design - reducing the possible effects of pipe strain and subsequent casing deformation.



"Back Pull Out" design - allowing for the removal of the motor/impeller assembly, whilst leaving the casing in situ.

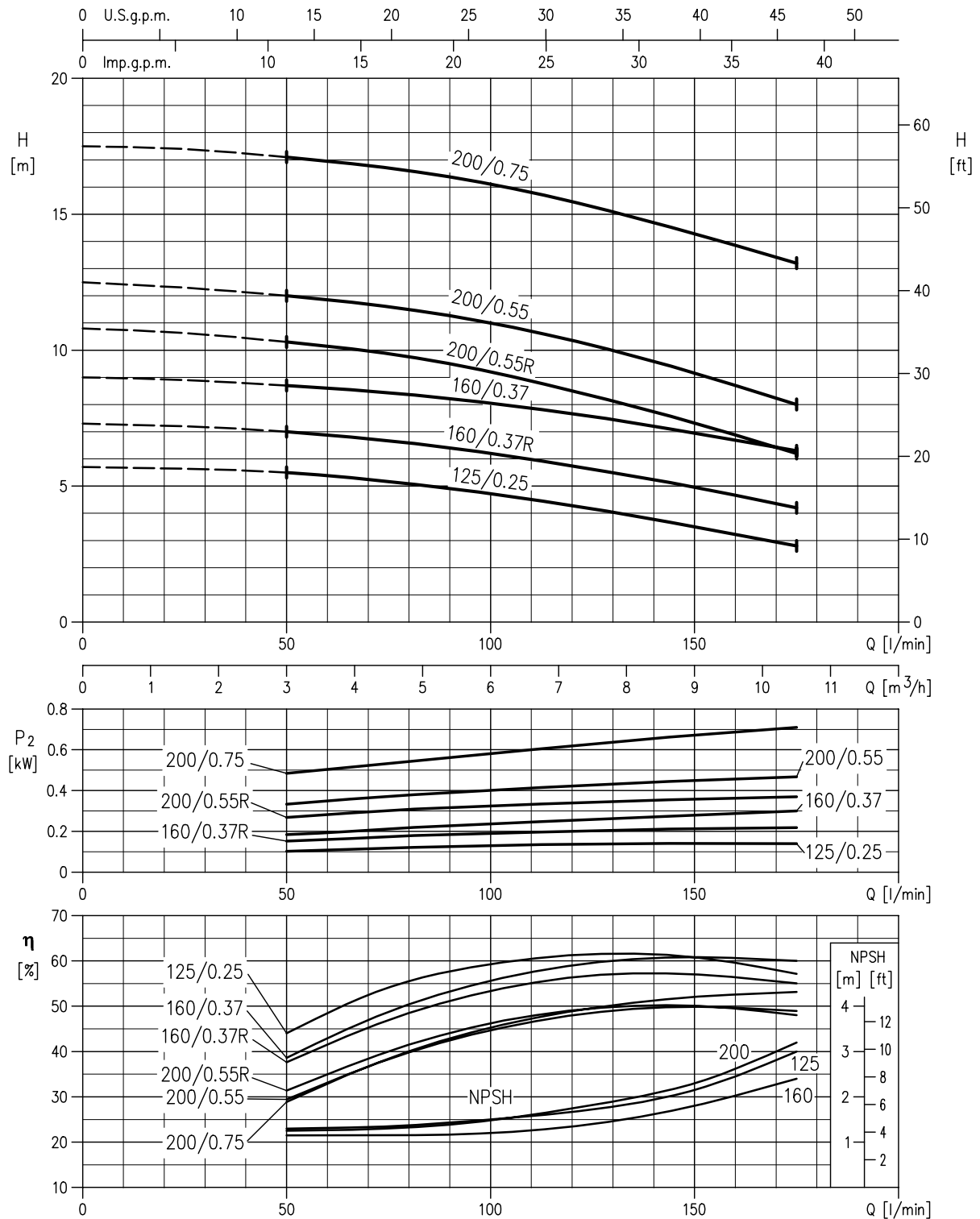
#### 3 SERIES PERFORMANCE DATA

Capacity up to 132 m<sup>3</sup>/h

Total head up to 72 m

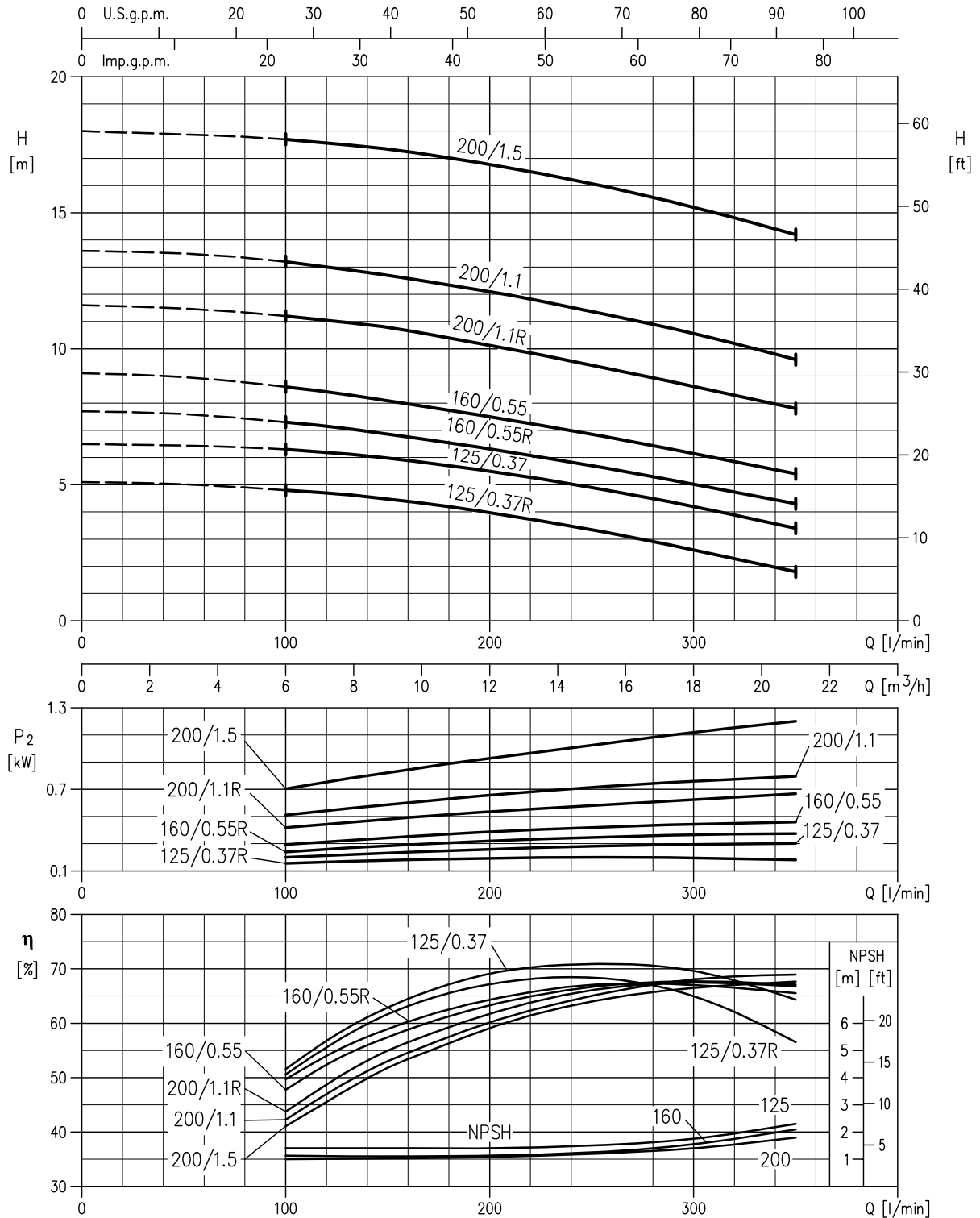
### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 at 1450 min<sup>-1</sup>

(according to ISO 9906 Annex A)



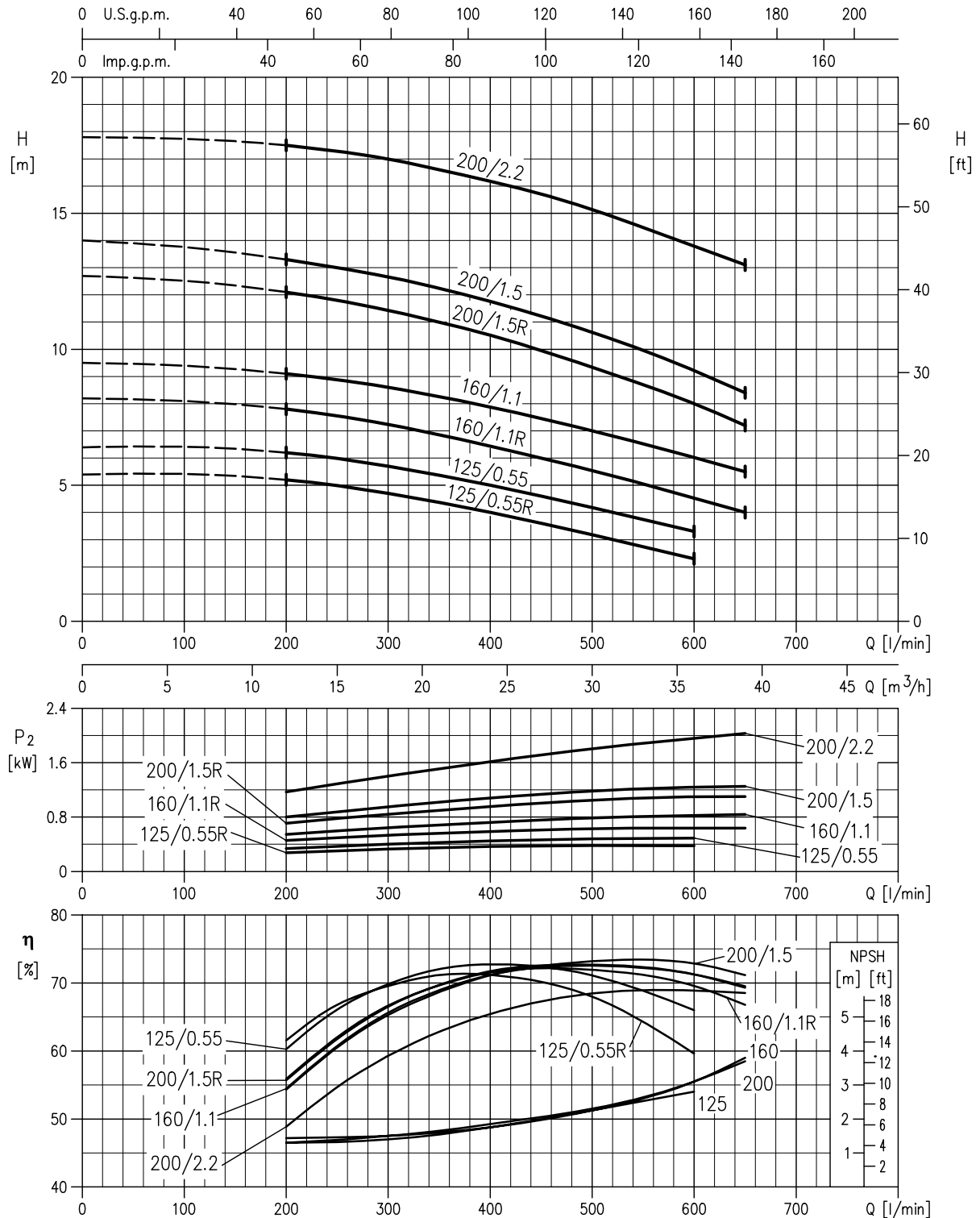
### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 at 1450 min<sup>-1</sup>

(according to ISO 9906 Annex A)



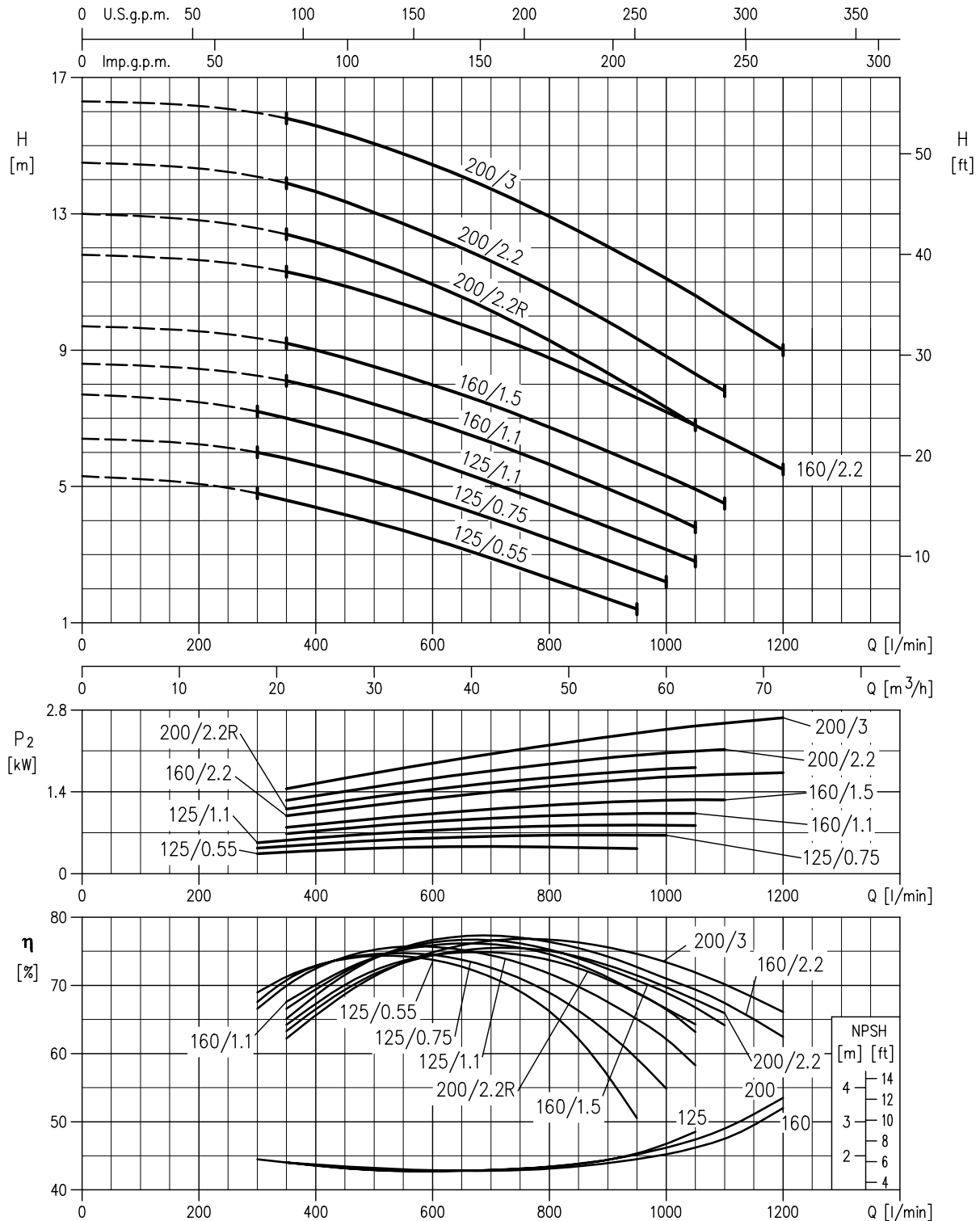
### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 at 1450 min<sup>-1</sup>

(according to ISO 9906 Annex A)

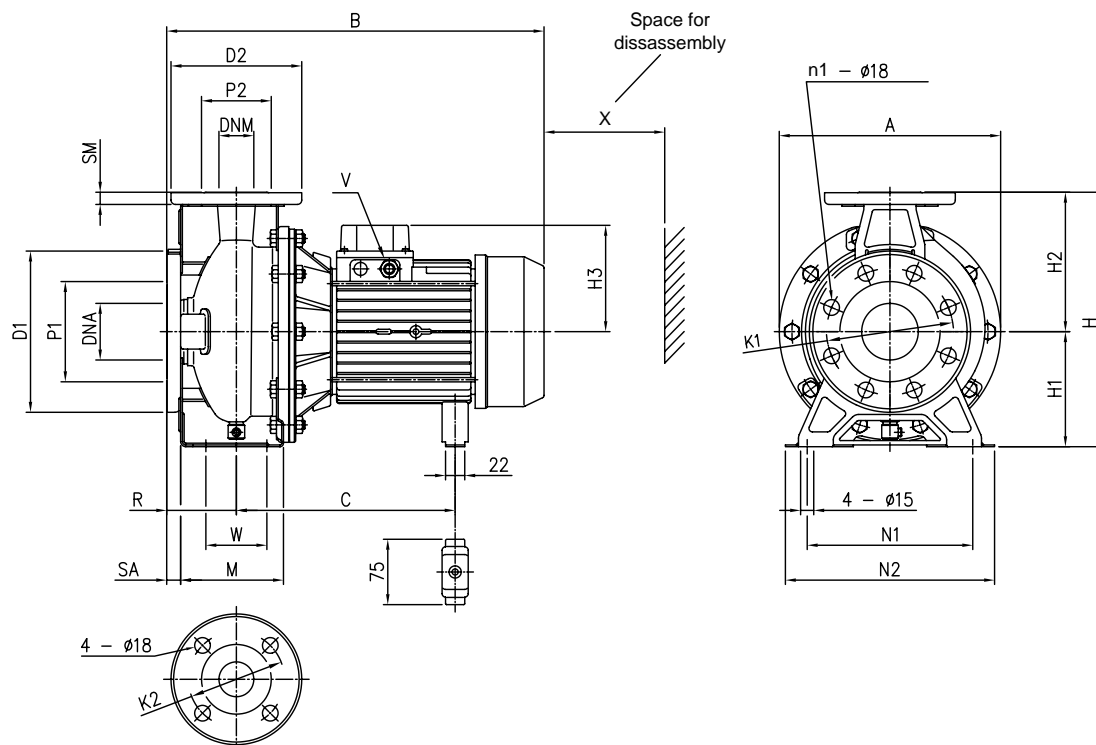


### PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 1450 min<sup>-1</sup>

(according to ISO 9906 Annex A)





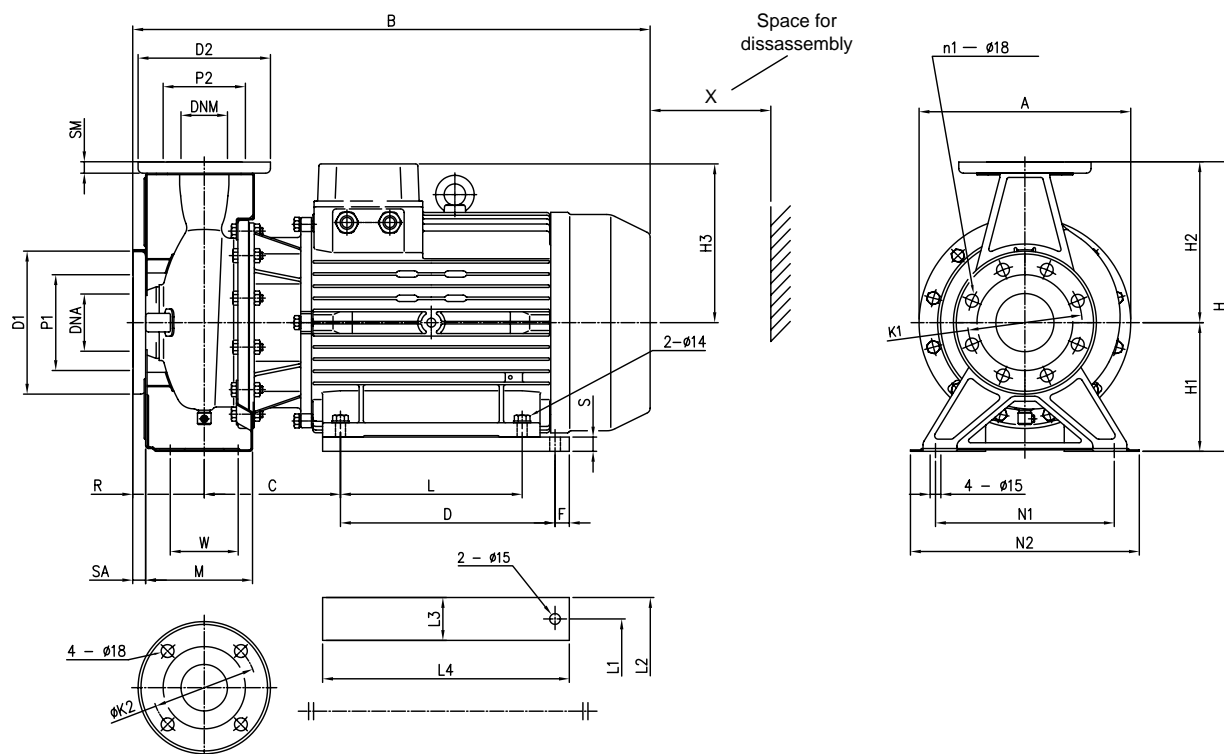


### DIMENSIONAL TABLE

Model 3(L)M	Dimensions (mm)																									Weight			
	Ø	Ø	Ø	n1		Ø	Ø		Ø	Ø	Ø	Ø		H3															
	DNA	DNM	P1	[1]	[2]	K1	D1	SA	P2	K2	D2	SM	H	H1	H2	[3]	[4]	R	W	N1	M	N2	A	B	C	V	X	kg	
32-125/1,1 (M)	50	32	96	4	-	125	165	16	76	100	140	14	252	112	140	122	139	80	70	140	114	190	213	408	231	PG13,5	110	21,5	
32-160/1,5 (M)	50	32	96	4	-	125	165	16	76	100	140	14	292	132	160	122	139	80	70	190	118	240	254	408	231	PG13,5	110	24,2	
32-160/2,2 (M)	50	32	96	4	-	125	165	16	76	100	140	14	292	132	160	122	139	80	70	190	118	240	254	408	231	PG13,5	110	27,3	
32-200/3,0	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	122	-	80	70	190	119	240	296	433	256	PG13,5	110	34,9	
32-200/4,0	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	134	-	80	70	190	119	240	296	458	256	PG 16	110	42,3	
32-200/5,5	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	153	-	80	70	190	119	240	296	477	276	PG 16	110	53,2	
32-200/7,5	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	153	-	80	70	190	119	240	296	520	276	PG 16	110	65	
40-125/1,5 (M)	65	40	116	4	-	145	185	16	81	110	150	14	252	112	140	122	139	80	70	160	114	210	213	408	231	PG13,5	115	22,3	
40-125/2,2 (M)	65	40	116	4	-	145	185	16	81	110	150	14	252	112	140	122	139	80	70	160	114	210	213	408	231	PG13,5	115	24,7	
40-160/3,0	65	40	116	4	-	145	185	16	81	110	150	14	292	132	160	122	-	80	70	190	118	240	254	433	255	PG13,5	115	30	
40-160/4,0	65	40	116	4	-	145	185	16	81	110	150	14	292	132	160	134	-	80	70	190	118	240	254	458	255	PG 16	115	37,6	
40-200/5,5	65	40	116	4	-	145	185	16	81	110	150	14	340	160	180	153	-	100	70	212	139	265	296	497	278	PG 16	115	54,5	
40-200/7,5	65	40	116	4	-	145	185	16	81	110	150	14	340	160	180	153	-	100	70	212	139	265	296	520	224	PG 16	115	61,6	
40-200/11	65	40	116	4	-	145	185	16	81	110	150	14	340	160	180	181	-	100	70	212	139	265	296	577	224	PG 21	115	73,8	
50-125/2,2 (M)	65	50	116	4	-	145	185	16	96	125	165	16	292	132	160	122	139	100	70	190	138	240	254	428	231	PG13,5	125	30	
50-125/3,0	65	50	116	4	-	145	185	16	96	125	165	16	292	132	160	122	-	100	70	190	138	240	254	453	255	PG13,5	125	31,5	
50-125/4,0	65	50	116	4	-	145	185	16	96	125	165	16	292	132	160	134	-	100	70	190	138	240	254	478	255	PG 16	125	37,6	
50-160/5,5	65	50	116	4	-	145	185	16	96	125	165	16	340	160	180	153	-	100	70	212	139	265	296	497	278	PG 16	125	54	
50-160/7,5	65	50	116	4	-	145	185	16	96	125	165	16	340	160	180	153	-	100	70	212	139	265	296	520	224	PG 16	125	61,1	
50-200/9,2	65	50	116	4	-	145	185	16	96	125	165	16	360	160	200	181	-	100	70	212	139	265	296	582	239	PG 21	125	67,5	
50-200/11	65	50	116	4	-	145	185	16	96	125	165	16	360	160	200	181	-	100	70	212	139	265	296	582	239	PG 21	125	73,5	
65-125/4	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	139	-	100	95	212	149,5	280	254	483	253	PG 16	145	40	
65-125/5,5	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	150	-	100	95	212	149,5	280	254	496	275	PG 16	145	52	
65-125/7,5	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	150	-	100	95	212	149,5	280	254	540	275	PG 16	145	58,5	
65-160/7,5	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	150	-	100	95	212	149,5	280	296	540	275	PG 16	145	62	
65-160/9,2	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	177,5	-	100	95	212	149,5	280	296	593	356	PG 21	145	67	
65-160/11	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	177,5	-	100	95	212	149,5	280	296	593	356	PG 21	145	75,6	

[1] Standard  
[2] On request

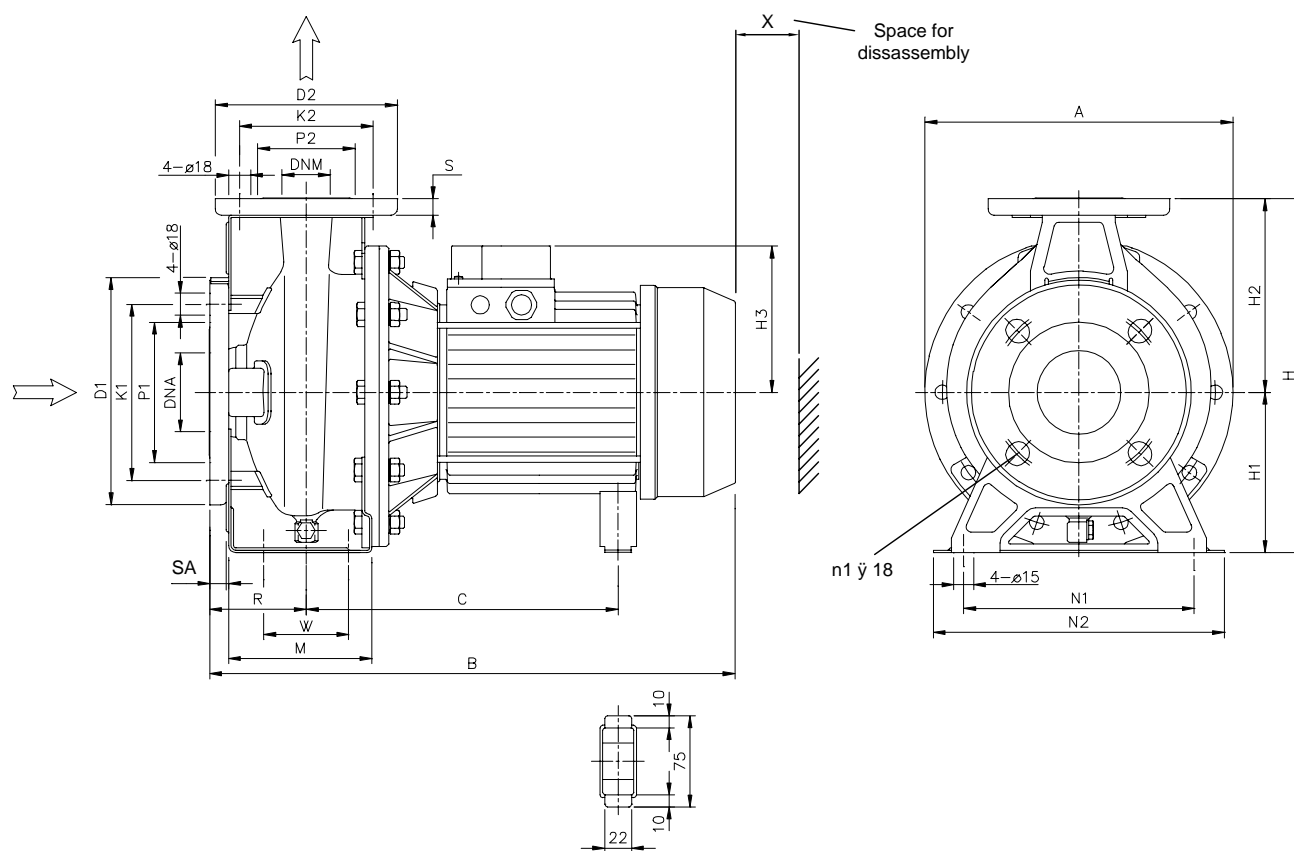
### 3M (3LM) 15 ÷ 22 kW



### DIMENSIONAL TABLE

Model 3(L)M	Dimensions (mm)																												Weight					
	Ø DNA	Ø DNM	Ø P1	n1		Ø K1	Ø D1	Ø SA	Ø P2	Ø K2	Ø D2	Ø SM	H	H1	H2	H3	R	W	N1	M	N2	A	B	L	L1	L2	L3	L4	C	D	F	S	X	kg
50-200/15	65	50	116	4	-	145	185	16	96	125	165	16	360	160	200	222	100	70	212	139	265	296	723,5	254	254	318	65	304	190,5	-	-	-	125	96
65-160/15	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	222	100	95	212	149,5	280	296	733	254	254	318	65	304	199,5	-	-	-	145	93
65-200/15	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	222	100	95	250	149,5	320	296	733	-	258	318	60	345	199,5	300	20	20	145	114
65-200/18,5	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	222	100	95	250	149,5	320	296	733	-	258	318	60	345	199,5	300	20	20	145	127
65-200/22	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	222	100	95	250	149,5	320	286	733	-	258	318	60	345	199,5	300	20	20	145	136

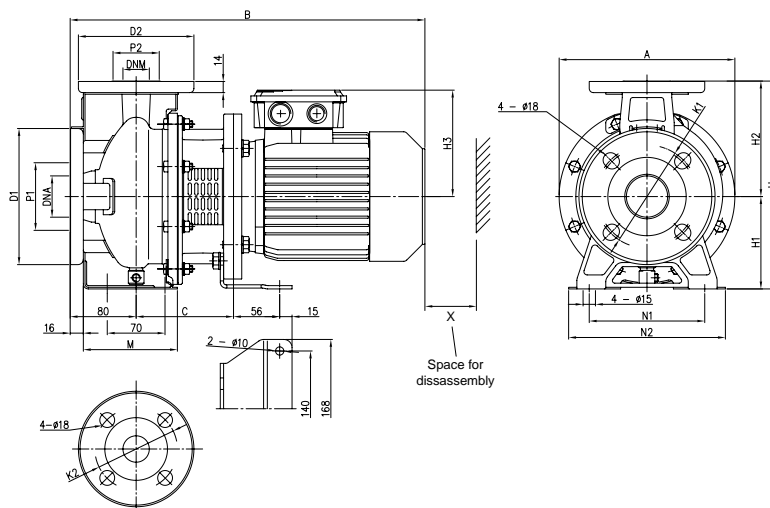
[1] Standard  
[2] On request



### DIMENSIONAL TABLE

Model 3(L)M4	Dimensions (mm)																									Weight kg
	ØDNA	ØDNM	n1		ØK1	ØP1	ØD2	ØK2	ØP2	A	B	C	H	H1	H2	H3	M	N1	N2	R	S	ØD1	SA	W	X	
			[1]	[2]																						
32-125/0.25	50	32	4	-	125	96	140	100	76	213	375	205	252	112	140	104	114	140	190	80	14	165	16	70	110	15.0
32-160/0.37R	50	32	4	-	125	96	140	100	76	254	395	222	292	132	160	117	118	190	240	80	14	165	16	70	110	20.0
32-160/0.37	50	32	4	-	125	96	140	100	76	254	395	222	292	132	160	117	118	190	240	80	14	165	16	70	110	20.0
32-200/0.55R	50	32	4	-	125	96	140	100	76	294	395	223	340	160	180	117	119	190	240	80	14	165	16	70	110	25.0
32-200/0.55	50	32	4	-	125	96	140	100	76	294	395	223	340	160	180	117	119	190	240	80	14	165	16	70	110	25.0
32-200/0.75	50	32	4	-	125	96	140	100	76	294	408	232	340	160	180	122	119	190	240	80	14	165	16	70	110	29.3
40-125/0.37R	65	40	4	-	145	116	150	110	81	213	375	205	252	112	140	104	114	160	210	80	14	185	16	70	115	15.0
40-125/0.37	65	40	4	-	145	116	150	110	81	213	375	205	252	112	140	104	114	160	210	80	14	185	16	70	115	15.0
40-160/0.55R	65	40	4	-	145	116	150	110	81	254	395	222	292	132	160	117	118	190	240	80	14	185	16	70	115	20.0
40-160/0.55	65	40	4	-	145	116	150	110	81	254	395	222	292	132	160	117	118	190	240	80	14	185	16	70	115	20.0
40-200/1.1R	65	40	4	-	145	116	150	110	81	294	428	232	340	160	180	122	115	212	265	100	14	185	16	70	115	30.0
40-200/1.1	65	40	4	-	145	116	150	110	81	294	428	232	340	160	180	122	115	212	265	100	14	185	16	70	115	30.0
40-200/1.5	65	40	4	-	145	116	150	110	81	294	428	232	340	160	180	122	115	212	265	100	14	185	16	70	115	32.2
50-125/0.55R	65	50	4	-	145	116	165	125	96	254	415	222	292	132	160	117	114	190	240	100	16	185	16	70	125	20.0
50-125/0.55	65	50	4	-	145	116	165	125	96	254	415	222	292	132	160	117	114	190	240	100	16	185	16	70	125	20.0
50-160/1.1R	65	50	4	-	145	116	165	125	96	296	428	232	340	160	180	122	115	212	265	100	16	185	16	70	125	30.0
50-160/1.1	65	50	4	-	145	116	165	125	96	296	428	232	340	160	180	122	115	212	265	100	16	185	16	70	125	30.0
50-200/1.5R	65	50	4	-	145	116	165	125	96	296	428	232	360	160	200	122	115	212	265	100	16	185	16	70	125	30.0
50-200/1.5	65	50	4	-	145	116	165	125	96	296	428	232	360	160	200	122	115	212	265	100	16	185	16	70	125	30.0
50-200/2.2	65	50	4	-	145	116	165	125	96	296	478	256	360	160	200	134	115	212	265	100	16	185	16	70	125	31.8
65-125/0.55	80	65	8	4	160	134	185	145	115	254	415	219	340	160	180	117	149.5	212	280	100	16	200	18	95	145	22.9
65-125/0.75	80	65	8	4	160	134	185	145	115	254	427	230	340	160	180	123.5	149.5	212	280	100	16	200	18	95	145	27.8
65-125/1.1	80	65	8	4	160	134	185	145	115	254	427	230	340	160	180	123.5	149.5	212	280	100	16	200	18	95	145	28.1
65-160/1.1	80	65	8	4	160	134	185	145	115	296	427	230	360	160	200	123.5	149.5	212	280	100	16	200	18	95	145	30.8
65-160/1.5	80	65	8	4	160	134	185	145	115	296	483	253	360	160	200	123.5	149.5	212	280	100	16	200	18	95	145	32.6
65-160/2.2	80	65	8	4	160	134	185	145	115	296	483	253	360	160	200	139	149.5	212	280	100	16	200	18	95	145	37.8
65-200/2.2R	80	65	8	4	160	134	185	145	115	296	483	253	405	180	225	139	149.5	250	320	100	16	200	18	95	145	38.5
65-200/2.2	80	65	8	4	160	134	185	145	115	296	483	253	405	180	225	139	149.5	250	320	100	16	200	18	95	145	38.7
65-200/3.0	80	65	8	4	160	134	185	145	115	296	483	253	405	180	225	139	149.5	250	320	100	16	200	18	95	145	43.3

[1] Standard  
[2] On request



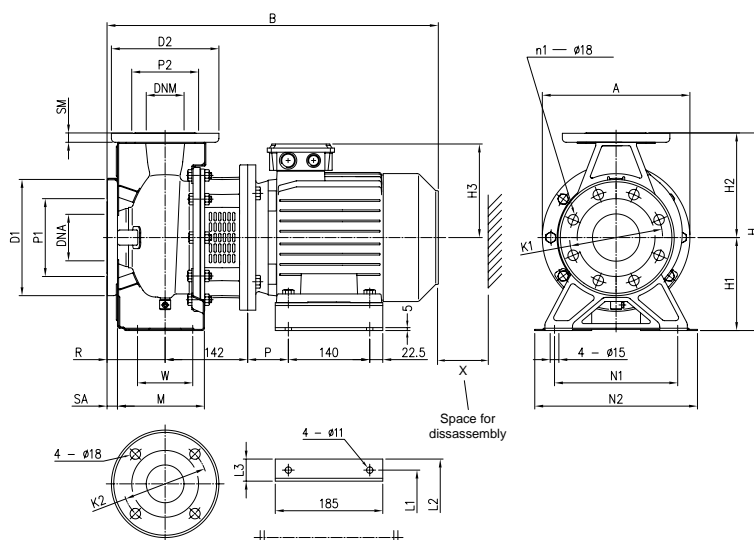
[1] Only for three-phase  
[2] Only for mono-phase

## DIMENSIONAL TABLE

Model (L/S)	Dimensions (mm)																				Weight
	Ø DNA	Ø DNM	Ø P1	Ø K1	Ø D1	Ø P2	Ø K2	Ø D2	H	H1	H2	H3		N1	M	N2	A	B	C	X	
												[1]	[2]								kg
32-125/1,1M	50	32	96	125	165	76	100	140	252	112	140	129	150	140	114	190	213	430	118	110	23,1
32-160/1,5M	50	32	96	125	165	76	100	140	292	132	160	138	160	190	118	240	254	477	130	110	28,5
32-160/2,2M	50	32	96	125	165	76	100	140	292	132	160	138	160	190	118	240	254	477	130	110	32,4
40-125/1,5M	65	40	116	145	185	81	110	150	252	112	140	138	160	160	114	210	213	477	130	115	26,5
40-125/2,2M	65	40	116	145	185	81	110	150	252	112	140	138	160	160	114	210	213	477	130	115	29,6
50-125/2,2M	65	50	116	145	185	95	125	165	292	132	160	138	160	190	138	240	254	497	130	125	32,9

**3S (3LS) 3 ÷ 4 kW**

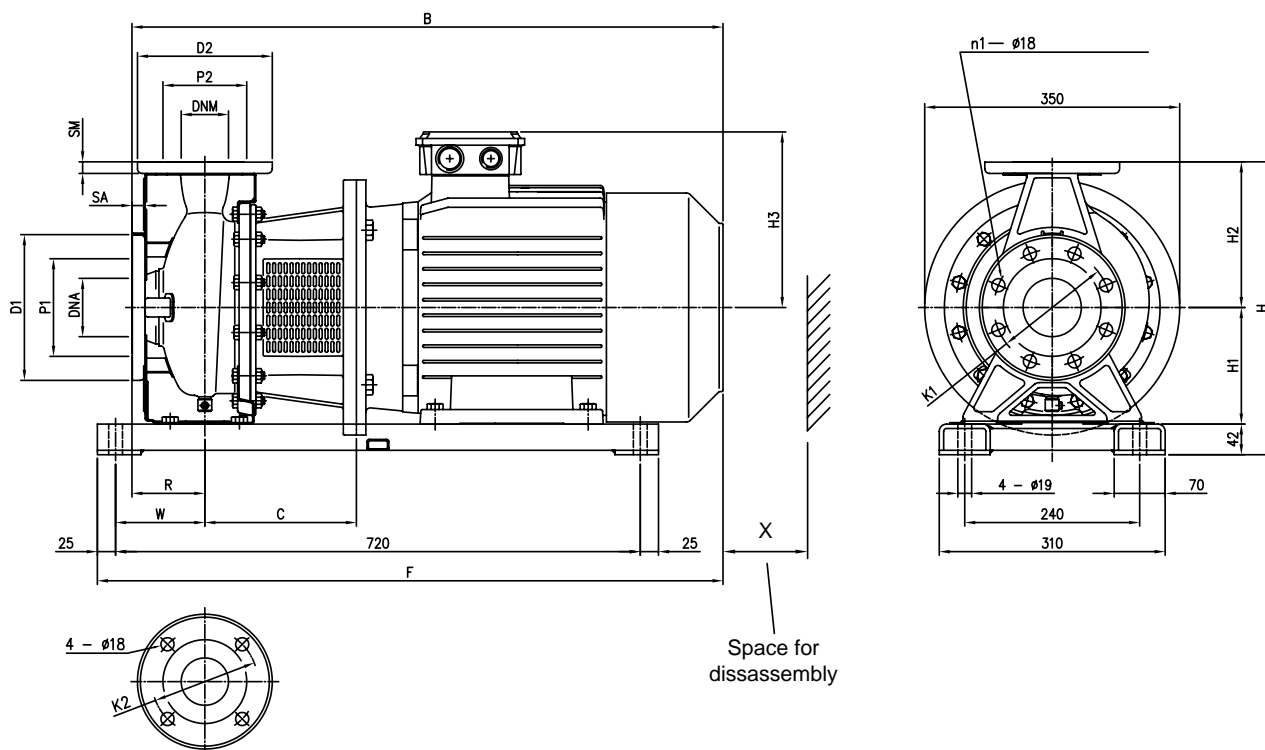
## 2 POLES



[1] Standard  
[2] On request

## DIMENSIONAL TABLE

Model 3(L)S	Dimensions (mm)																							Weight kg					
	Ø DNA	Ø DNM	Ø P1	n1		Ø K1	Ø D1	Ø SA	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	R	W	N1	M	N2	A	B		L1	L2	L3	P	X
	[1]	[2]	K1	D1	SA	P2	K2	D2	SM	H	H1	H2	H3	R	W	N1	M	N2	A	B	L1	L2	L3		P	X			
32-200/3,0	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	145	80	70	190	119	240	294	528	160	202	42	63	110	43,4
32-200/4,0	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	161	80	70	190	119	240	294	550	190	228	38	70	110	45,9
65-125/4,0	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	161	100	95	212	149,5	280	254	615	190	228	38	70	145	47

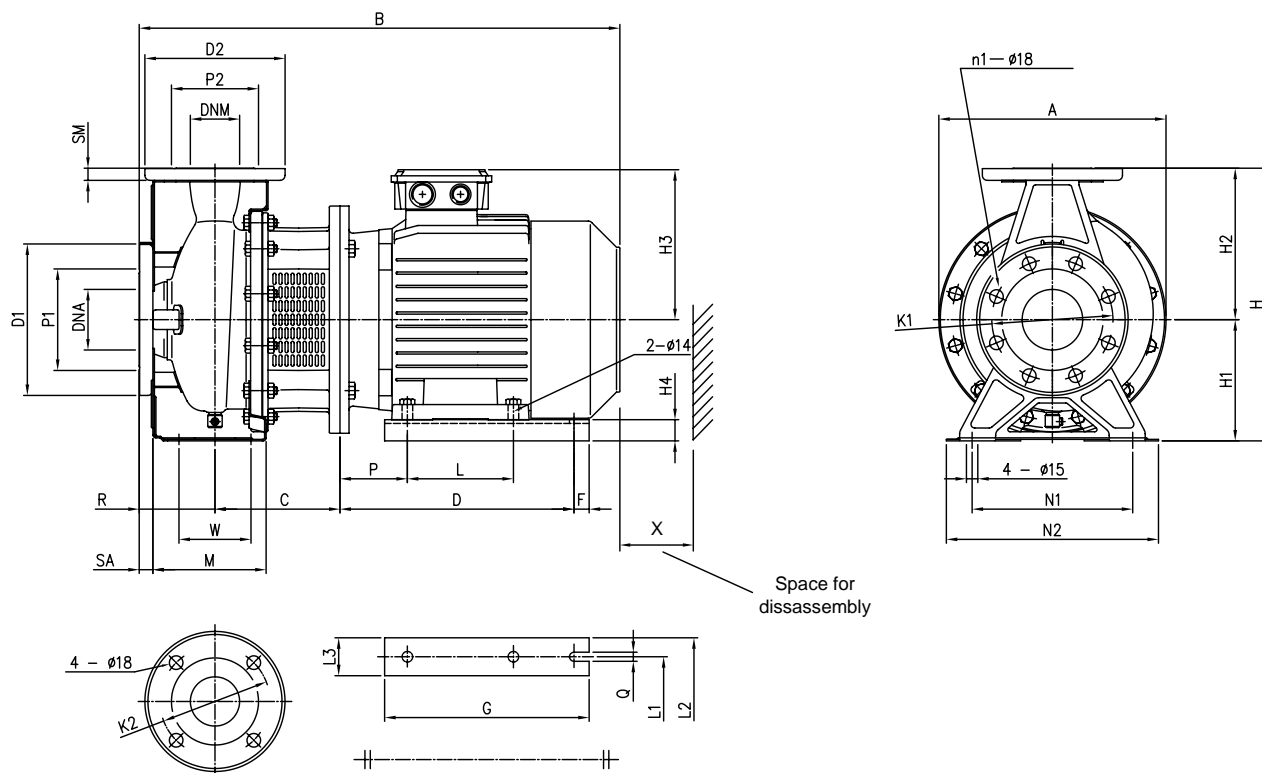


### DIMENSIONAL TABLE

Model 3(L)S	Dimensions (mm)																						Weight
	Ø DNA	Ø DNM	Ø P1	n1		Ø K1	Ø D1	Ø SA	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3	R	W	B	C	F	X	kg
	[1]	[2]																					
40-200/11	65	40	115	4	-	145	185	16	80	110	150	14	382	160	180	250	100	110	801	198	836	115	107
50-200/11	65	50	115	4	-	145	185	16	95	125	165	16	402	160	200	250	100	110	801	198	836	125	107
50-200/15	65	50	115	4	-	145	185	16	95	125	165	16	402	160	200	250	100	110	801	198	836	125	131
65-160/11	80	65	134	8	4	160	200	18	115	145	185	16	402	160	200	246	100	122.5	801	198	849	145	76
65-160/15	80	65	134	8	4	160	200	18	115	145	185	16	402	160	200	246	100	122.5	811	208	859	145	104

[1] Standard  
[2] On request

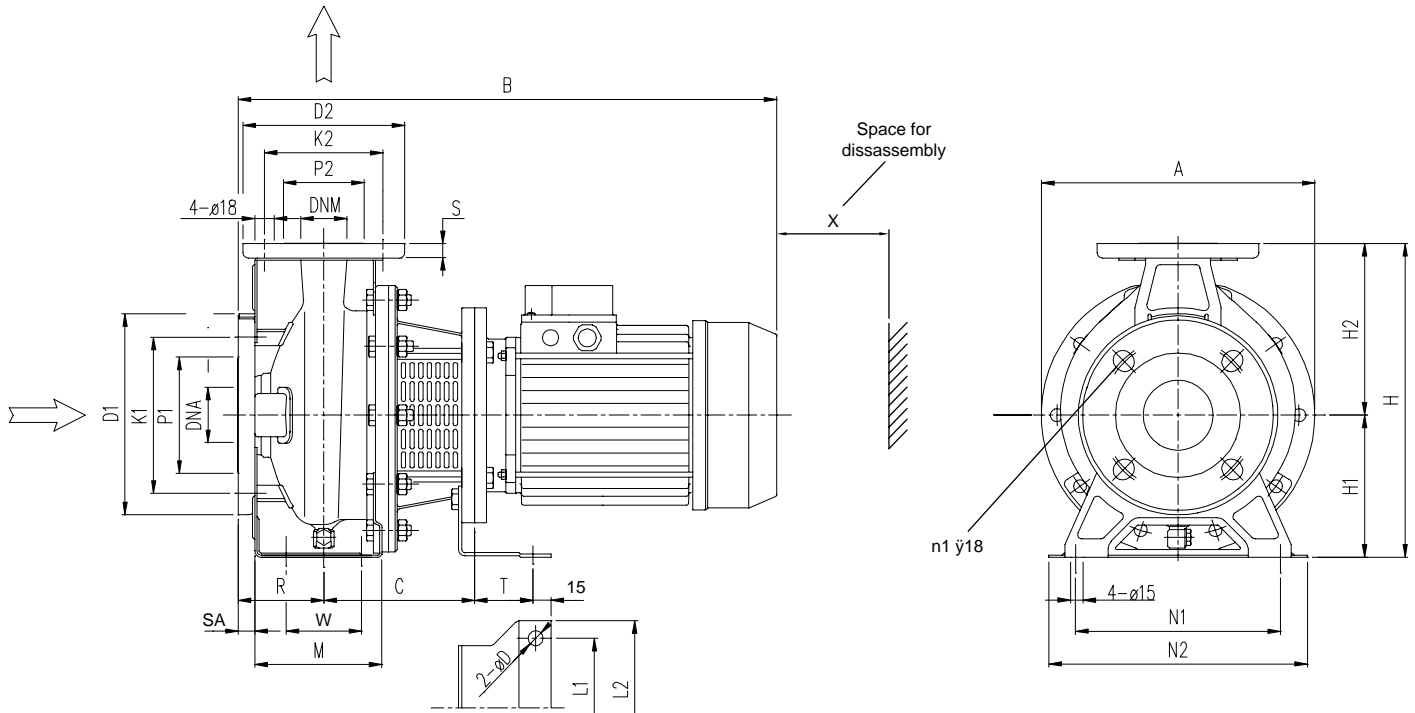
### 3S (3LS)



### DIMENSIONAL TABLE

Model 3(L)S	Dimensions (mm)																														Weight					
	Ø	Ø	Ø	n1		Ø	Ø	Ø	Ø	Ø																										
	DNA	DNM	P1	[1]	[2]	K1	D1	SA	P2	K2	D2	SM	H	H1	H2	H3	H4	R	W	N1	M	N2	A	B	C	D	F	L	L1	L2	L3	G	Q	P	X	kg
32-200/5,5	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	205	28	80	70	190	119	240	300	615	165	314	15	-	216	266	50	270	12	-	110	62,8
32-200/7,5	50	32	96	4	-	125	165	16	76	100	140	14	340	160	180	205	28	80	70	190	119	240	300	615	165	314	15	-	216	266	50	270	12	-	110	74,6
40-160/3,0	65	40	116	4	-	145	185	16	81	110	150	14	292	132	160	145	32	80	70	190	118	240	254	528	142	246	15	-	160	200	40	220	12	-	115	39
40-160/4,0	65	40	116	4	-	145	185	16	81	110	150	14	292	132	160	161	20	80	70	190	118	240	254	550	142	253	15	-	190	240	50	220	12	-	115	41,5
40-200/5,5	65	40	116	4	-	145	185	16	81	110	150	14	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	115	63,2
40-200/7,5	65	40	116	4	-	145	185	16	81	110	150	14	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	115	69,6
50-125/3,0	65	50	116	4	-	145	185	16	96	125	165	16	292	132	160	145	32	100	70	190	138	240	254	548	142	246	15	-	160	200	40	220	12	-	125	42
50-125/4,0	65	50	116	4	-	145	185	16	96	125	165	16	292	132	160	161	20	100	70	190	138	240	254	570	142	253	15	-	190	240	50	220	12	-	125	42,5
50-160/5,5	65	50	116	4	-	145	185	16	96	125	165	16	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	125	63,8
50-160/7,5	65	50	116	4	-	145	185	16	96	125	165	16	340	160	180	205	28	100	70	212	139	265	300	635	165	314	15	-	216	266	50	270	12	-	125	69,6
50-200/9,2	65	50	116	4	-	145	185	16	96	125	165	16	360	160	200	205	28	100	70	212	139	265	300	673	165	314	15	-	216	266	50	270	12	-	125	79,7
65-125/5,5	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	145	60
65-125/7,5	80	65	134	8	4	160	200	18	115	145	185	16	340	160	180	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	145	67
65-160/7,5	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	198	28	100	95	212	149,5	280	300	635	165	314	15	-	216	266	50	270	12	-	145	70
65-160/9,2	80	65	134	8	4	160	200	18	115	145	185	16	360	160	200	198	28	100	95	212	149,5	280	300	673	165	314	15	-	216	266	50	270	12	-	145	77
65-200/15	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	246	20	100	95	250	149,5	320	350	811	208	413	20	-	254	314	60	350	14	-	145	128
65-200/18,5	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	246	20	100	95	250	149,5	320	350	855	208	413	20	-	254	314	60	350	14	-	145	141
65-200/22	80	65	134	8	4	160	200	18	115	145	185	16	405	180	225	266	-	100	95	250	149,5	320	350	910	208	-	-	241	279	330	83	-	-	121	145	160

[1] Standard  
[2] On request



### DIMENSIONAL TABLE

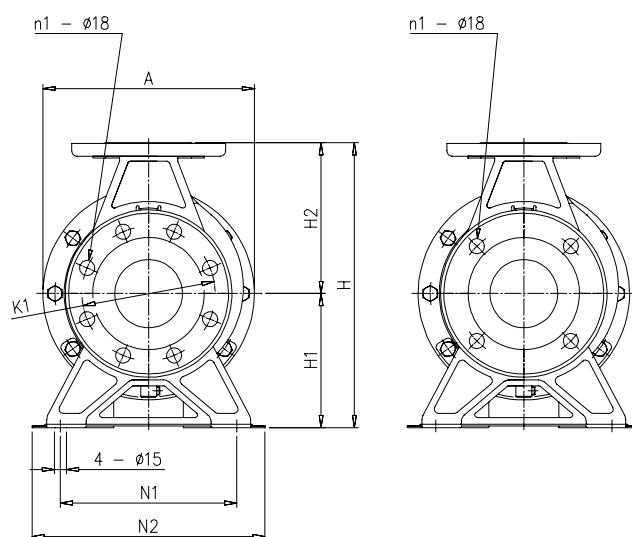
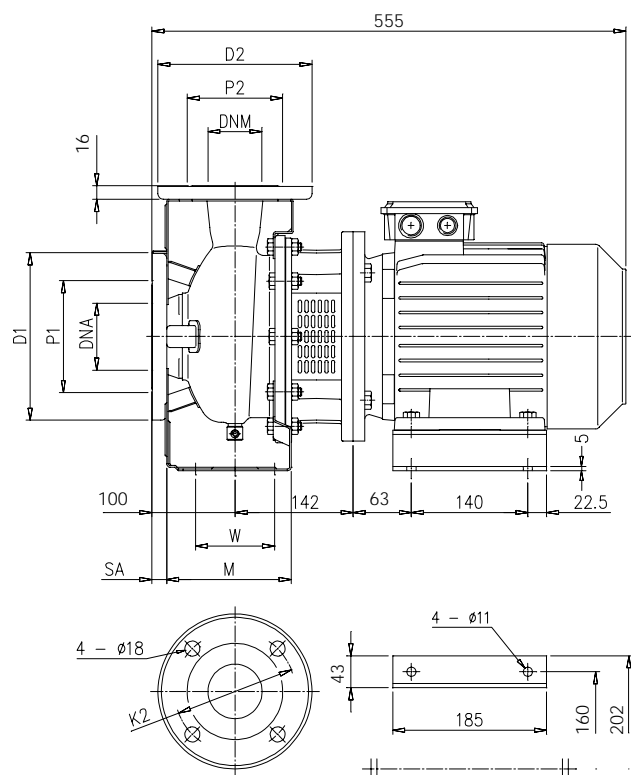
Model 3(L)S4	Dimensions (mm)																												Weight
	ØDNA	ØDNM	n1	ØD1	SA	ØK1	ØP1	NI	ØD2	ØK2	ØP2	A	B	C	D	H	H1	H2	L1	L2	M	N1	N2	R	W	S	T	X	kg
			[1] [2]																										
32-125/0.25	50	32	4 -	165	16	125	96	4	140	100	76	213	401	108	8	252	112	140	112	140	114	140	190	80	70	14	45	110	15.5
32-160/0.37R	50	32	4 -	165	16	125	96	4	140	100	76	254	401	108	8	292	132	160	112	140	118	190	240	80	70	14	45	110	20.7
32-160/0.37	50	32	4 -	165	16	125	96	4	140	100	76	254	401	108	8	292	132	160	112	140	118	190	240	80	70	14	45	110	20.7
32-200/0.55R	50	32	4 -	165	16	125	96	4	140	100	76	296	435	118	10	340	160	180	140	168	119	190	240	80	70	14	56	110	28.9
32-200/0.55	50	32	4 -	165	16	125	96	4	140	100	76	296	435	118	10	340	160	180	140	168	119	190	240	80	70	14	56	110	28.9
32-200/0.75	50	32	4 -	165	16	125	96	4	140	100	76	296	435	118	10	252	160	180	140	168	119	190	240	80	70	14	56	110	30.1
40-125/0.37R	65	40	4 -	185	16	145	116	4	150	110	81	213	401	118	8	252	112	180	112	140	114	160	210	80	70	14	45	115	17.6
40-125/0.37	65	40	4 -	185	16	145	116	4	150	110	81	213	401	118	8	292	112	140	112	140	114	160	210	80	70	14	45	115	17.6
40-160/0.55R	65	40	4 -	185	16	145	116	4	150	110	81	254	435	118	10	292	132	140	140	168	118	190	210	80	70	14	56	115	23.2
40-160/0.55	65	40	4 -	185	16	145	116	4	150	110	81	254	435	118	10	340	132	160	140	168	118	190	210	80	70	14	56	115	23.2
40-200/1.1R	65	40	4 -	185	16	145	116	4	150	110	81	294	487	130	10	340	160	160	140	168	115	212	265	100	70	14	56	115	33.3
40-200/1.1	65	40	4 -	185	16	145	116	4	150	110	81	294	487	130	10	340	160	180	140	168	115	212	265	100	70	14	56	115	33.3
40-200/1.5	65	40	4 -	185	16	145	116	4	150	110	81	294	512	130	10	292	160	180	140	168	115	212	265	100	70	14	56	115	35.5
50-125/0.55R	65	50	4 -	185	16	145	116	4	150	125	96	254	452	118	10	292	132	160	140	168	114	190	240	100	70	16	56	125	23.5
50-125/0.55	65	50	4 -	185	16	145	116	4	150	125	96	254	452	118	10	340	132	160	140	168	114	190	240	100	70	16	56	125	23.5
50-160/1.1R	65	50	4 -	185	16	145	116	4	150	125	96	296	487	130	10	340	160	180	140	168	115	212	265	100	70	16	56	125	34.0
50-160/1.1	65	50	4 -	185	16	145	116	4	150	125	96	296	487	130	10	360	160	180	140	168	115	212	265	100	70	16	56	125	34.0
50-200/1.5R	65	50	4 -	185	16	145	116	4	150	125	96	296	512	130	10	360	160	200	140	168	115	212	265	100	70	16	56	125	30.0
50-200/1.5	65	50	4 -	185	16	145	116	4	150	125	96	296	512	130	10	360	160	200	140	168	115	212	265	100	70	16	56	125	30.0
65-125/0.55	80	65	8 4	200	18	160	134	8	185	145	115	254	450	118	10	340	160	180	140	168	149.5	212	280	100	95	16	56	145	24.8
65-125/0.75	80	65	8 4	200	18	160	134	8	185	145	115	254	450	118	10	340	160	180	140	168	149.5	212	280	100	95	16	56	145	26
65-125/1.1	80	65	8 4	200	18	160	134	8	185	145	115	254	497	130	10	340	160	180	140	168	149.5	212	280	100	95	16	56	145	30
65-160/1.1	80	65	8 4	200	18	160	134	8	185	145	115	296	497	130	10	360	160	200	140	168	149.5	212	280	100	95	16	56	145	34.1
65-160/1.5	80	65	8 4	200	18	160	134	8	185	145	115	296	497	130	10	360	160	200	140	168	149.5	212	280	100	95	16	56	145	35.2

[1] Standard  
[2] On request



### 3S4 (3LS4) 2,2 ÷ 3 kW

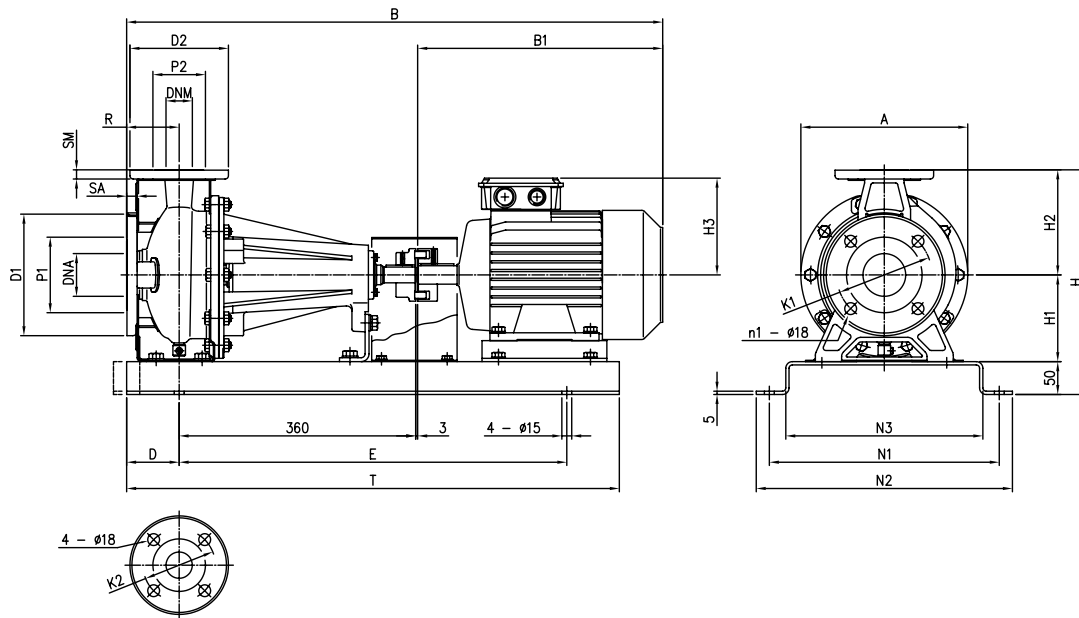
## 4 POLES



## DIMENSIONAL TABLE

Model 3(L)S	Dimensions (mm)																			Weight
	Ø DNA	Ø DNM	n1		Ø P1	Ø K1	Ø D1	SA	Ø P2	Ø K2	Ø D2	H	H1	H2	W	N1	N2	M	A	kg
50-200/2.2	65	50	4	-	116	145	185	16	96	125	165	360	160	200	70	212	265	139	296	42,8
65-160/2.2	80	65	8	4	134	160	200	18	115	145	185	360	160	200	95	212	280	149,5	296	43,7
65-200/2.2R	80	65	8	4	134	160	200	18	115	145	185	405	180	225	95	250	320	149,5	296	44,8
65-200/2.2	80	65	8	4	134	160	200	18	115	145	185	405	180	225	95	250	320	149,5	296	45
65-200/3.0	80	65	8	4	134	160	200	18	115	145	185	405	180	225	95	250	320	149,5	296	48,2

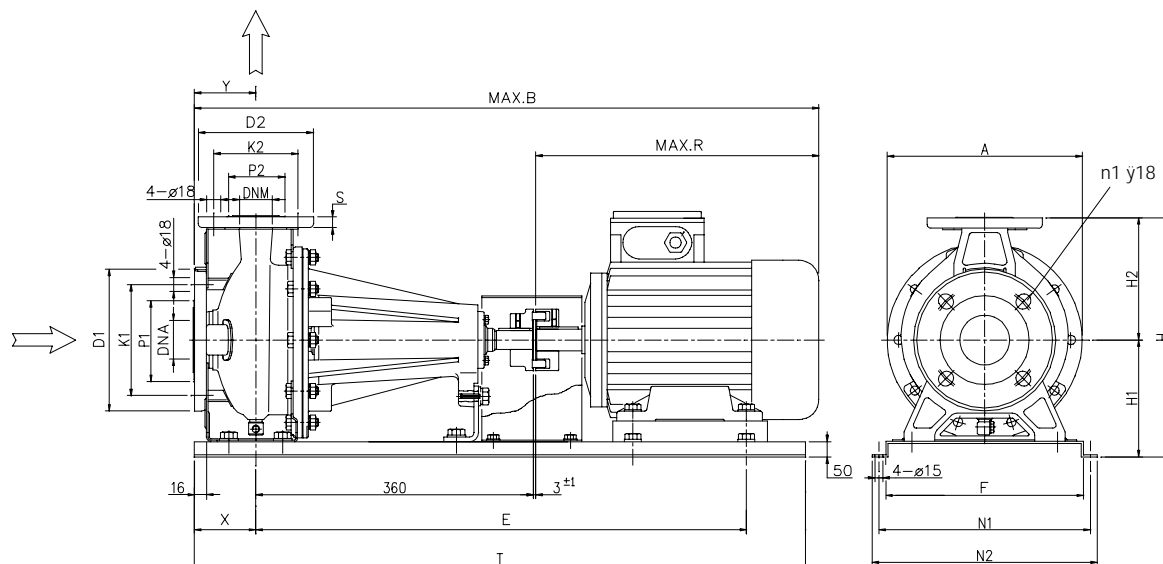
### 3P (3LP)



### DIMENSIONAL TABLE

Model 3(L)P	Dimensions (mm)																											Weight
	Ø DNA	Ø DNM	n1 P1	[1]	Ø [2]	Ø K1	D1	SA	Ø P2	Ø K2	Ø D2	SM	H	H1	H2	H3 [3] [4]		R	A	B	B1	D	E	N1	N2	N3	T	kg
32-125/1,1 (M)	50	32	95	4	-	125	165	16	75	100	140	14	302	112	140	129	150	80	213	715	272	80	550	300	340	250	710	43,5
32-160/1,5 (M)	50	32	95	4	-	125	165	16	75	100	140	14	342	132	160	138	160	80	254	760	317	80	590	350	390	300	750	51
32-160/2,2 (M)	50	32	95	4	-	125	165	16	75	100	140	14	342	132	160	138	160	80	254	760	317	80	590	350	390	300	750	53,5
32-200/3	50	32	95	4	-	125	165	16	75	100	140	14	390	160	180	145	-	80	296	809	366	80	590	350	390	300	750	68
32-200/4	50	32	95	4	-	125	165	16	75	100	140	14	390	160	180	161	-	80	296	831	388	80	590	350	390	300	750	72
32-200/5,5	50	32	95	4	-	125	165	16	75	100	140	14	390	160	180	198	-	80	296	893	450	100	650	350	390	300	850	88
32-200/7,5	50	32	95	4	-	125	165	16	75	100	140	14	390	160	180	198	-	80	296	893	450	100	650	350	390	300	820	99,8
40-125/1,5 (M)	65	40	115	4	-	145	185	16	80	110	150	14	302	112	140	138	160	80	213	760	317	80	550	300	340	250	710	48,5
40-125/2,2 (M)	65	40	115	4	-	145	185	16	80	110	150	14	302	112	140	138	160	80	213	760	317	80	550	300	340	250	710	51
40-160/3	65	40	115	4	-	145	185	16	80	110	150	14	342	132	160	145	-	80	254	809	366	80	590	350	390	300	750	77,5
40-160/4	65	40	115	4	-	145	185	16	80	110	150	14	342	132	160	161	-	80	254	831	388	80	590	350	390	300	750	64,5
40-200/5,5	65	40	115	4	-	145	185	16	80	110	150	14	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	89
40-200/7,5	65	40	115	4	-	145	185	16	80	110	150	14	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	94,5
40-200/11	65	40	115	4	-	145	185	16	80	110	150	14	390	160	180	246	-	100	296	1076	613	100	800	380	420	330	1000	117
50-125/2,2 (M)	65	50	115	4	-	145	185	16	95	125	165	16	342	132	160	138	160	100	254	780	317	80	590	350	390	300	750	132
50-125/3	65	50	115	4	-	145	185	16	95	125	165	16	342	132	160	145	-	100	254	829	366	80	590	350	390	300	750	79
50-125/4	65	50	115	4	-	145	185	16	95	125	165	16	342	132	160	161	-	100	254	851	388	80	590	350	390	300	750	81,5
50-160/5,5	65	50	115	4	-	145	185	16	95	125	165	16	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	89
50-160/7,5	65	50	115	4	-	145	185	16	95	125	165	16	390	160	180	198	-	100	296	913	450	100	650	350	390	300	850	94,5
50-200/9,2	65	50	115	4	-	145	185	16	95	125	165	16	410	160	200	198	-	100	296	951	488	100	650	350	390	300	850	100
50-200/11	65	50	115	4	-	145	185	16	95	125	165	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	117,5
50-200/15	65	50	115	4	-	145	185	16	95	125	165	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	125,4
65-125/4	80	65	134	8	4	160	200	18	115	145	185	16	390	160	180	161	-	100	254	851	388	80	590	350	390	300	750	82
65-125/5,5	80	65	134	8	4	160	200	18	115	145	185	16	390	160	180	198	-	100	254	913	450	100	650	350	390	300	850	90
65-125/7,5	80	65	134	8	4	160	200	18	115	145	185	16	390	160	180	198	-	100	254	913	450	100	650	350	390	300	850	97
65-160/7,5	80	65	134	8	4	160	200	18	115	145	185	16	410	160	200	198	-	100	296	913	450	100	650	350	390	300	850	103
65-160/9,2	80	65	134	8	4	160	200	18	115	145	185	16	410	160	200	198	-	100	296	951	450	100	650	350	390	300	850	107
65-160/11	80	65	134	8	4	160	200	18	115	145	185	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	114
65-160/15	80	65	134	8	4	160	200	18	115	145	185	16	410	160	200	246	-	100	296	1076	613	100	800	380	420	330	1000	119
65-200/15	80	65	134	8	4	160	200	18	115	145	185	16	455	180	225	246	-	100	296	1076	613	100	800	380	420	330	1000	127
65-200/18,5	80	65	134	8	4	160	200	18	115	145	185	16	455	180	225	246	-	100	296	1120	657	100	800	380	420	330	1000	139
65-200/22	80	65	134	8	4	160	200	18	115	145	185	16	455	180	225	266	-	100	296	1175	712	100	800	410	450	360	1000	182

[1] Standard  
[2] On request



### DIMENSIONAL TABLE

Model 3(L)P4	Dimensions (mm)																								Weight kg
	ØDNA	ØDNM	[1]	n <sup>1</sup> [2]	S	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	A	B	E	F	H	H1	H2	N1	N2	X	Y	R	T	
32-125/0.25	50	32	4	-	14	165	125	95	140	100	75	213	683	550	250	302	162	140	300	340	80	80	240	710	37,0
32-160/0.37R	50	32	4	-	14	165	125	95	140	100	75	254	683	510	300	342	182	160	350	390	80	80	240	670	41,0
32-160/0.37	50	32	4	-	14	165	125	95	140	100	75	254	683	510	300	342	182	160	350	390	80	80	240	670	41,0
32-200/0.55R	50	32	4	-	14	165	125	95	140	100	75	296	717	510	300	390	210	180	350	390	80	80	274	670	53,5
32-200/0.55	50	32	4	-	14	165	125	95	140	100	75	296	717	510	300	390	210	180	350	390	80	80	274	670	53,5
32-200/0.75	50	32	4	-	14	165	125	95	140	100	75	296	717	510	300	390	210	180	350	390	80	80	274	670	54,5
40-125/0.37R	65	40	4	-	14	185	145	115	150	110	80	213	683	550	250	302	162	140	300	340	80	80	240	710	46,5
40-125/0.37	65	40	4	-	14	185	145	115	150	110	80	213	683	550	250	302	162	140	300	340	80	80	240	710	46,5
40-160/0.55R	65	40	4	-	14	185	145	115	150	110	80	254	717	510	300	342	182	160	350	390	80	80	274	670	44,5
40-160/0.55	65	40	4	-	14	185	145	115	150	110	80	254	717	510	300	342	182	160	350	390	80	80	274	670	44,5
40-200/1.1R	65	40	4	-	14	185	145	115	150	110	80	296	795	590	300	390	210	180	350	390	80	80	332	750	61,5
40-200/1.1	65	40	4	-	14	185	145	115	150	110	80	296	795	590	300	390	210	180	350	390	80	80	332	750	61,5
40-200/1.5	65	40	4	-	14	185	145	115	150	110	80	296	795	510	300	390	210	180	350	390	80	80	332	750	64,0
50-125/0.55R	65	50	4	-	16	185	145	115	165	125	95	254	737	510	300	342	182	160	350	390	80	80	274	670	45,0
50-125/0.55	65	50	4	-	16	185	145	115	165	125	95	254	737	590	300	342	182	160	350	390	80	80	274	670	45,0
50-160/1.1R	65	50	4	-	16	185	145	115	165	125	95	296	795	590	300	390	210	180	350	390	80	80	332	750	52,5
50-160/1.1	65	50	4	-	16	185	145	115	165	125	95	296	795	590	300	390	210	180	350	390	80	80	332	750	52,5
50-200/1.5R	65	50	4	-	16	185	145	115	165	125	95	296	795	590	300	410	210	200	350	390	80	80	332	750	64,0
50-200/1.5	65	50	4	-	16	185	145	115	165	125	95	296	795	590	300	410	210	200	350	390	80	80	332	750	64,0
50-200/2.2	65	50	4	-	16	185	145	115	165	125	95	296	863	590	300	410	210	200	350	390	80	80	400	750	70
65-125/0.55	80	65	8	4	16	200	185	134	185	145	115	254	735	510	300	390	160	180	350	390	80	100	272	670	48,6
65-125/0.75	80	65	8	4	16	200	185	134	185	145	115	254	735	510	300	390	160	180	350	390	80	100	272	670	49,8
65-125/1.1	80	65	8	4	16	200	185	134	185	145	115	254	780	590	300	390	160	180	350	390	80	100	317	750	56,1
65-160/1.1	80	65	8	4	16	200	185	134	185	145	115	296	780	590	300	410	160	200	350	390	80	100	317	750	62,6
65-160/1.5	80	65	8	4	16	200	185	134	185	145	115	296	780	590	300	410	160	200	350	390	80	100	317	750	63,7
65-160/2.2	80	65	8	4	16	200	185	134	185	145	115	296	829	590	300	410	160	200	350	390	80	100	366	750	71,5
65-200/2.2R	80	65	8	4	16	200	185	134	185	145	115	296	829	590	330	455	180	225	380	420	80	100	366	750	74,1
65-200/2.2	80	65	8	4	16	200	185	134	185	145	115	296	829	590	330	455	180	225	380	420	80	100	366	750	74,2
65-200/3.0	80	65	8	4	16	200	185	134	185	145	115	296	829	590	330	455	180	225	380	420	80	100	366	750	77,5

[1] Standard

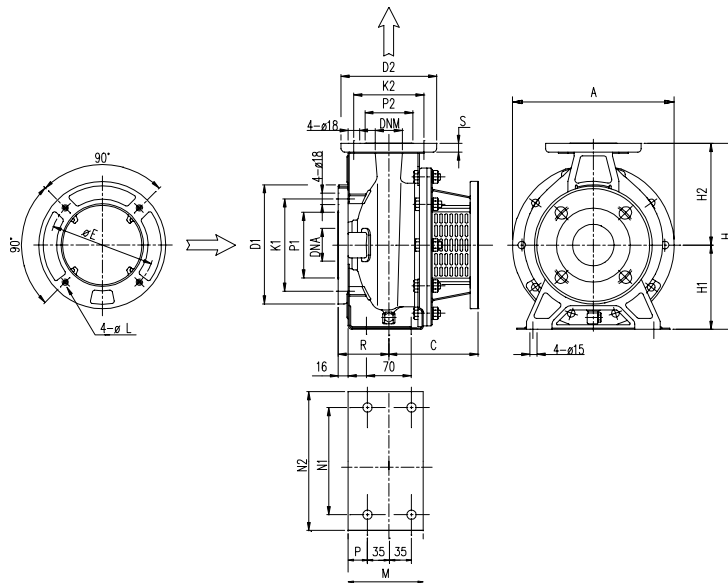
[2] On request

### 3SF - 3SF4 (3LSF - 3LSF4)

### 2 POLES

DIMENSIONAL TABLE

Model 3(L)SF	Dimensions (mm)																				
	ØDNA	ØDNM	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	A	C	E	H	H1	H2	L	M	N1	N2	P	R	S
32-125/1,1	50	32	165	125	96	140	100	76	213	118	165	252	112	140	M10	114	140	190	29	80	14
32-160/1,5	50	32	165	125	96	140	100	76	254	130	165	292	132	160	M10	118	190	240	29	80	14
32-160/2,2	50	32	165	125	96	140	100	76	254	130	165	292	132	160	M10	118	190	240	29	80	14
32-200/3	50	32	165	125	96	140	100	76	294	142	215	340	160	180	M12	119	190	240	29	80	14
32-200/4	50	32	165	125	96	140	100	76	294	142	215	340	160	180	M12	119	190	240	29	80	14
32-200/5,5	50	32	165	125	96	140	100	76	294	165	265	340	160	180	M12	119	190	240	29	80	14
32-200/7,5	50	32	165	125	96	140	100	76	294	165	265	340	160	180	M12	119	190	240	29	80	14
40-125/1,5	65	40	185	145	116	150	110	81	213	130	165	252	112	140	M10	114	160	210	29	80	14
40-125/2,2	65	40	185	145	116	150	110	81	213	130	165	252	112	140	M10	114	160	210	29	80	14
40-160/3	65	40	185	145	116	150	110	81	254	142	215	292	132	160	M12	118	190	240	29	80	14
40-160/4	65	40	185	145	116	150	110	81	254	142	215	292	132	160	M12	118	190	240	29	80	14
40-200/5,5	65	40	185	145	116	150	110	81	294	165	265	340	160	180	M12	115	212	265	25	80	14
40-200/7,5	65	40	185	145	116	150	110	81	294	165	265	340	160	180	M12	115	212	265	25	100	14
40-200/11	65	40	185	145	116	150	110	81	294	198	300	340	160	180	M16	115	212	265	25	100	14
50-125/2,2	65	50	185	145	116	165	125	96	254	142	215	292	132	160	M12	114	190	240	25	100	16
50-125/3	65	50	185	145	116	165	125	96	254	142	215	292	132	160	M12	114	190	240	25	100	16
50-125/4	65	50	185	145	116	165	125	96	254	142	215	292	132	160	M12	114	190	240	25	100	16
50-160/5,5	65	50	185	145	116	165	125	96	296	165	265	340	160	180	M12	115	212	265	25	100	16
50-160/7,5	65	50	185	145	116	165	125	96	296	165	265	340	160	180	M12	115	212	265	25	100	16
50-200/9,2	65	50	185	145	116	165	125	96	296	165	265	360	160	200	M12	115	212	265	25	390	16
50-200/11	65	50	185	145	116	165	125	96	296	198	300	360	160	200	M16	115	212	265	25	390	16
50-200/15	65	50	185	145	116	165	125	96	296	198	300	360	160	200	M16	115	212	265	25	390	16



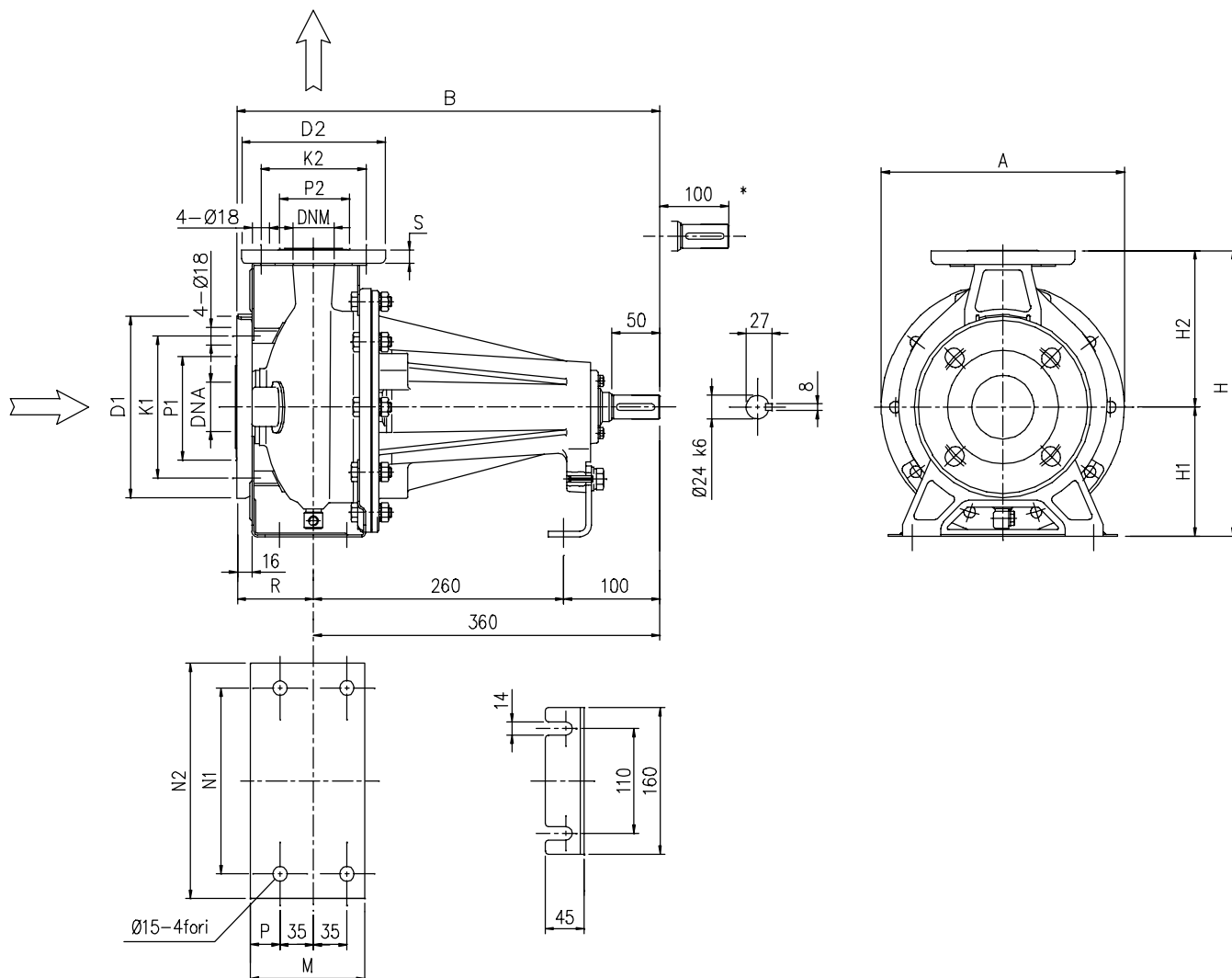
### 3SF4 (3LSF4)

### 4 POLES

DIMENSIONAL TABLE

Model 3(L)SF4	Dimensions (mm)																				
	ØDNA	ØDNM	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	A	C	E	H	H1	H2	L	M	N1	N2	P	R	S
32-125/0,25	50	32	165	125	96	140	100	76	213	108	130	252	112	140	M8	114	140	190	29	80	14
32-160/0,37R	50	32	165	125	96	140	100	76	254	108	130	292	132	160	M8	118	190	240	29	80	14
32-160/0,37	50	32	165	125	96	140	100	76	254	108	130	292	132	160	M8	118	190	240	29	80	14
32-200/0,55R	50	32	165	125	96	140	100	76	296	118	165	340	160	180	M10	119	190	240	29	80	14
32-200/0,55	50	32	165	125	96	140	100	76	296	118	165	340	160	180	M10	119	190	240	29	80	14
32-200/0,75	50	32	165	125	96	140	100	76	296	118	165	340	160	180	M10	119	190	240	29	80	14
40-125/0,37R	65	40	185	145	116	150	110	81	213	118	130	252	112	140	M8	114	160	210	29	80	14
40-125/0,37	65	40	185	145	116	150	110	81	213	118	130	252	112	140	M8	114	160	210	29	80	14
40-160/0,55R	65	40	185	145	116	150	110	81	254	118	165	292	132	160	M10	118	190	240	29	80	14
40-160/0,55	65	40	185	145	116	150	110	81	254	118	165	292	132	160	M10	118	190	240	29	80	14
40-200/1,1R	65	40	185	145	116	150	110	81	294	130	165	340	160	180	M10	115	212	265	25	100	14
40-200/1,1	65	40	185	145	116	150	110	81	294	130	165	340	160	180	M10	115	212	265	25	100	14
40-200/1,5	65	40	185	145	116	150	110	81	294	130	165	340	160	180	M10	115	212	265	25	100	14
50-125/0,55R	65	50	185	145	116	165	125	96	254	118	165	292	132	160	M10	114	190	240	25	100	16
50-125/0,55	65	50	185	145	116	165	125	96	254	118	165	292	132	160	M10	114	190	240	25	100	16
50-160/1,1R	65	50	185	145	116	165	125	96	296	130	165	340	160	180	M10	115	212	265	25	100	16
50-160/1,1	65	50	185	145	116	165	125	96	296	130	165	340	160	180	M10	115	212	265	25	100	16
50-200/1,5R	65	50	185	145	116	165	125	96	296	130	165	360	160	200	M10	115	212	265	25	100	16
50-200/1,5	65	50	185	145	116	165	125	96	296	130	165	360	160	200	M10	115	212	265	25	100	16
50-200/2,2	65	50	185	145	116	165	125	96	296	130	215	360	160	200	M12	115	212	265	25	100	16

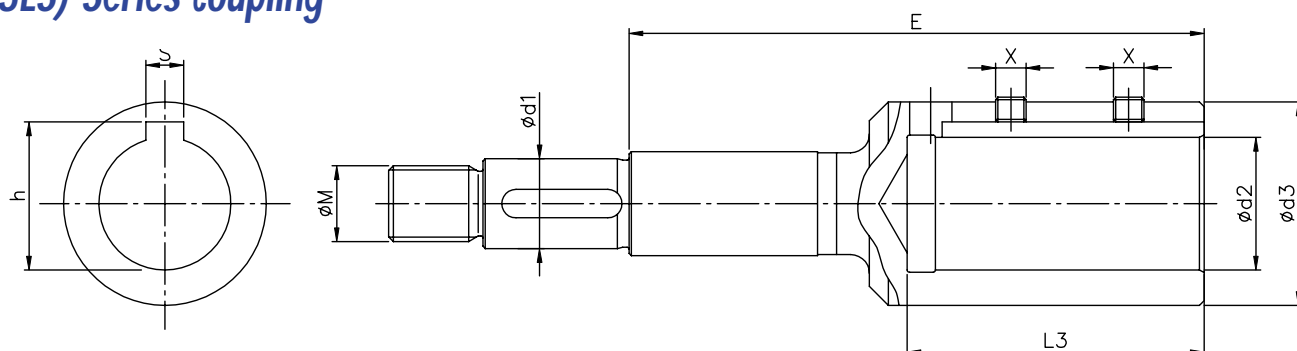
### 3(L)PF



### DIMENSIONAL TABLE

Model 3(L)PF	Dimensions (mm)																			Weight kg
	ØDNA	ØDNM	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	A	B	H	H1	H2	M	N1	N2	P	R	S	
32-125	50	32	165	125	95	140	100	75	213	440	252	112	140	114	140	190	29	80	14	18,0
32-160	50	32	165	125	95	140	100	75	254	440	292	132	160	118	190	240	29	80	14	20,0
32-200	50	32	165	125	95	140	100	75	296	440	340	160	180	119	190	240	29	80	14	28,5
40-125	65	40	185	145	115	150	110	80	213	440	252	112	140	114	160	210	29	80	14	18,0
40-160	65	40	185	145	115	150	110	80	254	440	292	132	160	118	190	240	29	80	14	20,0
40-200	65	40	185	145	115	150	110	80	296	460	340	160	180	115	212	265	25	100	14	29,0
50-125	65	50	185	145	115	165	125	95	254	460	292	132	160	114	190	240	25	100	16	20,0
50-160	65	50	185	145	115	165	125	95	296	460	340	160	180	115	212	265	25	100	16	29,0
50-200	65	50	185	145	115	165	125	95	296	460	360	160	200	115	212	265	25	100	16	29,5

### 3S (3LS) Series coupling



**DIMENSIONAL TABLE**

**2 POLES**

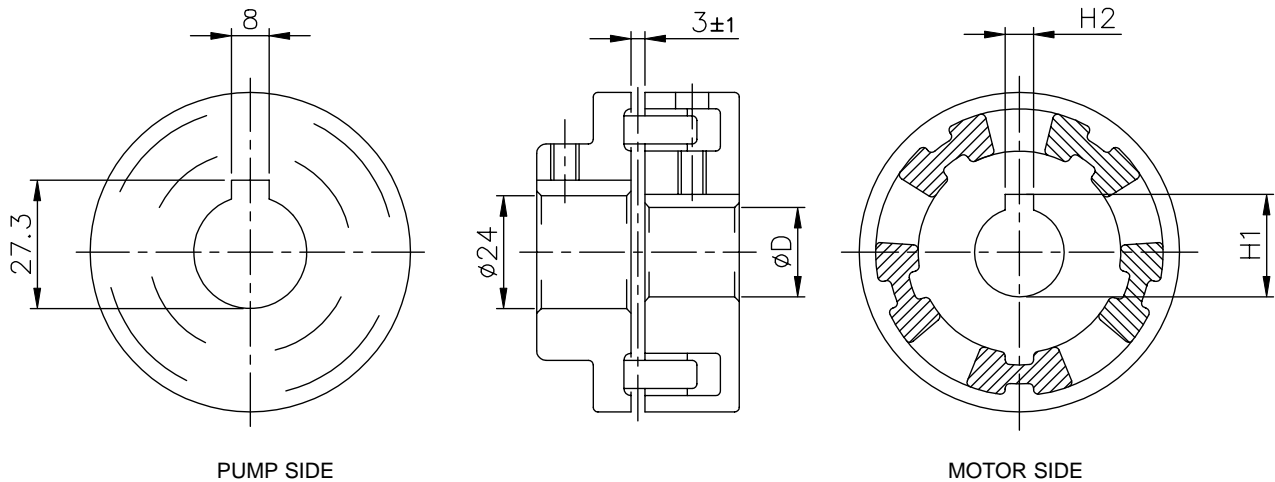
Pump Type 3S	kW	HP	Motor		Dimensions (mm)									
			Size	Type	d1	d2	d3	L3	M	Size	Standard	h	S	E
32-125/N	1,1	1,5	80	B5	19	33	19	43	16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
32-160/R	1,5	2	90	B5	19	39	24	53	16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
32-160/N	2,2	3	90	B5	19	39	24	53	16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
32-200/R	3	4	100	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	8	122
32-200/N	4	5,5	112	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	8	122
32-200/L	5,5	7,5	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
32-200/EL	7,5	10	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
40-125/R	1,5	2	90	B5	19	39	24	53	16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
40-125/N	2,2	3	90	B5	19	39	24	53	16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
40-160/R	3	4	100	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	8	122
40-160/N	4	5,5	112	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	8	122
40-200/R	5,5	7,5	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
40-200/N	7,5	10	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
40-200/L	11	15	160	B35	19	63	42	114	16 x 1,5	M8 x 8	UNI 5929	45,3	12	178
50-125/S	2,2	3	90	B5	19	39	24	53	16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-125/R	3	4	100	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	-	122
50-125/N	4	5,5	112	B35	19	43	28	63	16 x 1,5	M8 x 8	UNI 5929	31,3	-	122
50-160/R	5,5	7,5	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
50-160/N	7,5	10	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
50-200/R	9,2	12,5	132	B35	19	58	38	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
50-200/N	11	15	160	B35	19	63	42	114	16 x 1,5	M8 x 8	UNI 5929	45,3	12	178
50-200/L	15	20	160	B35	22	63	42	114	18 x 1,5	M8 x 8	UNI 5929	45,3	12	209
65-125/R	4	5,5	112	B35	19	28	43	63	16 x 1,5	M8 x 8	UNI 5929	31,3	8	122
65-125/N	5,5	7,5	132	B35	19	38	58	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
65-125/L	7,5	10	132	B35	19	38	58	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
65-160/S	7,5	10	132	B35	19	38	58	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
65-160/R	9,2	12,5	132	B35	19	38	58	84	16 x 1,5	M8 x 8	UNI 5929	41,3	10	145
65-160/N	11	15	160	B35	19	42	63	114	16 x 1,5	M8 x 8	UNI 5929	45,3	12	178
65-160/L	15	20	160	B35	24	42	63	114	20 x 1,5	M8 x 8	UNI 5929	45,3	12	184
65-200/R	15	20	160	B35	24	42	63	114	20 x 1,5	M8 x 8	UNI 5929	45,3	12	184
65-200/N	18,5	25	160	B35	24	42	63	114	20 x 1,5	M8 x 8	UNI 5929	45,3	12	184
65-200/L	22	30	180	B35	24	48	72	114	20 x 1,5	M10 x 10	UNI 5929	51,8	14	184

**DIMENSIONAL TABLE**

**4 POLES**

3S4	kW	HP	Motor		Dimensions (mm)									
			Size	Type	d1	d2	d3	L3	M	Size	Standard	h	S	E
32-125/N	0,25	0,33	71	B5	19	14	28	33	M16 x 1,5	M5 x 6	UNI 5929	16,3	5	88
32-160/R	0,37	0,5	71	B5	19	14	28	33	M16 x 1,5	M5 x 6	UNI 5929	16,3	5	88
32-160/N	0,37	0,5	71	B5	19	14	28	33	M16 x 1,5	M5 x 6	UNI 5929	16,3	5	88
32-200/R	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
32-200/N	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
32-200/L	0,75	1	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
40-125/R	0,37	0,5	71	B5	19	14	28	33	M16 x 1,5	M5 x 6	UNI 5929	16,3	5	88
40-125/N	0,37	0,5	71	B5	19	14	28	33	M16 x 1,5	M5 x 6	UNI 5929	16,3	5	88
40-160/R	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
40-160/N	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
40-200/R	1,1	1,5	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
40-200/N	1,1	1,5	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
40-200/L	1,5	2	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-125/R	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
50-125/N	0,55	0,75	80	B5	19	19	33	43	M16 x 1,5	M6 x 6	UNI 5929	21,8	6	98
50-160/R	1,1	1,5	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-160/N	1,1	1,5	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-200/R	1,5	2	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-200/N	1,5	2	90	B5	19	24	39	53	M16 x 1,5	M8 x 8	UNI 5929	27,3	8	110
50-200/L	2,2	3	100	B35	22	28	43	63	M18 x 1,5	M8 x 8	UNI 5929	31,3	8	153

### 3(L)P Series coupling



### DIMENSIONAL TABLE

Pump type 3(L)P	kW	HP	Motor		Dimensions (mm)		
			Size	Type	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

3(L)P4	kW	HP	Motor		Dimensions (mm)		
			Size	Type	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	1,0	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	2,0	90	B3	24	27,3	8
65-160/2,2	2,2	3,0	100	B3	28	31,3	8
65-200/2,2R	2,2	3,0	100	B3	28	31,3	8
65-200/2,2	2,2	3,0	100	B3	28	31,3	8
65-200/3,0	3,0	4,0	100	B3	28	31,3	8



*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)  
-10°C÷+130°C (MMD)

### MATERIALS

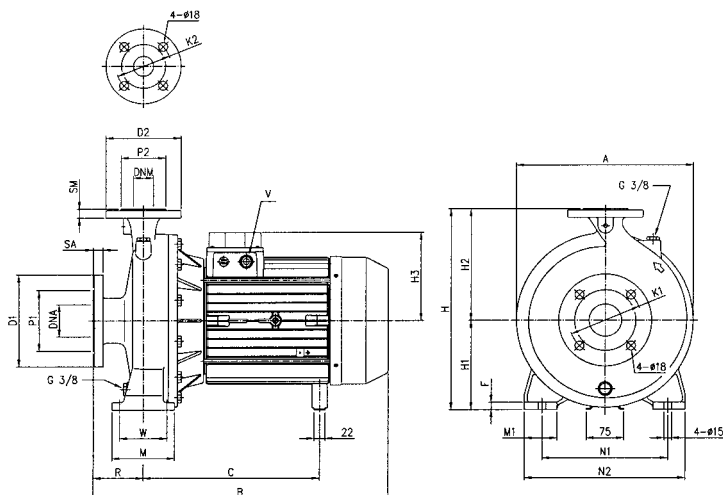
- Pump body and bracket in cast iron
- Shaft in AISI 304
- Mechanical seal in carbon/ceramic/NBR (MD)  
in SiC/SiC/EPDM (MMD)
- Impeller in cast iron and brass B10

### TECHNICAL DATA

- Asincronous 2 and 4 poles motor
- Insulation class F
- Protection degree IP55 (MD), IP54 (MMD)
- 1~230V ± 10% 50Hz, 3~230/400V ±10% 50Hz  
up to 4kW included, 400/690V ± 10% 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

### MD

### 2 POLES



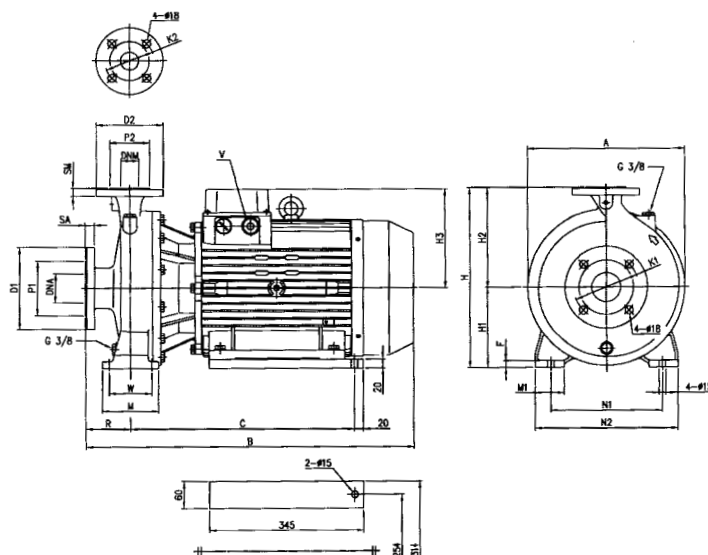
[1] = 3-  
[2] = 1-

### 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

### MD

### 2 POLES

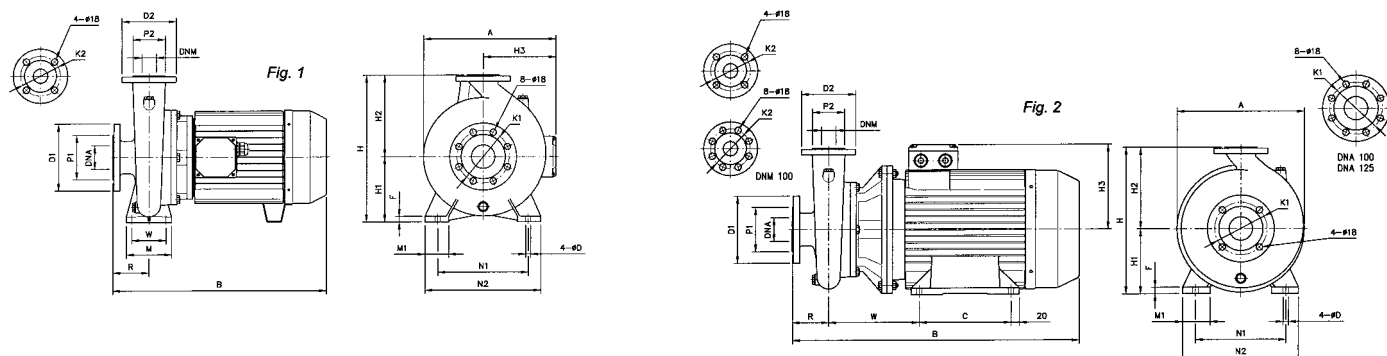


**DIMENSIONAL TABLE**

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
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
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
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
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
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
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

### MMD

### 2 POLES

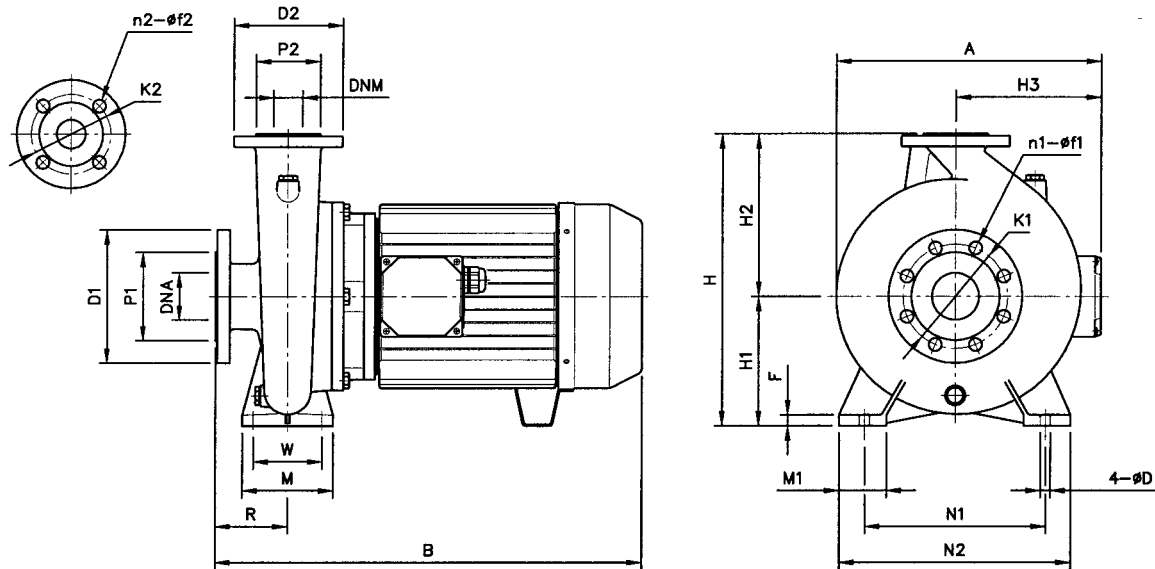


**DIMENSIONAL TABLE**

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

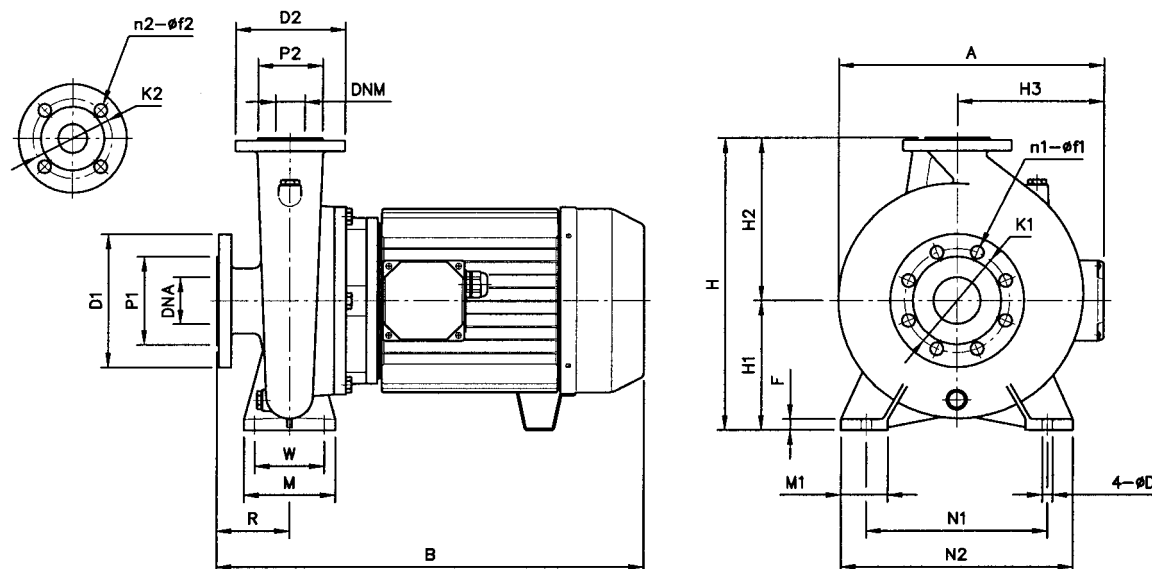


### DIMENSIONAL TABLE

Pump type	Dimensions (mm)																										Weight [kg]
	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	
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	352	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

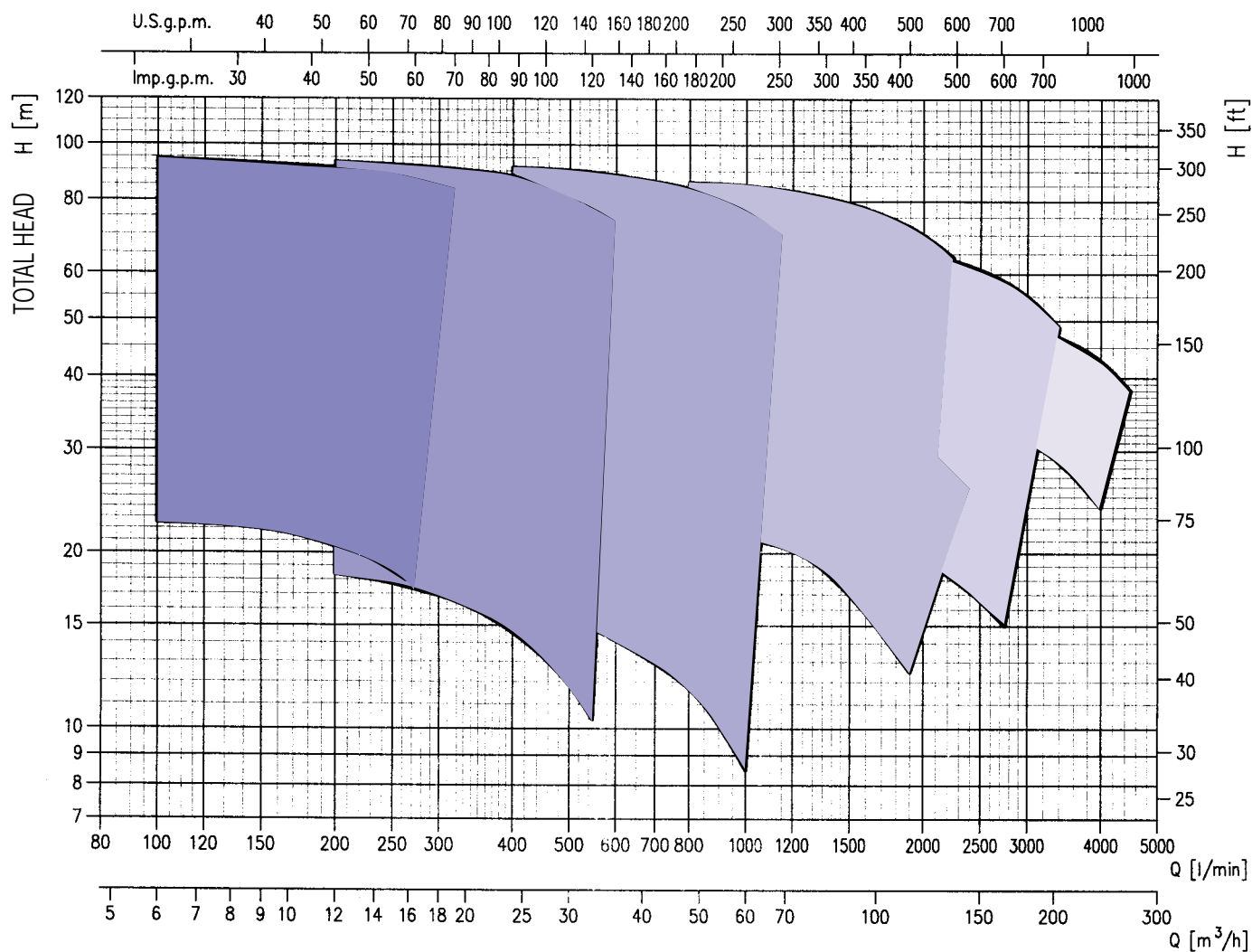


### DIMENSIONAL TABLE

Pump type	Dimensions (mm)																										Weight [kg]
	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	
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.  $\approx 2900 \text{ min}^{-1}$   
 Test fluid: Clean water 20°C  
 Applicable standard: UNI EN ISO 9906 Annex A

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

### DIMENSIONAL TABLE

Pump type	Motor		Q=Capacity																							
	kW	HP	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		
			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	33.5	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	35	31	30.5	28.5	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
	kW	HP	m³/h	0	48	60	75	90	105	120	135	150	165	180	210	240	270
			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	24.6	-	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**	-

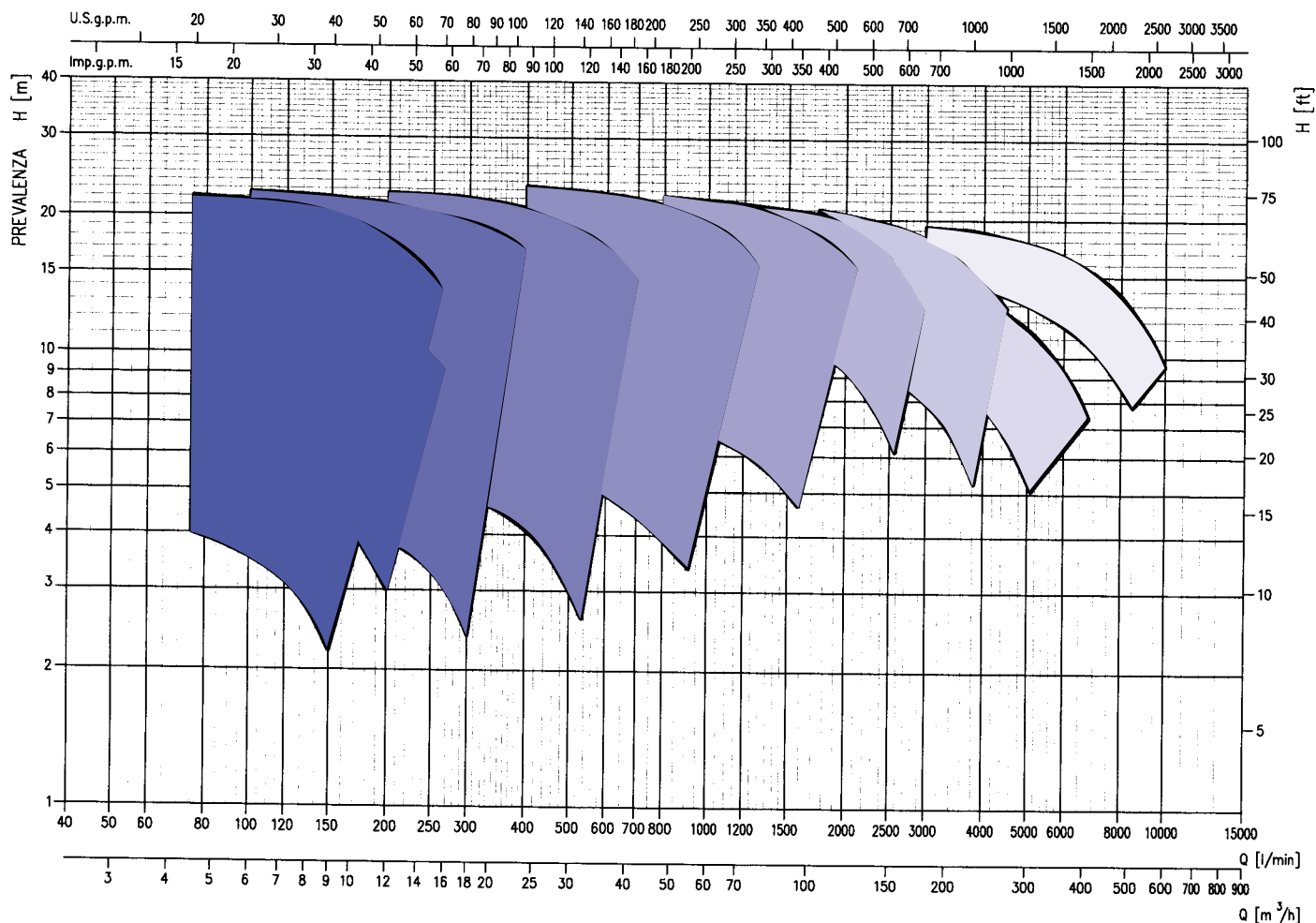
\*Suction head has not to exceed 2 m

\*\*Positive 1 m suction head



## PERFORMANCE CHART MMD4 series

4 POLES



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

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

### DIMENSIONAL TABLE

[illegible]

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	5.5	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**

*4" borehole multistage centrifugal pumps with a closed impeller constructed from noryl, outer casing and flanges are stainless steel AISI 304. Applications include clean water extraction from boreholes, pressure boosting for domestic, farming and industrial applications. Installation can be horizontal as well as vertical. The Winner can be fitted to any NEMA standard motor.*



### SPECIFICATIONS

- Maximum immersion: 100 m
- Maximum liquid temperature: 30°C with water filled motor  
40°C with oil filled motor
- Maximum sand content: 50 ppm

### MATERIAL

- External casing, suction and discharge ports, filter and diffuser casing in AISI 304
- Impeller and diffuser in tecnopolymer
- Shaft in AISI 304
- Mechanical seal in carbon/ceramic/NBR

### TECHNICAL DATA

- 2 poles motor, water filled (WY version) or oil filled (OY version)
- Maximum startings/hour: 30
- Insulation class F
- Protection degree IP58
- 1~220V  $\pm$  6% 50Hz, 3~380V  $\pm$  6% 50Hz
- DNM1 $\frac{1}{4}$ " for A-B-C models, 2" for D-E models

### TECHNICAL DATA

The pumps are manufactured to be coupled to NEMA standard motors. Improvements in design of impellers and diffusers lead to far better wear resistance, excluding the E15 series, offering the following advantages:

- axial thrust load on the motor shaft is drastically reduced leading to increased average life of the motor.
- Impeller outer diameter is wider than the usual one; so that similar performance are given by a reduced number of stage.
- a small quality of solids in the water is acceptable.

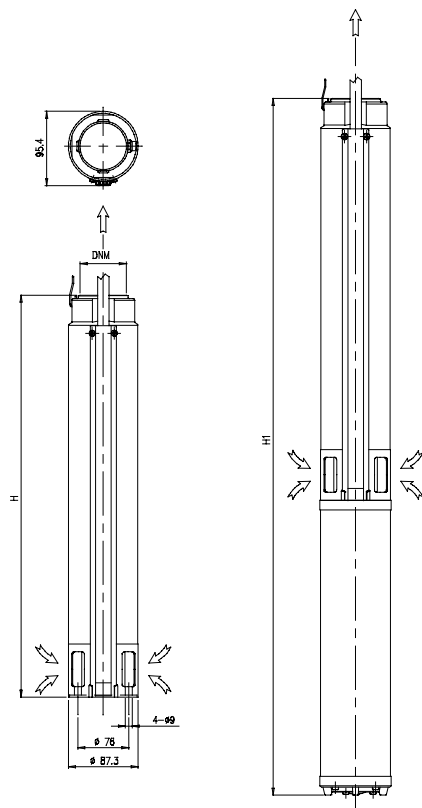
The built-in non-return valve is easy to remove and to inspect.

The components are over sized to facilitate the use of the pumps in even the most heavy conditions.

### PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)	
Single-phase 220V 50Hz	Three-phase 380V 50Hz		μF	V <sub>c</sub>	1~ 220V	3~ 380V
WYM 050 A1/14	WYT 050 A1/14	0,37	16	450	3,3	1,5
WYM 075 A1/21	WYT 075 A1/21	0,55	20	450	5,1	2,2
WYM 100 A1/28	WYT 100 A1/28	0,75	30	450	6	2,8
WYM 050 B2/7	WYT 050 B2/7	0,37	16	450	3,3	1,5
WYM 075 B2/10	WYT 075 B2/10	0,55	20	450	5,1	2,2
WYM 100 B2/14	WYT 100 B2/14	0,75	30	450	6	2,8
WYM 150 B2/21	WYT 150 B2/21	1,1	40	450	8,7	3,7
WYM 200 B2/28	WYT 200 B2/28	1,5	60	450	11,2	4,8
WYM 300 B2/40	WYT 300 B2/40	2,2	80	450	16,7	6,9
WYM 050 C4/4	WYT 050 C4/4	0,37	16	450	3,3	1,5
WYM 075 C4/6	WYT 075 C4/6	0,55	20	450	5,1	2,2
WYM 100 C4/9	WYT 100 C4/9	0,75	30	450	6	2,8
WYM 150 C4/13	WYT 150 C4/13	1,1	40	450	8,7	3,7
WYM 200 C4/18	WYT 200 C4/18	1,5	60	450	11,2	4,8
WYM 300 C4/27	WYT 300 C4/27	2,2	80	450	16,7	6,9
WYM 100 C5/7	WYT 100 C5/7	0,75	30	450	6	2,8
WYM 150 C5/10	WYT 150 C5/10	1,1	40	450	8,7	3,7
WYM 200 C5/14	WYT 200 C5/14	1,5	60	450	11,2	4,8
WYM 300 C5/21	WYT 300 C5/21	2,2	80	450	16,7	6,9
-	WYT 400 C5/28	3,0	-	-	-	9,6
-	WYT 550 C5/38	4,0	-	-	-	10,9
WYM 075 D9/4	WYT 075 D9/4	0,55	20	450	5,1	2,2
WYM 100 D9/5	WYT 100 D9/5	0,75	30	450	6	2,8
WYM 150 D9/7	WYT 150 D9/7	1,1	40	450	8,7	3,7
WYM 200 D9/9	WYT 200 D9/9	1,5	60	450	11,2	4,8
WYM 300 D9/14	WYT 300 D9/14	2,2	80	450	16,7	6,9
-	WYT 400 D9/19	3,0	-	-	-	9,6
-	WYT 550 D9/26	4,0	-	-	-	10,9
WYM 150 E15/4	WYT 150 E15/4	1,1	40	450	8,7	3,7
WYM 200 E15/6	WYT 200 E15/6	1,5	60	450	11,2	4,8
WYM 300 E15/9	WYT 300 E15/9	2,2	80	450	16,7	6,9
-	WYT 400 E15/12	3,0	-	-	-	9,6
-	WYT 550 E15/16	4,0	-	-	-	10,9
-	WYT 750 E15/22	5,5	-	-	-	13,5

Pump type		kW	Capacitor		Absorbed Current (A)	
Single-phase 220V 50Hz	Three-phase 380V 50Hz		μF	V <sub>c</sub>	1~ 220V	3~ 380V
OYM 050 A1/14	OYT 050 A1/14	0,37	20	450	3,2	1,4
OYM 075 A1/21	OYT 075 A1/21	0,55	25	450	4,4	1,8
OYM 100 A1/28	OYT 100 A1/28	0,75	35	450	5,6	2,5
OYM 050 B2/7	OYT 050 B2/7	0,37	20	450	3,2	1,4
OYM 075 B2/10	OYT 075 B2/10	0,55	25	450	4,4	1,8
OYM 100 B2/14	OYT 100 B2/14	0,75	35	450	5,6	2,5
OYM 150 B2/21	OYT 150 B2/21	1,1	40	450	7,7	3,3
OYM 200 B2/28	OYT 200 B2/28	1,5	60	450	10,8	4,4
OYM 300 B2/40	OYT 300 B2/40	2,2	80	450	15,1	6,1
OYM 050 C4/4	OYT 050 C4/4	0,37	20	450	3,2	1,4
OYM 075 C4/6	OYT 075 C4/6	0,55	25	450	4,4	1,8
OYM 100 C4/9	OYT 100 C4/9	0,75	35	450	5,6	2,5
OYM 150 C4/13	OYT 150 C4/13	1,1	40	450	7,7	3,3
OYM 200 C4/18	OYT 200 C4/18	1,5	60	450	10,8	4,4
OYM 300 C4/27	OYT 300 C4/27	2,2	80	450	15,1	6,1
OYM 100 C5/7	OYT 100 C5/7	0,75	35	450	5,6	2,5
OYM 150 C5/10	OYT 150 C5/10	1,1	40	450	7,7	3,3
OYM 200 C5/14	OYT 200 C5/14	1,5	60	450	10,8	4,4
OYM 300 C5/21	OYT 300 C5/21	2,2	80	450	15,1	6,1
-	OYT 400 C5/28	3,0	-	-	-	8,8
-	OYT 550 C5/38	4,0	-	-	-	11
OYM 075 D9/4	OYT 075 D9/4	0,55	25	450	4,4	1,8
OYM 100 D9/5	OYT 100 D9/5	0,75	35	450	5,6	2,5
OYM 150 D9/7	OYT 150 D9/7	1,1	40	450	7,7	3,3
OYM 200 D9/9	OYT 200 D9/9	1,5	60	450	10,8	4,4
OYM 300 D9/14	OYT 300 D9/14	2,2	80	450	15,1	6,1
-	OYT 400 D9/19	3,0	-	-	-	8,8
-	OYT 550 D9/26	4,0	-	-	-	11
OYM 150 E15/4	OYT 150 E15/4	1,1	40	450	7,7	3,3
OYM 200 E15/6	OYT 200 E15/6	1,5	60	450	10,8	4,4
OYM 300 E15/9	OYT 300 E15/9	2,2	80	450	15,1	6,1
-	OYT 400 E15/12	3,0	-	-	-	8,8
-	OYT 550 E15/16	4,0	-	-	-	11
-	OYT 750 E15/22	5,5	-	-	-	14,4

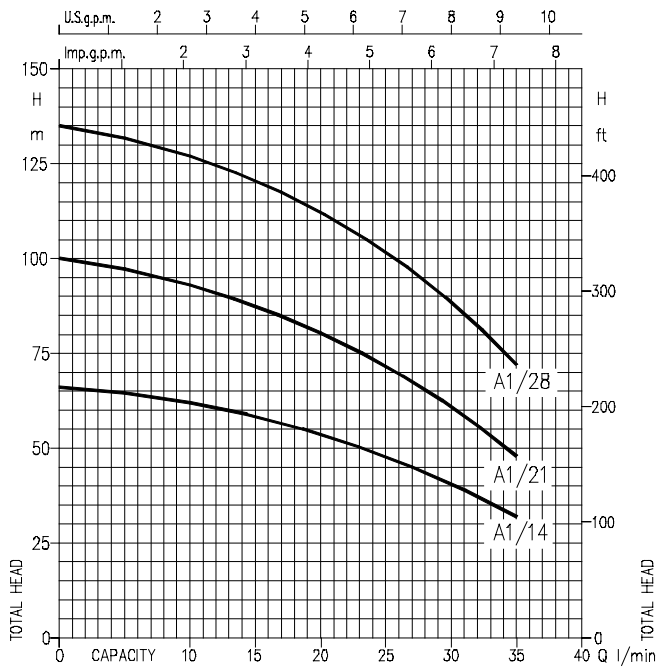


### DIMENSIONAL TABLE

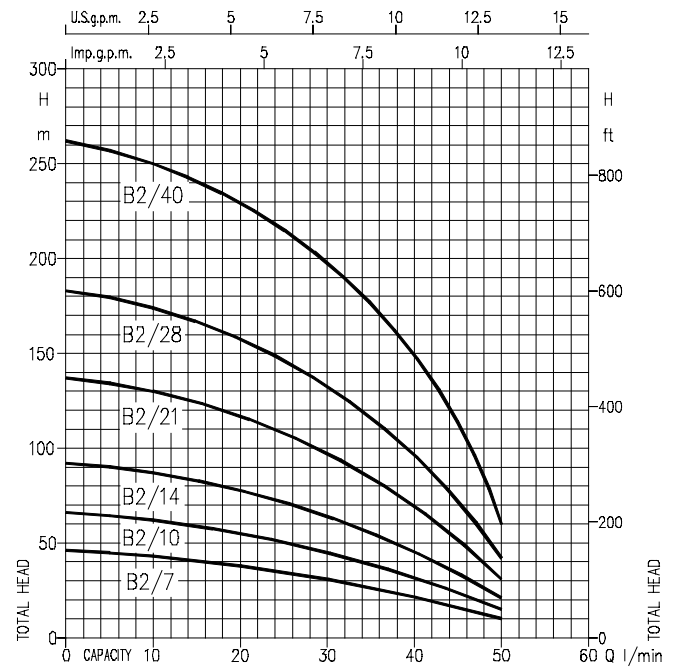
Pump type WINNER	Dimensions (mm)									
	H	H1				Weight kg				
	OYM	OYT	WYM	WYT	DNM	OYM	OYT	WYM	WYT	
A1/14	588,5	910	910	860	845	G1 ¼	12,9	12,3	13,9	13,3
A1/21	736	1082,5	1057,5	1032,5	1007,5	G1 ¼	15,8	14,7	16,7	15,7
A1/28	941	1322,5	1287,5	1272,5	1237,5	G1 ¼	20,3	18,7	21,2	19,6
B2/7	401	722,5	722,5	672,5	657,5	G1 ¼	11,2	10,6	12,2	11,6
B2/10	473	819,5	794,5	769,5	744,5	G1 ¼	13,2	12,1	14,1	13,1
B2/14	568,5	950	915	900	865	G1 ¼	16,1	14,5	17	15,4
B2/21	736	1152,5	1117,5	1102,5	1067,5	G1 ¼	19,6	18	20,2	18,8
B2/28	941	1407,5	1357,5	1357,5	1307,5	G1 ¼	24,6	22,4	25,2	23
B2/40	1228	1804,5	1694,5	1704,5	1644,5	G1 ¼	30,2	28,2	31,5	28,8
C4/4	337,5	659	659	609	594	G1 ¼	10,3	9,7	11,3	10,7
C4/6	389,5	736	711	686	661	G1 ¼	12,1	11	13	12
C4/9	467	848,5	813,5	798,5	763,5	G1 ¼	14,8	13,2	15,7	14,1
C4/13	570,5	987	952	937	902	G1 ¼	17,5	15,9	18,1	16,7
C4/18	700	1166,5	1116,5	1116,5	1066,5	G1 ¼	21,2	19	21,8	19,6
C4/27	971	1547,5	1437,5	1447,5	1387,5	G1 ¼	26,2	24,2	27,5	24,8
C5/7	513,5	895	860	845	810	G1 ¼	14,3	12,7	15,2	13,6
C5/10	633	1049,5	1014,5	999,5	964,5	G1 ¼	17	15,4	17,6	16,2
C5/14	793	1259,5	1209,5	1209,5	1159,5	G1 ¼	20,5	18,3	21,1	18,9
C5/21	1110	1686,5	1576,5	1586,5	1526,5	G1 ¼	24,2	22,2	25,5	22,8
C5/28	1389,5	-	1966	-	1891	G1 ¼	-	29,9	-	30,9
C5/38	1788,5	-	2435	-	2360	G1 ¼	-	36,9	-	37,5
D9/4	417,5	764	739	714	689	G2	12,2	11,1	13,1	12,1
D9/5	463,5	845	810	795	760	G2	14,3	12,7	15,2	13,6
D9/7	555	971,5	936,5	921,5	886,5	G2	17	15,4	17,6	16,2
D9/9	647	1113,5	1063,5	1063,5	1013,5	G2	20,5	18,3	21,1	18,9
D9/14	876,5	1453	1343	1353	1293	G2	24,7	22,7	26	23,3
D9/19	1144	-	1720,5	-	1645,5	G2	-	30	-	31
D9/26	1465,5	-	2112	-	2037	G2	-	36,4	-	37
E15/4	539	955,5	920,5	905,5	870,5	G2	17	15,4	17,6	16,2
E15/6	730	1196,5	1146,5	1146,5	1069,5	G2	21,3	19,1	21,9	19,7
E15/9	997,5	1574	1464	1474	1414	G2	27,2	25,2	28,5	25,8
E15/12	1265	-	1841,5	-	1766,5	G2	-	34	-	35
E15/16	1571	-	2217,5	-	2142,5	G2	-	38,9	-	39,5
E15/22	2068	-	2842,5	-	2749,5	G2	-	48	-	48,6

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

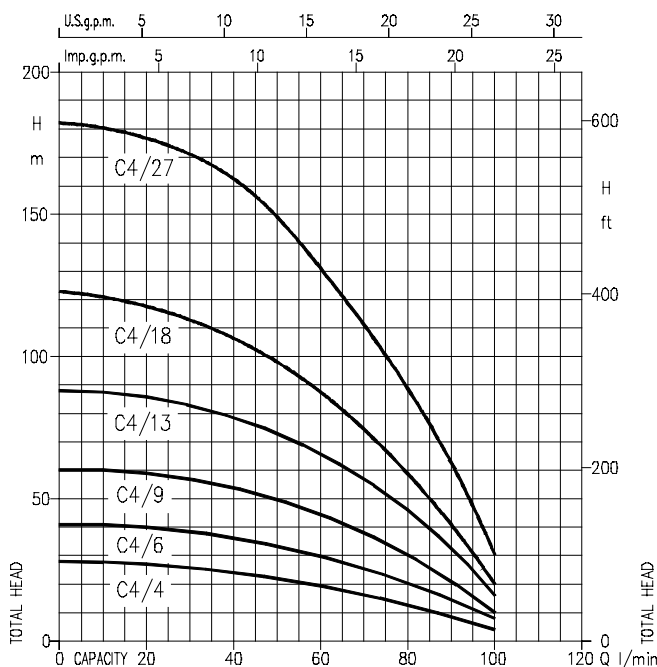
**A1**



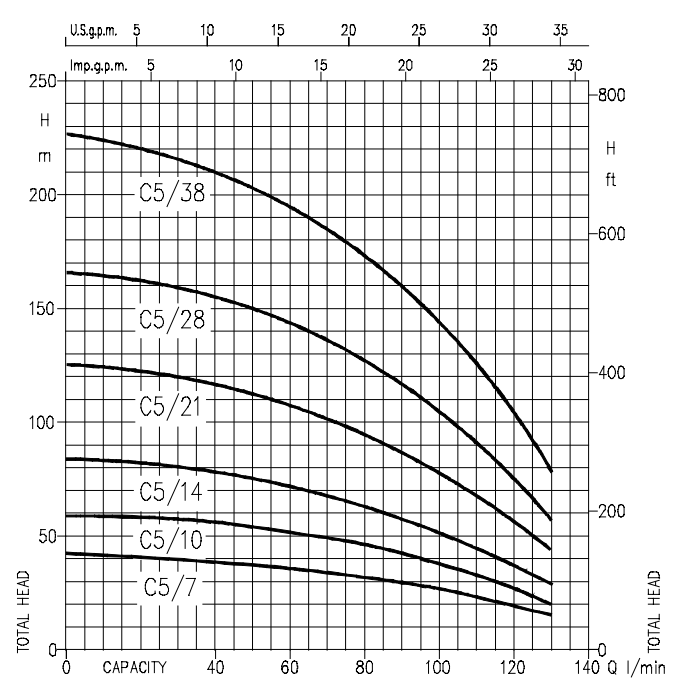
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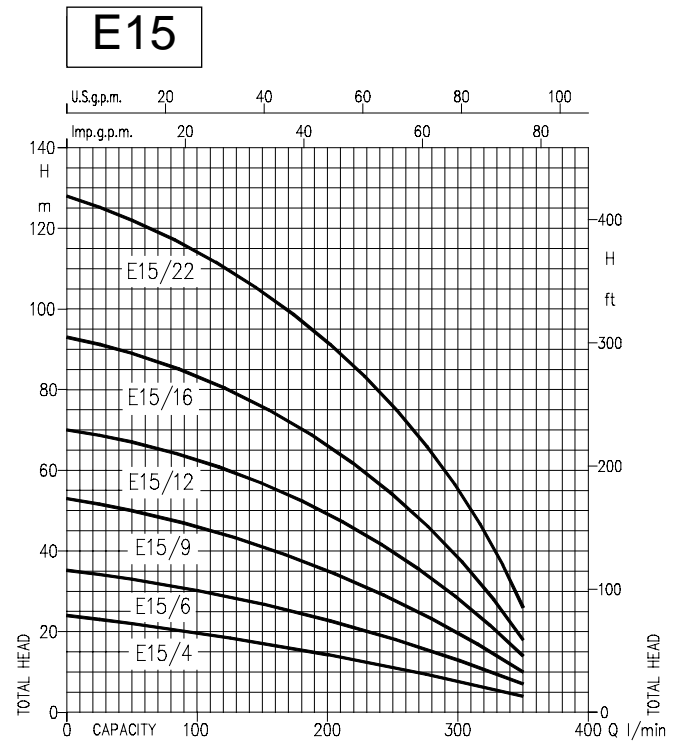
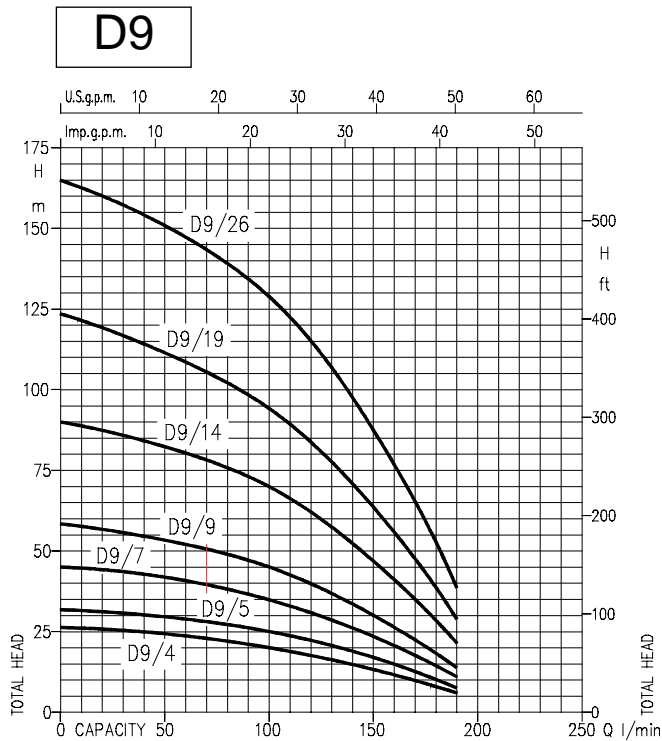
**C4**



**C5**



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



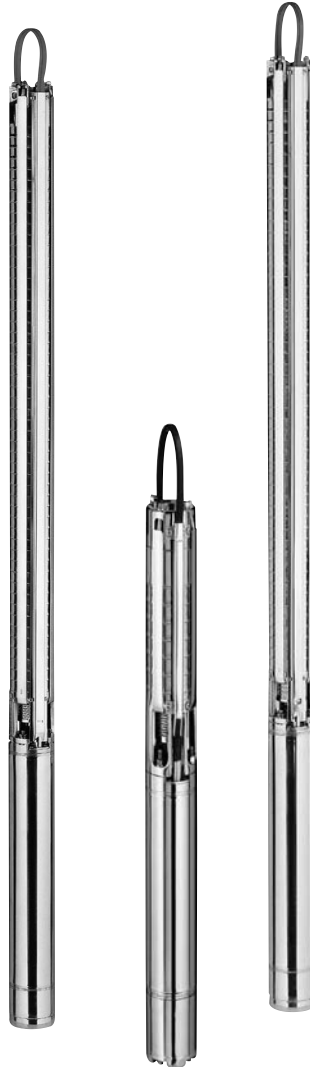
### PERFORMANCE TABLE

Pump type Winner WY - OY	KW	Q=Capacity																			
		l/min m³/h	10	15	20	25	30	35	40	50	60	80	100	130	150	160	190	200	250	300	350
			0,6	0,9	1,2	1,5	1,8	2,1	2,4	3	3,6	4,8	6	7,8	9	9,6	11,4	12	15	18	21
H=Total head																					
050 A1/14	0,37	62	58,4	53,6	47,7	40,5	32	-	-	-	-	-	-	-	-	-	-	-	-	-	
075 A1/21	0,55	93	87,4	80,3	71,6	60,9	48	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 A1/28	0,75	127	120,5	112,1	101,6	88,5	72	-	-	-	-	-	-	-	-	-	-	-	-	-	
050 B2/7	0,37	43	40,7	37,9		30,8		21,5	10	-	-	-	-	-	-	-	-	-	-	-	
075 B2/10	0,55	62	58,9	55		44,9		31,7	15	-	-	-	-	-	-	-	-	-	-	-	
100 B2/14	0,75	87	82,9	77,7		63,9		42,5	21	-	-	-	-	-	-	-	-	-	-	-	
150 B2/21	1,1	130	124,3	116,9		97,2		69,3	31	-	-	-	-	-	-	-	-	-	-	-	
200 B2/28	1,5	174	166,7	157,6		132,6		96,3	42	-	-	-	-	-	-	-	-	-	-	-	
300 B2/40	2,2	250	240,8	229,3		197,7		149,2	60	-	-	-	-	-	-	-	-	-	-	-	
050 C4/4	0,37			27		25,8		24,1	-	19,4	12,7	4	-	-	-	-	-	-	-	-	
075 C4/6	0,55			40		38,5		36,3	-	29,9	20,5	8	-	-	-	-	-	-	-	-	
100 C4/9	0,75			59		57		53,9	-	44,5	30,2	10	-	-	-	-	-	-	-	-	
150 C4/13	1,1			86		82,8		78,6	-	65,8	46	16	-	-	-	-	-	-	-	-	
200 C4/18	1,5			118		112,7		106,4	-	87,5	59,4	20	-	-	-	-	-	-	-	-	
300 C4/27	2,2			177		170,9		162,5	-	131	88,8	30	-	-	-	-	-	-	-	-	
100 C5/7	0,75					40		38,5	-	35,8	31,8	26,8	15	-	-	-	-	-	-	-	
150 C5/10	1,1					57		56,1	-	51,6	46,2	37,8	20	-	-	-	-	-	-	-	
200 C5/14	1,5					80		78,1	-	71,8	62,9	51,3	28	-	-	-	-	-	-	-	
300 C5/21	2,2					120		116,5	-	107,4	94,5	76,8	44	-	-	-	-	-	-	-	
400 C5/28	3,0					159		155	-	143,6	127	104,3	57	-	-	-	-	-	-	-	
550 C5/38	4,0					215		209,7	-	194,6	173,1	143,9	79	-	-	-	-	-	-	-	
075 D9/4	0,55							25	-	23,7	22,1	20,1	16,3		11,6	6	-	-	-	-	
100 D9/5	0,75							30	-	28,9	27,2	25,1	20,7		14,9	7	-	-	-	-	
150 D9/7	1,1							42	-	40,9	38,2	35	28,7		20,7	11	-	-	-	-	
200 D9/9	1,5							55	-	52,1	49,1	45,1	36,9		26,4	14	-	-	-	-	
300 D9/14	2,2							84	-	80,5	76	70,1	57,5		40,9	22	-	-	-	-	
400 D9/19	3,0							114	-	108,8	102,4	94,4	77,8		56	29	-	-	-	-	
550 D9/26	4,0							154	-	147,6	139,4	129,1	107,1		76,9	38	-	-	-	-	
150 E15/4	1,1							22				19,7		17,2			14,3	11,2	7,7	4	
200 E15/6	1,5							33				30,2		26,9			22,9	18,2	13	7	
300 E15/9	2,2							50				46,1		41,1			35,1	28	19,7	10	
400 E15/12	3,0							67				62,7		56,8			49,2	39,9	28,3	14	
550 E15/16	4,0							89				83,4		75,9			66,3	54	38,5	18	
750 E15/22	5,5							122				114,3		104,3			91,9	76	55,4	26	





*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.*



### SPECIFICATIONS

- Maximum immersion: 100 m
- Maximum liquid temperature: 30°C
- Maximum sand content: 50 ppm

### MATERIALS

- Bracket, suction and discharge ports, coupling, impeller, diffuser, diffuser cover, valve, tie-rod and cable guard in AISI 304
- Liner ring in tecnopolymer/AISI 304
- 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 (max liquid temperature 40°C)
- Pump W4BHS with motor WY in water bath (max liquid temperature 30°C)

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
- Protection degree IP58
- 1~220V  $\pm$  6% 50Hz, 3~380V  $\pm$  6% 50Hz

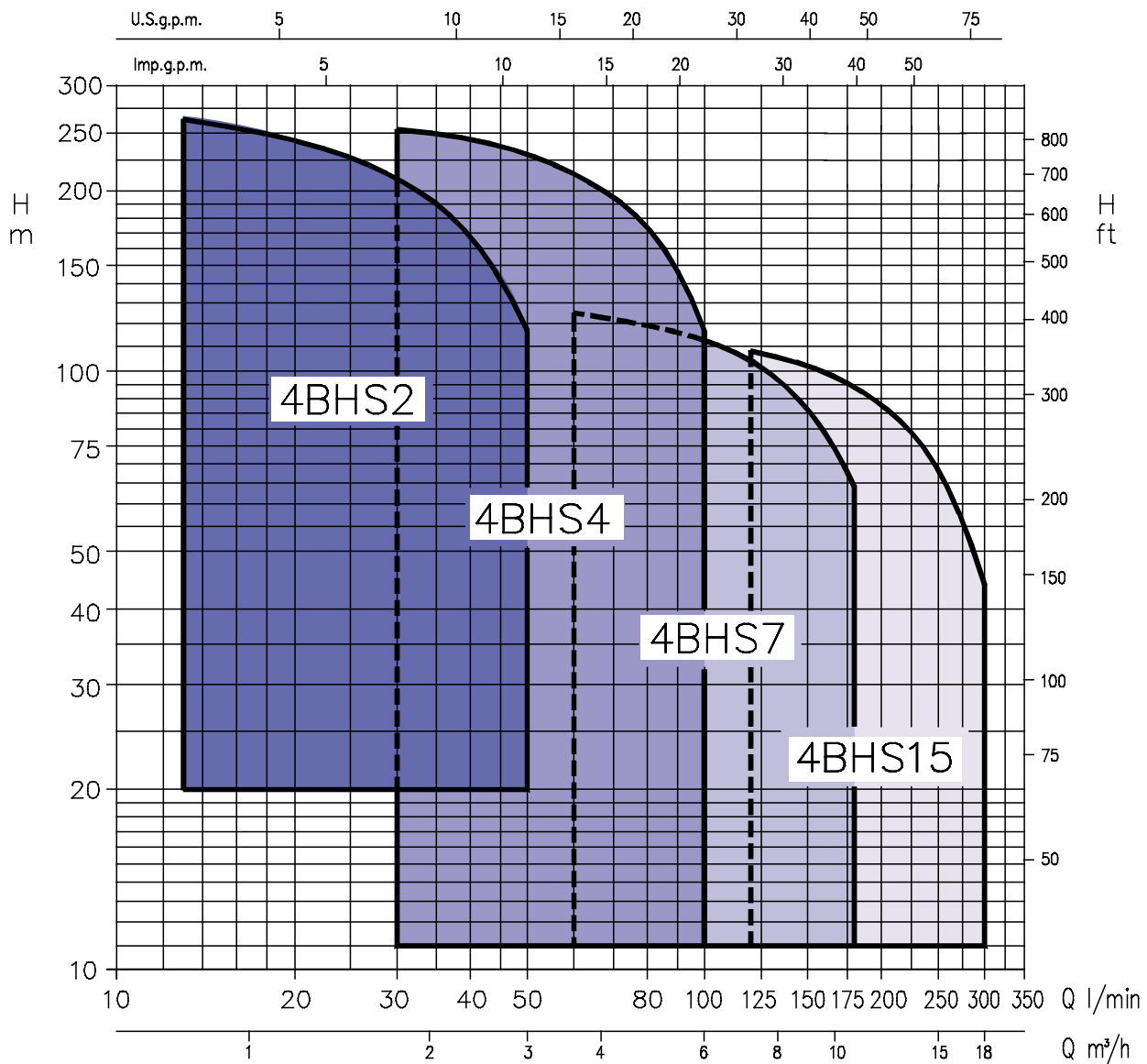
### PERFORMANCE TABLE

Pump type Single-phase 220V 50Hz	kW	Capacitor			Absorbed Current (A)	
		μF	V <sub>c</sub>		Single-phase 220V	
		W	O		W	O
4BHS2 13/5M	0,55	20	25	450	4,9	4,5
4BHS2 18/7M	0,75	30	35	450	5,6	5,8
4BHS2 27/11M	1,1	40	40	450	9,1	7,8
4BHS2 36/15M	1,5	60	60	450	11,2	10,6
4BHS2 44/22M	2,2	80	80	450	15,8	14,9
4BHS2 51/22M	2,2	80	80	450	15,8	14,9
4BHS4 7/5M	0,55	20	25	450	4,9	4,5
4BHS4 10/7M	0,75	30	35	450	5,6	5,8
4BHS4 15/11M	1,1	40	40	450	9,1	7,8
4BHS4 20/15M	1,5	60	60	450	11,2	10,6
4BHS4 24/22M	2,2	80	80	450	15,8	14,9
4BHS4 29/22M	2,2	80	80	450	15,8	14,9
-	-	-	-	-	-	-
-	-	-	-	-	-	-
4BHS7 5/7M	0,75	30	35	450	5,6	5,8
4BHS7 7/11M	1,1	40	40	450	9,1	7,8
4BHS7 10/15M	1,5	60	60	450	11,2	10,6
4BHS7 12/22M	2,2	80	80	450	15,8	14,9
4BHS7 14/22M	2,2	80	80	450	15,8	14,9
-	-	-	-	-	-	-
-	-	-	-	-	-	-
4BHS15 7/15M	1,5	60	60	450	11,2	10,6
4BHS15 10/22M	2,2	80	80	450	15,8	14,9
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

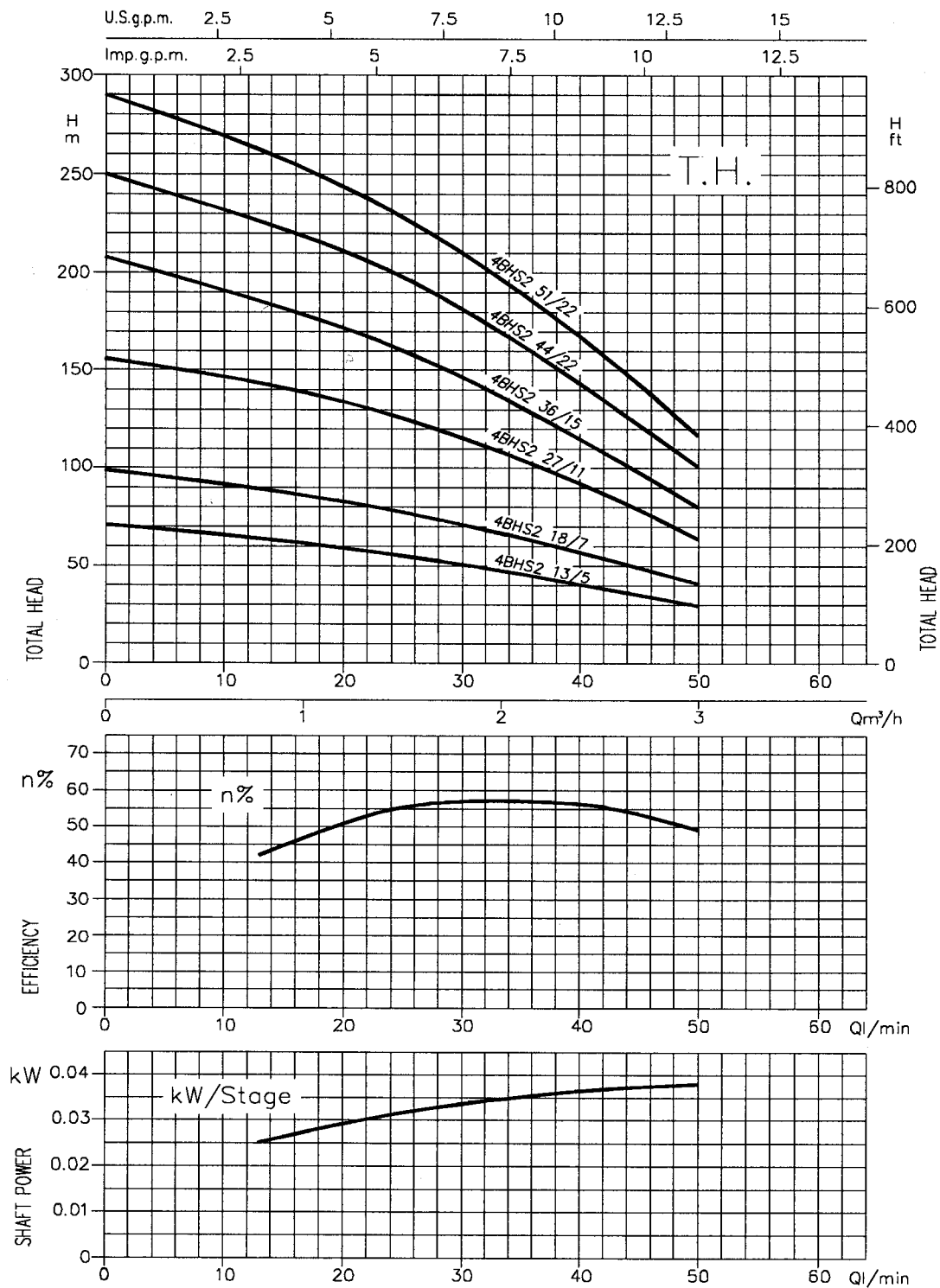
Pump type Three-phase 380V 50Hz	kW	Absorbed Current (A)	
		Three-phase 380V	
		W	O
4BHS2 13/5	0,55	2,0	1,75
4BHS2 18/7	0,75	2,5	2,4
4BHS2 27/11	1,1	3,4	3,4
4BHS2 36/15	1,5	4,5	4,4
4BHS2 44/22	2,2	6,1	6,0
4BHS2 51/22	2,2	6,1	6,0
4BHS4 7/5	0,55	2,0	1,75
4BHS4 10/7	0,75	2,5	2,4
4BHS4 15/11	1,1	3,4	3,4
4BHS4 20/15	1,5	4,5	4,4
4BHS4 24/22	2,2	6,1	6,0
4BHS4 29/22	2,2	6,1	6,0
4BHS4 36/30	3,0	8,1	8,5
4BHS4 48/40	4,0	10,6	10,8
4BHS7 5/7	0,75	2,5	2,4
4BHS7 7/11	1,1	3,4	3,4
4BHS7 10/15	1,5	4,5	4,4
4BHS7 12/22	2,2	6,1	6,0
4BHS7 14/22	2,2	6,1	6,0
4BHS7 18/30	3,0	8,1	8,5
4BHS7 23/40	4,0	10,6	10,8
4BHS15 7/15	1,5	4,5	4,4
4BHS15 10/22	2,2	6,1	6,0
4BHS15 13/30	3,0	8,1	8,5
4BHS15 17/40	4,0	10,6	10,8
4BHS15 25/55	5,5	14,5	14,5

Pump type 4BHS	kW	l/min m³/h	Q=Capacity											
			13	30	40	50	60	100	120	180	250	300		
			0,8	1,8	2,4	3,0	3,6	6	7,2	10,8	15	18		
H=Total head														
4BHS2 13/5	0,55		65	52	41	29,5	-	-	-	-	-	-	-	-
4BHS2 18/7	0,75		90	71	58	41	-	-	-	-	-	-	-	-
4BHS2 27/11	1,1		143	114	92	64	-	-	-	-	-	-	-	-
4BHS2 36/15	1,5		186	145	116	80	-	-	-	-	-	-	-	-
4BHS2 44/22	2,2		227	178,7	141	97	-	-	-	-	-	-	-	-
4BHS2 51/22	2,2		275	222,8	181	125	-	-	-	-	-	-	-	-
4BHS4 7/5	0,55		-	37	36	34	31,5	18,5	-	-	-	-	-	-
4BHS4 10/7	0,75		-	53	52,5	48	45	26	-	-	-	-	-	-
4BHS4 15/11	1,1		-	79	76	72	66,5	39	-	-	-	-	-	-
4BHS4 20/15	1,5		-	105	102	96	89	50	-	-	-	-	-	-
4BHS4 24/22	2,2		-	126	122	115	106	61	-	-	-	-	-	-
4BHS4 29/22	2,2		-	154	150	141,5	132	76	-	-	-	-	-	-
4BHS4 36/30	3,0		-	189	178	170	156,5	85	-	-	-	-	-	-
4BHS4 48/40	4,0		-	253	241,1	227	210	109,4	-	-	-	-	-	-
4BHS7 5/7	0,75		-	-	-	-	28	25	23	13,5	-	-	-	-
4BHS7 7/11	1,1		-	-	-	-	38,5	35,5	32,5	20	-	-	-	-
4BHS7 10/15	1,5		-	-	-	-	54	49,5	45	27	-	-	-	-
4BHS7 12/22	2,2		-	-	-	-	65	59	54	33	-	-	-	-
4BHS7 14/22	2,2		-	-	-	-	77	70	64	41	-	-	-	-
4BHS7 18/30	3,0		-	-	-	-	100	90	82,5	51	-	-	-	-
4BHS7 23/40	4,0		-	-	-	-	125	114	104	64	-	-	-	-
4BHS15 7/15	1,5		-	-	-	-	-	-	30	27	18,5	12	-	-
4BHS15 10/22	2,2		-	-	-	-	-	-	43,5	38	28,5	17,5	-	-
4BHS15 13/30	3,0		-	-	-	-	-	-	55	47,5	36,1	25	-	-
4BHS15 17/40	4,0		-	-	-	-	-	-	72	63	45	29	-	-
4BHS15 25/55	5,5		-	-	-	-	-	-	108	95	68,2	44	-	-

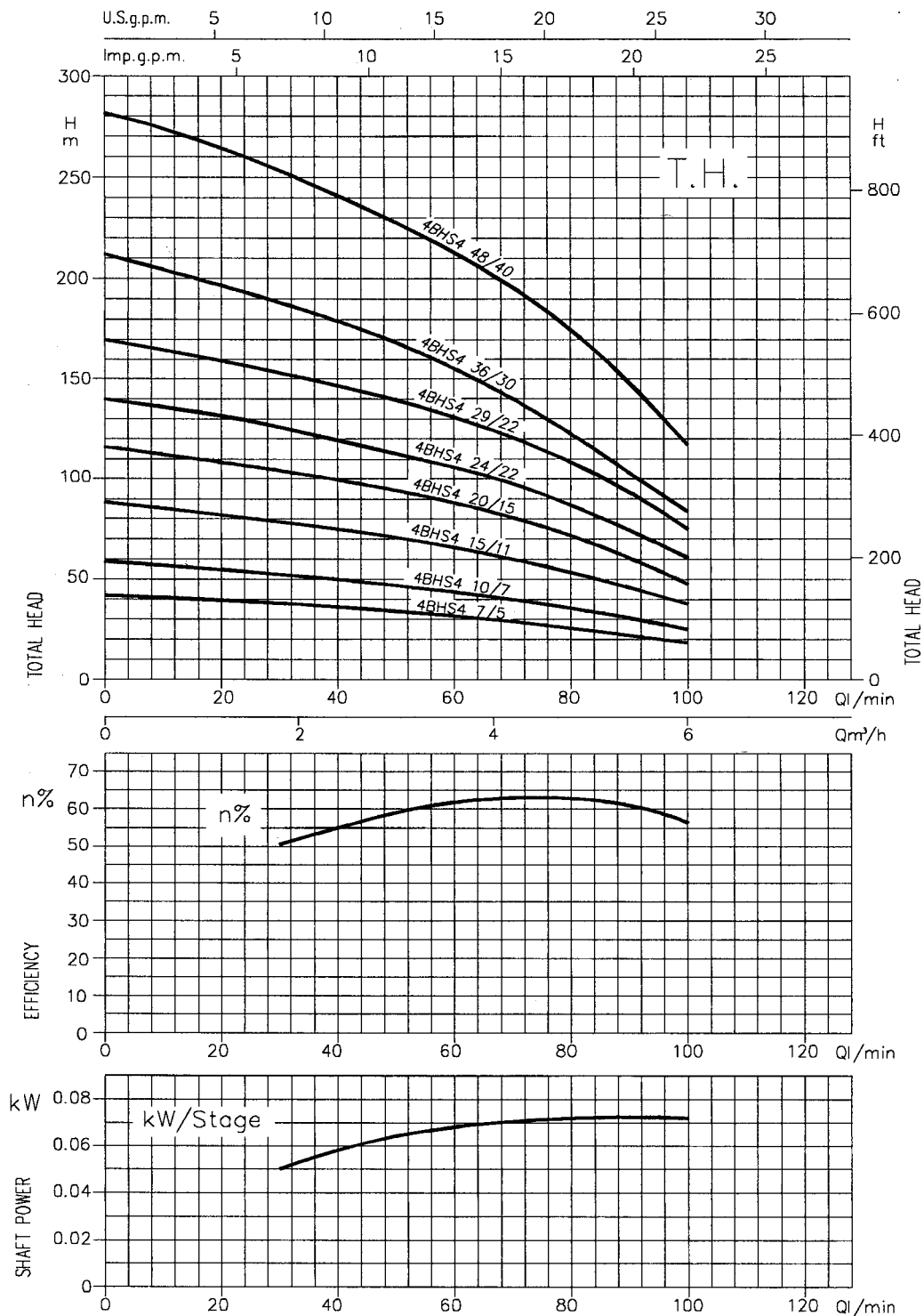
## PERFORMANCE CHART (according to ISO 9906 Annex A)



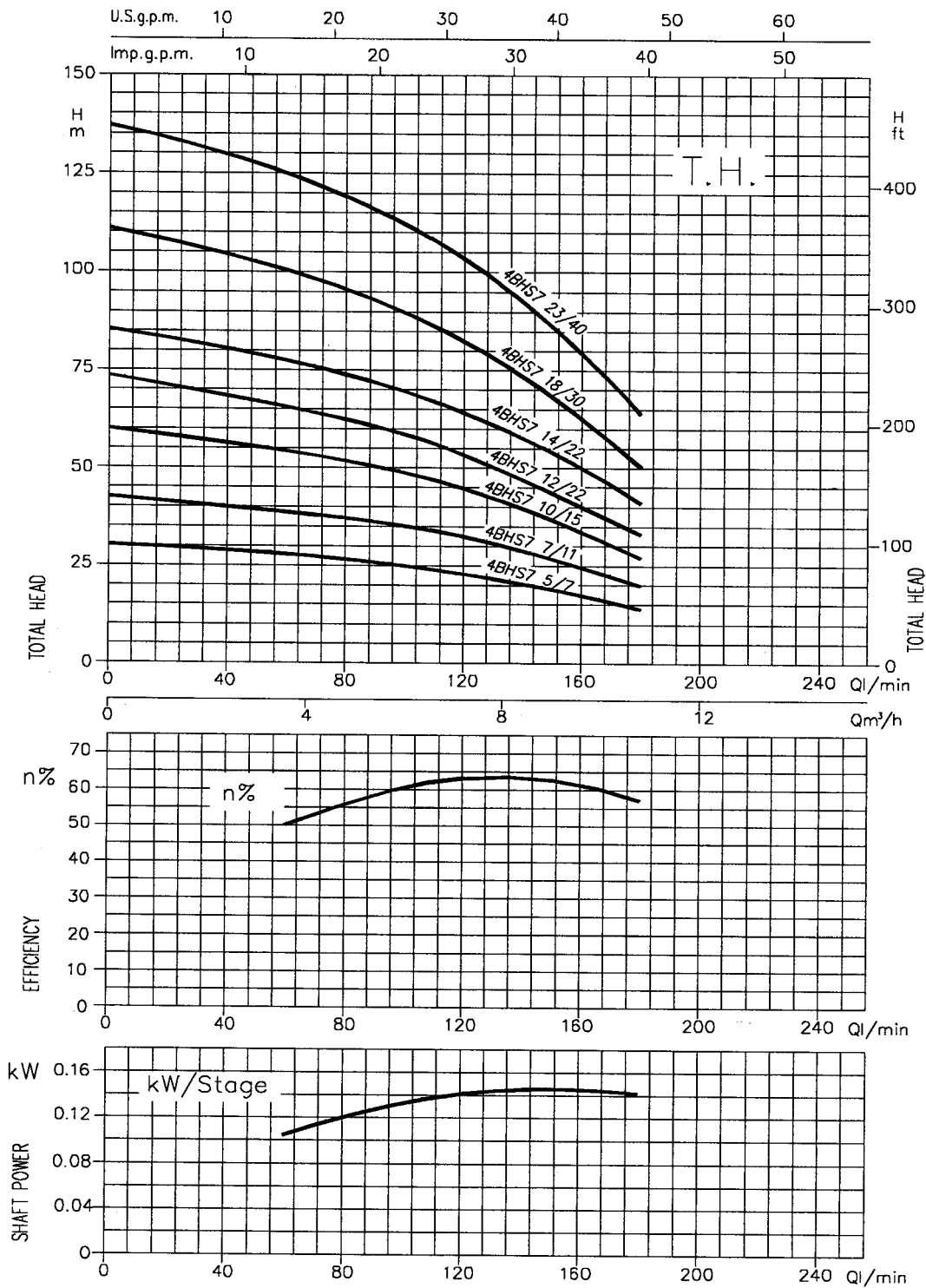
### PERFORMANCE CURVES 4BHS 2 series (according to ISO 9906 Annex A)



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

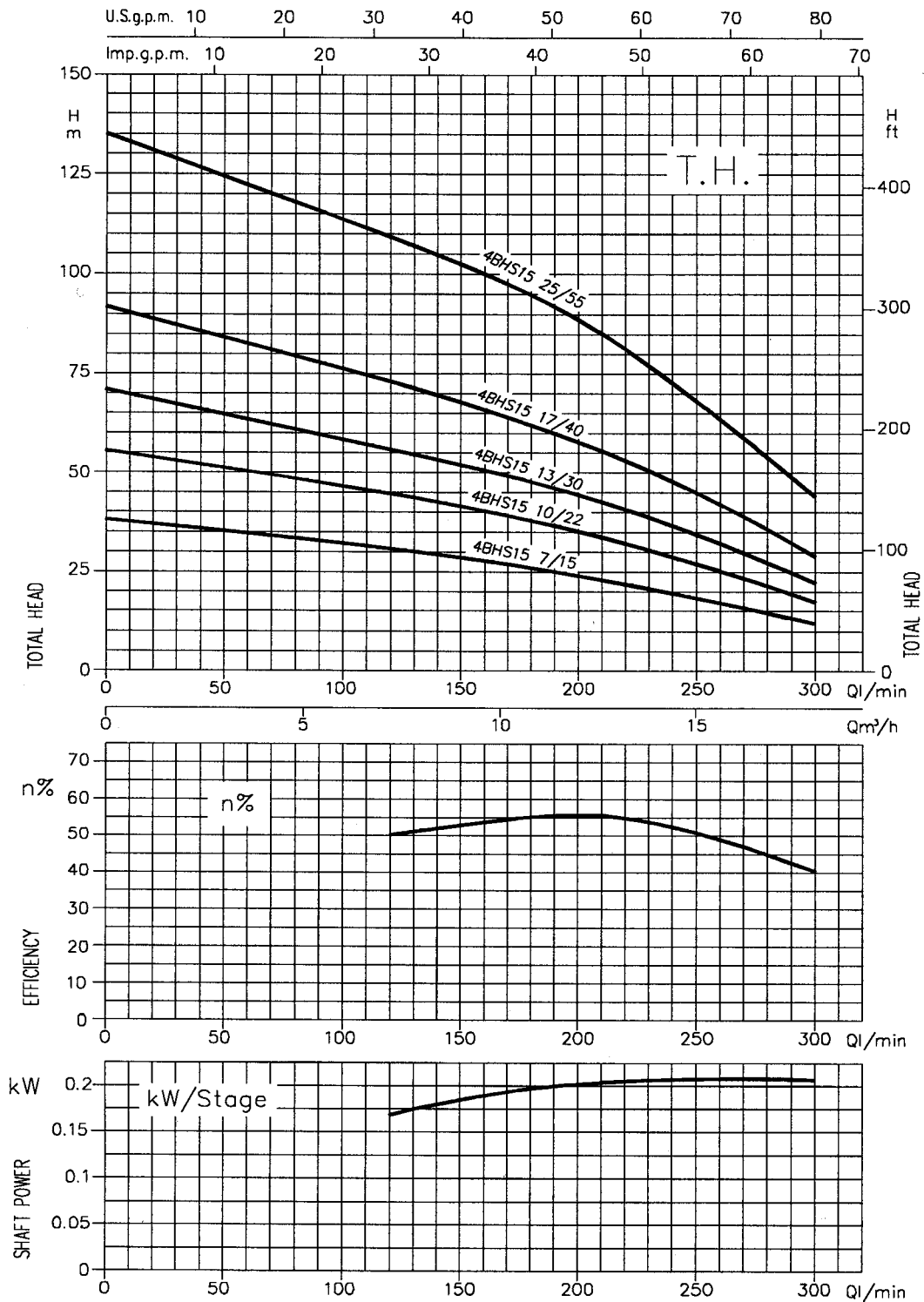


### PERFORMANCE CURVES 4BHS 7 series (according to ISO 9906 Annex A)





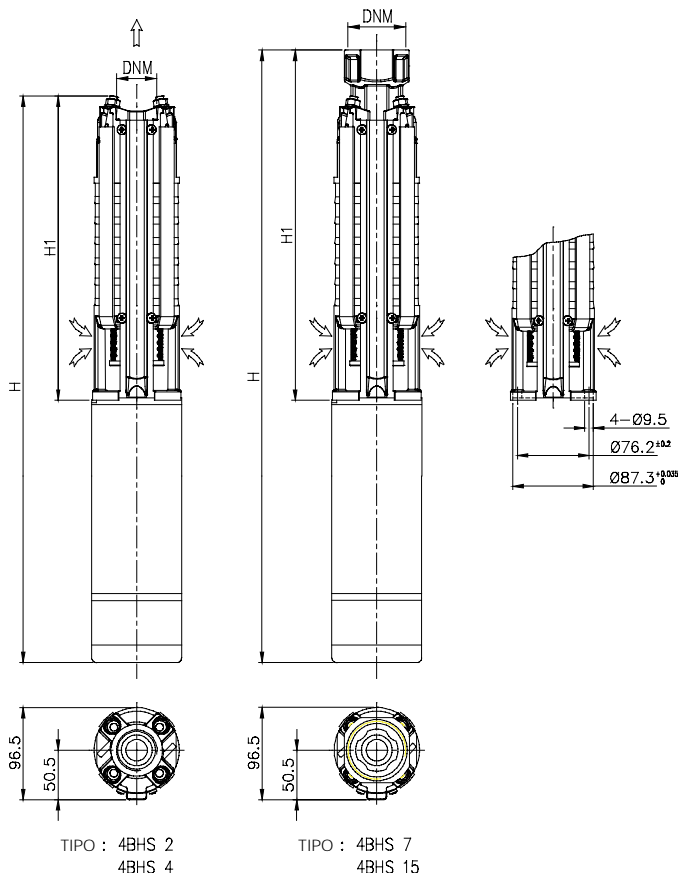
### PERFORMANCE CURVES 4BHS 15 series (according to ISO 9906 Annex A)



### DIMENSIONAL TABLE

Pump type motore O		Dimensions (mm)				Weight kg		
Single-phase	Three-phase	H		H1	DNM			
		1~	3~			1~	3~	solo pompa
4BHS2 13/5M	4BHS2 13/5	802	802	480,5	G1 1/4	13,6	13	6
4BHS2 18/7M	4BHS2 18/7	953	928	606,5	G1 1/4	16,9	15,8	8,2
4BHS2 27/11M	4BHS2 27/11	1177	1142	795,5	G1 1/4	21,4	19,8	11,1
4BHS2 36/15M	4BHS2 36/15	1422	1387	1005,5	G1 1/4	25,8	24,2	13,8
4BHS2 44/22M	4BHS2 44/22	1711	1661	1194,5	G1 1/4	32	30,7	16,5
4BHS2 51/22M	4BHS2 51/22	1858	1808	1341,5	G1 1/4	34,8	33,5	19,3
4BHS4 7/5M	4BHS4 7/5	676	676	354,5	G1 1/2	12,1	11,5	4,5
4BHS4 10/7M	4BHS4 10/7	764	739	417,5	G1 1/2	14,5	13,4	5,8
4BHS4 15/11M	4BHS4 15/11	904	869	522,5	G1 1/2	18	16,4	7,7
4BHS4 20/15M	4BHS4 20/15	1065	1030	648,5	G1 1/2	21,4	19,8	9,4
4BHS4 24/22M	4BHS4 24/22	1249	1199	732,5	G1 1/2	26,7	25,4	11,2
4BHS4 29/22M	4BHS4 29/22	1375	1325	858,5	G1 1/2	28,3	27	12,8
-	4BHS4 36/30	-	1582	1005,5	G1 1/2	-	37	15,5
-	4BHS4 48/40	-	1855	1278,5	G1 1/2	-	42,2	20,2
4BHS7 5/7M	4BHS7 5/7	770	745	423,5	G2	13,2	12,1	4,5
4BHS7 7/11M	4BHS7 7/11	868	833	486,5	G2	15,5	13,9	5,2
4BHS7 10/15M	4BHS7 10/15	997,5	962,5	581	G2	18,3	16,7	6,3
4BHS7 12/22M	4BHS7 12/22	1192	1142	675,5	G2	22,5	21,2	7
4BHS7 14/22M	4BHS7 14/22	1255	1205	738,5	G2	23,3	22	7,8
-	4BHS7 18/30	-	1441	864,5	G2	-	31	9,5
-	4BHS7 23/40	-	1630	1053,5	G2	-	33,8	11,8
4BHS15 7/15M	4BHS15 7/15	987	952	570,5	G2	17,4	15,8	5,4
4BHS15 10/22M	4BHS15 10/22	1255	1205	738,5	G2	22,3	21	6,8
-	4BHS15 13/30	-	1441	864,5	G2	-	29,7	8,2
-	4BHS15 17/40	-	1651	1074,5	G2	-	32,5	10,5
-	4BHS15 25/55	-	2099	1452,5	G2	-	36,4	14

Pump type motore W		Dimensions (mm)				Weight kg		
Single-phase	Three-phase	H		H1	DNM			
		1~	3~			1~	3~	solo pompa
4BHS2 13/5M	4BHS2 13/5	773,5	753,5	480,5	G1 1/4	14,5	13,8	6
4BHS2 18/7M	4BHS2 18/7	929,5	899,5	606,5	G1 1/4	18,2	16,8	8,2
4BHS2 27/11M	4BHS2 27/11	1152,5	1118,5	795,5	G1 1/4	22,9	20,6	11,1
4BHS2 36/15M	4BHS2 36/15	1413,5	1362,5	1005,5	G1 1/4	27,5	24,9	13,8
4BHS2 44/22M	4BHS2 44/22	1677,5	1602,5	1194,5	G1 1/4	32,9	30,3	16,5
4BHS2 51/22M	4BHS2 51/22	1824,5	1749,5	1341,5	G1 1/4	35,7	33,1	19,3
4BHS4 7/5M	4BHS4 7/5	647,5	627,5	354,5	G1 1/2	13	12,3	4,5
4BHS4 10/7M	4BHS4 10/7	740,5	710,5	417,5	G1 1/2	15,8	14,4	5,8
4BHS4 15/11M	4BHS4 15/11	879,5	845,5	522,5	G1 1/2	19,5	17,2	7,7
4BHS4 20/15M	4BHS4 20/15	1056,5	1005,5	648,5	G1 1/2	23,1	20,5	9,4
4BHS4 24/22M	4BHS4 24/22	1215,5	1140,5	732,5	G1 1/2	27,6	25	11,2
4BHS4 29/22M	4BHS4 29/22	1341,5	1266,5	858,5	G1 1/2	29,2	26,6	12,8
-	4BHS4 36/30	-	1518	1005,5	G1 1/2	-	32,8	15,5
-	4BHS4 48/40	-	1831	1278,5	G1 1/2	-	41,4	20,2
4BHS7 5/7M	4BHS7 5/7	746,5	716,5	423,5	G2	14,5	13,1	4,5
4BHS7 7/11M	4BHS7 7/11	843,5	809,5	486,5	G2	17	14,7	5,2
4BHS7 10/15M	4BHS7 10/15	989	938	581	G2	20	17,4	6,3
4BHS7 12/22M	4BHS7 12/22	1158,5	1083,5	675,5	G2	23,4	20,8	7
4BHS7 14/22M	4BHS7 14/22	1221,5	1146,5	738,5	G2	24,2	21,6	7,8
-	4BHS7 18/30	-	1377	864,5	G2	-	26,8	9,5
-	4BHS7 23/40	-	1606	1053,5	G2	-	33	11,8
4BHS15 7/15M	4BHS15 7/15	978,5	927,5	570,5	G2	19,1	16,5	5,4
4BHS15 10/22M	4BHS15 10/22	1221,5	1146,5	738,5	G2	23,2	20,6	6,8
-	4BHS15 13/30	-	1377	864,5	G2	-	25,5	8,2
-	4BHS15 17/40	-	1627	1074,5	G2	-	31,7	10,5
-	4BHS15 25/55	-	2125	1452,5	G2	-	40,2	14



### SELECTION OF THE POWER CABLE

Example : Motor 1.1 kW - 220 V single phase - cable length 39 m. - 4x2.5 mm<sup>2</sup>

Motor	kW	HP	Cable type and length maximum limit							
			4x1	4x1.5	4x2.5	4x4	4x6	4x10	4x16	
Single phase 230 V - 50 Hz	0.37	0.5	50	75	125	-	-	-	-	
	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	-	
Three phase 400 V - 50 Hz	1.5	2	-	23	38	63	92	154	246	
	2.2	3	-	-	28	45	67	112	180	
	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	-	
Three phase 230 V - 50 Hz	3.7	5.5	31	46	77	124	186	310	496	
	5.5	7.5	128	33	56	90	135	225	360	
	0.55	0.75	60	90	150	240	-	-	-	
	0.75	1	47	71	118	190	-	-	-	
	1.1	1.5	35	52	87	140	210	-	-	
	1.5	2	26	40	66	106	160	266	-	
	2.2	3	-	29	48	76	115	191	306	
	3	4	-	-	37	60	90	150	240	
	3.7	5.5	-	-	27	44	66	110	176	
	5.5	7.5	-	-	-	32	48	80		

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. There is no need for a starter box as the capacitors are installed in the pumping unit allowing a neater installation.



### SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses
- 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 416
- Upper mechanical seal in carbon/ceramic/NBR, lower mechanical seal in SiC/Carbon/NBR

### TECHNICAL DATA

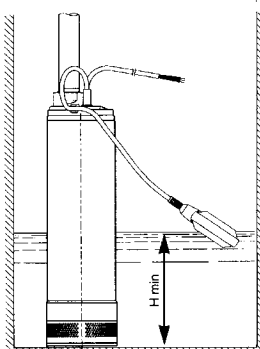
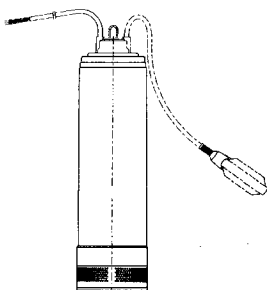
- Asincronous 2 poles motor cooled by the pumped liquid
- Insulation class F
- Protection degree IP68
- 1~230V +- 10% 50Hz, 3~400V +-10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase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

### DIMENSIONAL TABLE

Pump type		(mm)	Weight	
		H	kg	
Single-phase	Three-phase		1~	3~
IDROGO M 40/06*	-	513	13	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	18

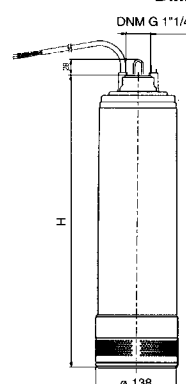
\* Supplied with 5 m cable lenght type HØ7RN-F

Single phase version with float switch (upon request)

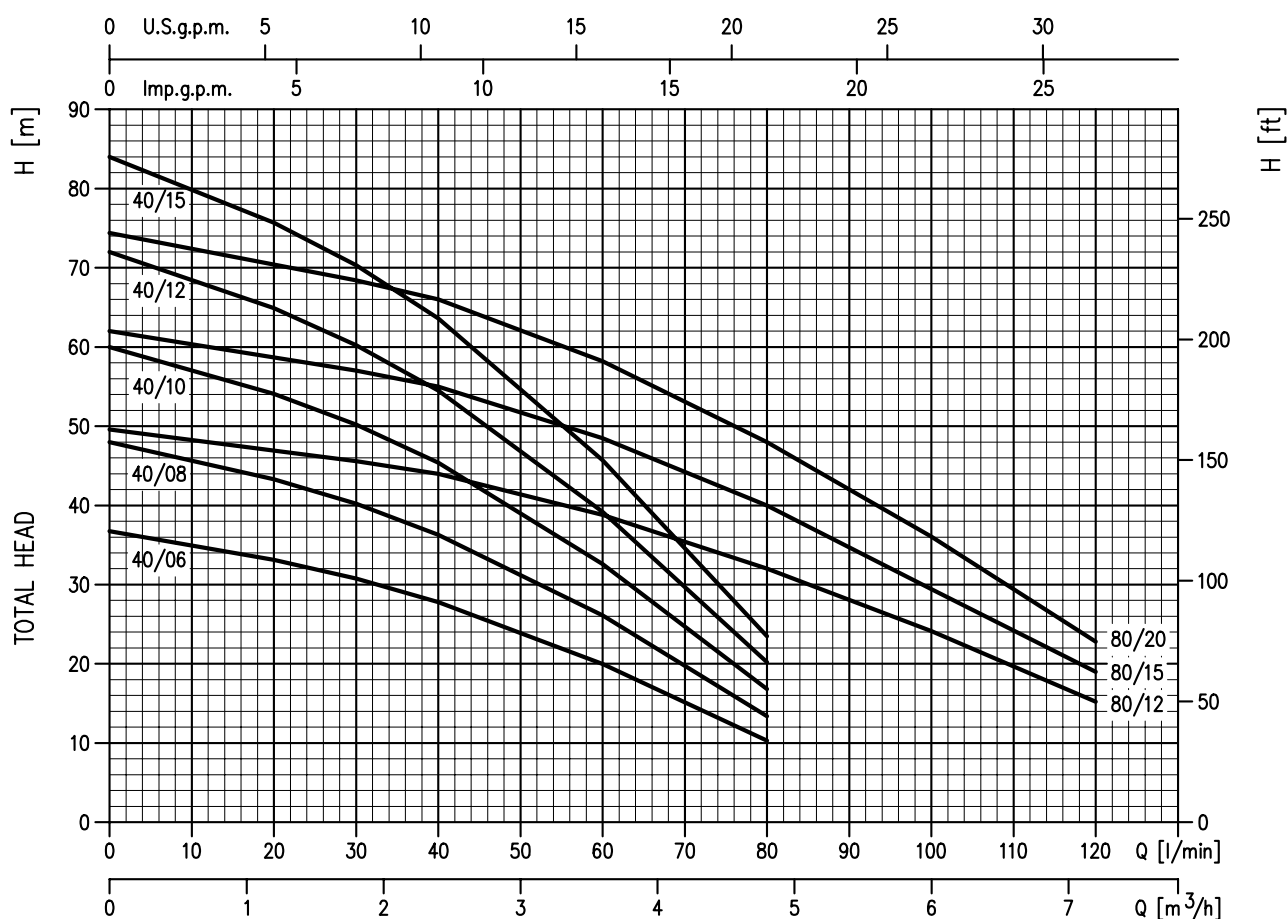


When using the pump in a pit, the recommended minimum size of the pit is 600 mm x 600 mm x 600 mm to allow unrestricted movement of the automatic float switch

Dimensions



### 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	V <sub>c</sub>	1~	3~ 400V		l/min m³/h	20	30	40	60	80	100	120
								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" submersible pumps for water supply of domestic, agricultural and industrial use, pressure boosting units and irrigation systems.*

*For more details, please call our Sale Dept.*



### **SPECIFICATIONS**

- Maximum liquid temperature: 30°C
- Maximum sand content: 40 ppm

### **MATERIALS**

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

### **TECHNICAL DATA**

- 2 poles motor
- Outlet: 2"½ SF6R10/13 and SF6S25 series  
3" SF6S32/42 series

Pump type SF6	l/min m³/h	Q=Capacity											Length mm.	Weight kg
		0	100	200	250	300	400	550	700	850	1000			
		0	6	12	15	18	24	33	42	51	60			
H=Total head														
R10-5/2.2	79	68	45	26	-	-	-	-	-	-		583	11,5	
R10-6/3	95	81	54	31	-	-	-	-	-	-		621	12	
R10-7/3	111	95	63	36	-	-	-	-	-	-		659	12,5	
R10-8/4	126	108	72	42	-	-	-	-	-	-		697	13	
R10-9/4	142	122	81	47	-	-	-	-	-	-		735	14	
R10-12/5.5	190	162	108	62	-	-	-	-	-	-		848	16	
R10-15/7.5	237	203	135	78	-	-	-	-	-	-		962	18	
R10-18/9.2	284	243	162	94	-	-	-	-	-	-		1076	20	
R10-21/9.2	332	284	189	109	-	-	-	-	-	-		1190	22	
R13-4/2.2	62	60	49	40	28	-	-	-	-	-		545	11	
R13-5/3	78	75	62	50	35	-	-	-	-	-		583	11,5	
R13-6/4	93	90	74	60	42	-	-	-	-	-		621	12	
R13-7/5.5	109	105	86	70	49	-	-	-	-	-		659	12,5	
R13-8/5.5	124	120	98	80	56	-	-	-	-	-		697	13	
R13-9/5.5	140	135	111	90	63	-	-	-	-	-		735	14	
R13-12/7.5	186	180	148	120	84	-	-	-	-	-		848	16	
R13-15/9.2	233	225	185	150	105	-	-	-	-	-		962	18	
R13-18/11	279	270	221	180	126	-	-	-	-	-		1076	20	
R13-21/13	326	315	258	210	147	-	-	-	-	-		1190	22	
R13-24/15	372	360	295	240	168	-	-	-	-	-		1304	24	
S25-3/3	46	-	40	38	35	29	16	-	-	-		564	11	
S25-4/4	61	-	53	50	47	38	21	-	-	-		621	12	
S25-6/5.5	92	-	80	76	70	58	31	-	-	-		735	13,5	
S25-8/7.5	122	-	106	101	94	77	42	-	-	-		848	16	
S25-10/9.2	153	-	133	126	117	96	52	-	-	-		962	17,5	
S25-12/11	184	-	159	151	140	115	62	-	-	-		1076	19,5	
S25-14/15	230	-	199	189	176	144	78	-	-	-		1110	21	
S25-16/15	245	-	212	202	187	154	83	-	-	-		1304	23	
S25-20/18.5	306	-	265	252	234	192	104	-	-	-		1584	27,5	
S25-24/22	367	-	318	302	281	230	125	-	-	-		1810	31	
S32-2/3	32	-	-	-	29	26	20	13	-	-		513	10	
S32-3/4	49	-	-	-	43	39	31	19	-	-		573	10,5	
S32-4/5.5	65	-	-	-	57	52	41	26	-	-		632	11,5	
S32-5/7.5	81	-	-	-	71	65	51	32	-	-		692	13	
S32-6/9.2	97	-	-	-	86	78	61	39	-	-		752	14,5	
S32-8/11	130	-	-	-	114	104	82	51	-	-		872	15,5	
S32-9/15	146	-	-	-	129	118	92	58	-	-		932	16,5	
S32-10/15	162	-	-	-	143	131	102	64	-	-		992	17,5	
S32-12/18.5	195	-	-	-	171	157	122	77	-	-		1112	19,5	
S32-15/22	243	-	-	-	214	196	153	96	-	-		1292	22	
S32-18/26	292	-	-	-	257	235	184	116	-	-		1524	26	
S32-20/30	324	-	-	-	286	261	204	129	-	-		1644	28	
S42-2/4	26	-	-	-	-	22	18	15	12	8		513	10	
S42-3/5.5	39	-	-	-	-	32	28	23	18	12		573	10,5	
S42-4/7.5	52	-	-	-	-	43	37	30	24	15		632	12	
S42-5/9.2	65	-	-	-	-	54	46	38	30	19		692	13	
S42-6/11	78	-	-	-	-	65	55	46	36	23		752	14,5	
S42-8/13	104	-	-	-	-	86	74	61	48	31		872	15,5	
S42-9/15	117	-	-	-	-	97	83	68	54	35		932	16,5	
S42-10/18.5	130	-	-	-	-	108	92	76	60	39		992	17,5	
S42-12/22	156	-	-	-	-	130	110	91	72	46		1112	19,5	
S42-15/26	195	-	-	-	-	162	138	114	90	58		1292	22	
S42-18/30	234	-	-	-	-	194	166	137	108	69		1524	26	

*6" deep-well pumps 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 6BHS can be fitted to any NEMA standard motor.*



### SPECIFICATIONS

- Maximum immersion: 100 m (oil motor)  
350 m (water motor)
- Maximum liquid temperature: 30°C

### MATERIALS

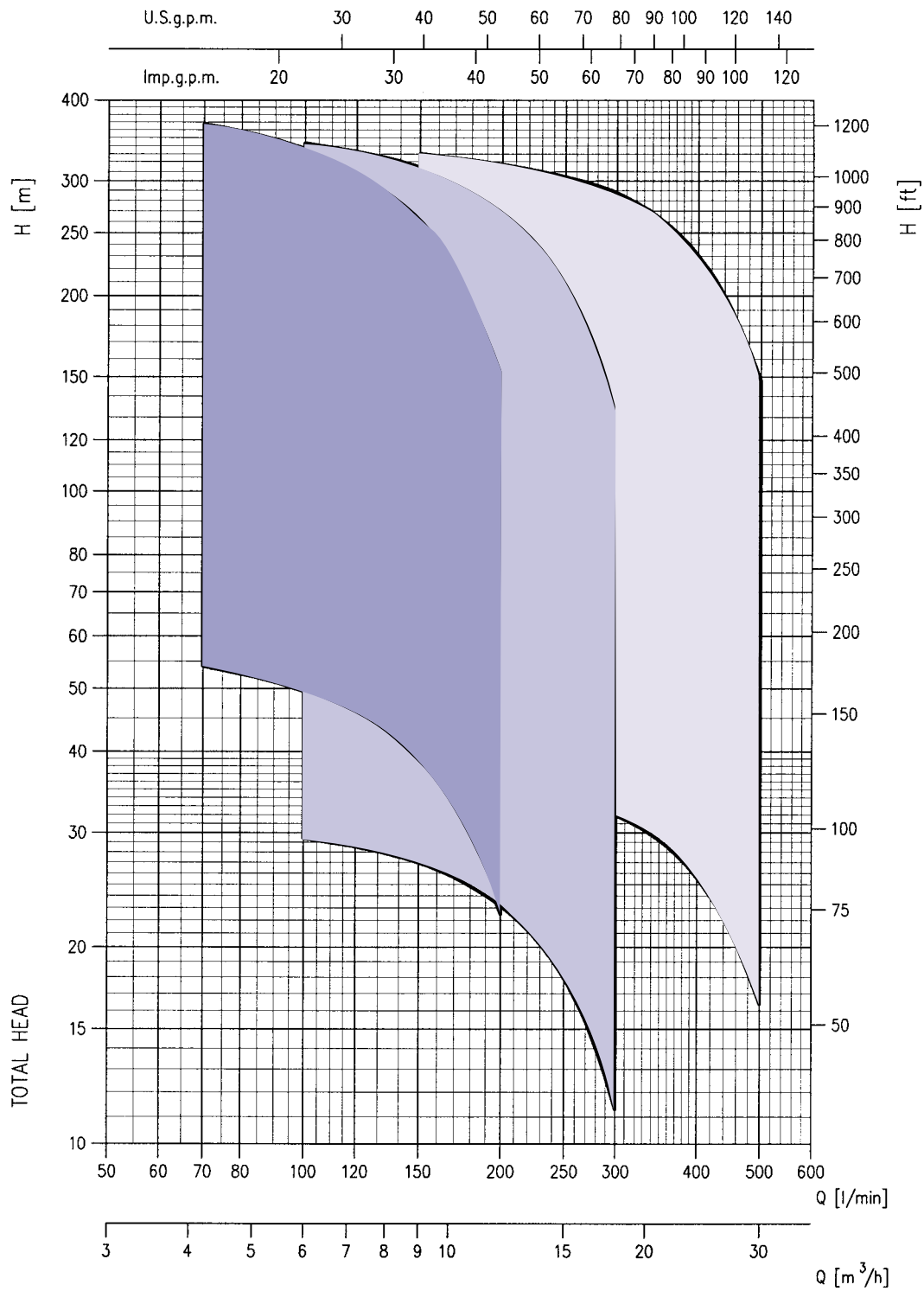
- Bracket, suction and discharge ports, coupling, impeller, diffuser, diffuser cover, valve, tie-rod and cable guard in AISI 304
- Liner ring in EPDM/AISI 304
- Shaft in AISI 316

### TECHNICAL DATA

- 2 poles motor, water filled (W version) or oil filled (O version)
- Maximum startings/hour: 25 (O version)  
20 (W version)
- Insulation class F
- Protection degree IP58
- 3~ 380/400V (O version)  
400V, +6% -10%, 50 Hz (W version)



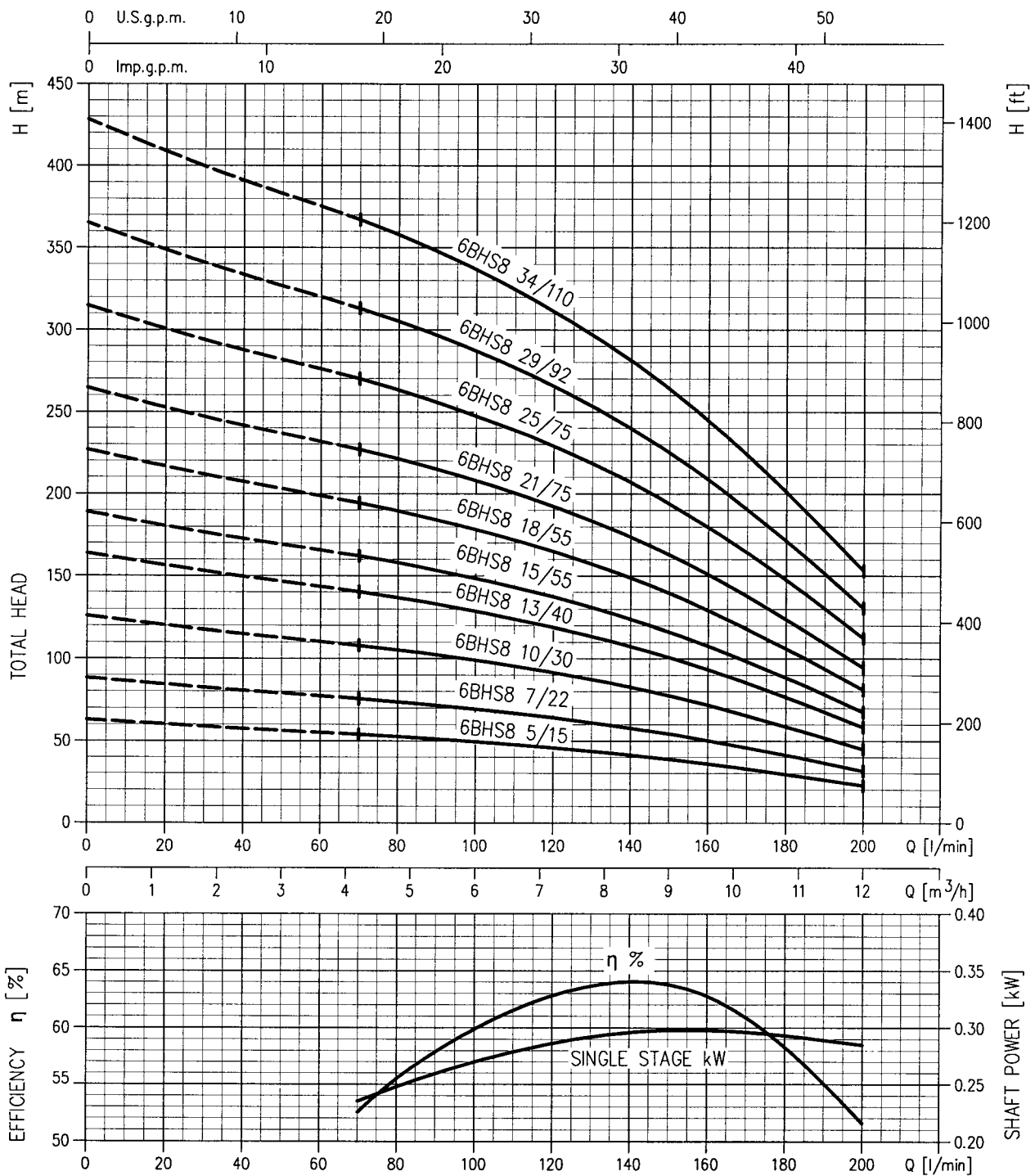
### PERFORMANCE CURVES (according to ISO 9906 Annex A)



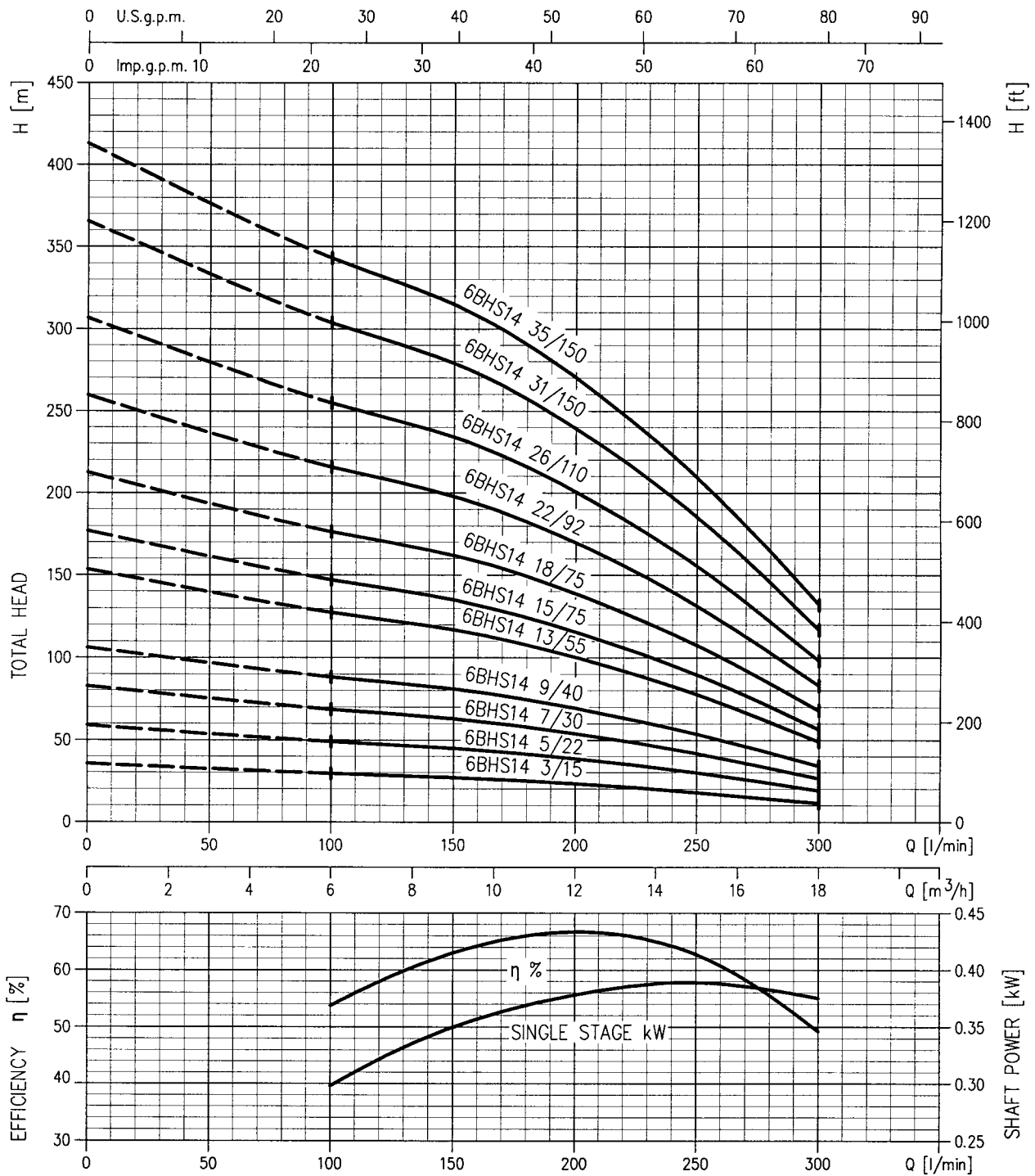
## PERFORMANCE TABLE

Pump type 6BHS	Motor size	kW	HP	Q = Capacity									
				l/min.	70	100	150	200	250	300	375	450	500
				m³/h	4,20	6,0	9,0	12,0	15,0	18,0	22,5	27,0	30,0
H = Total head													
64BHS8 5	4"	1,5	2		54	49,5	39	22,5	-	-	-	-	-
64BHS8 7	4"	2,2	3		75,5	69,5	54,5	31,5	-	-	-	-	-
64BHS8 10	4"	3	4		108	99	77,5	45	-	-	-	-	-
64BHS8 13	4"	4	5,5		140	129	101	58,5	-	-	-	-	-
6BHS8 13	6"	4	5,5		140	129	101	58,5	-	-	-	-	-
64BHS8 15	4"	5,5	7,5		162	149	116	67,5	-	-	-	-	-
6BHS8 15	6"	5,5	7,5		162	149	116	67,5	-	-	-	-	-
64BHS8 18	4"	5,5	7,5		194	178	140	81	-	-	-	-	-
6BHS8 18	6"	5,5	7,5		194	178	140	81	-	-	-	-	-
6BHS8 21	6"	7,5	10		227	208	163	94,5	-	-	-	-	-
6BHS8 25	6"	7,5	10		270	248	194	113	-	-	-	-	-
6BHS8 29	6"	9,2	12,5		313	287	225	131	-	-	-	-	-
6BHS8 34	6"	11	15		367	337	264	153	-	-	-	-	-
64BHS14 3	4"	1,5	2		-	29,5	27	23	18	11,5	-	-	-
64BHS14 5	4"	2,2	3		-	49	45	38,5	30	19	-	-	-
64BHS14 7	4"	3	4		-	68,5	63	54	42	26,5	-	-	-
64BHS14 9	4"	4	5,5		-	88	81	69,5	54	34	-	-	-
6BHS14 9	6"	4	5,5		-	88	81	69,5	54	34	-	-	-
64BHS14 13	4"	5,5	7,5		-	127	117	100	78	49	-	-	-
6BHS14 13	6"	5,5	7,5		-	127	117	100	78	49	-	-	-
6BHS14 15	6"	7,5	10		-	147	135	116	90	56,5	-	-	-
6BHS14 18	6"	7,5	10		-	176	162	139	108	68	-	-	-
6BHS14 22	6"	9,2	12,5		-	216	198	170	132	83	-	-	-
6BHS14 26	6"	11	15		-	255	234	201	156	98	-	-	-
6BHS14 31	6"	15	20		-	304	279	239	185	117	-	-	-
6BHS14 35	6"	15	20		-	343	315	270	209	132	-	-	-
64BHS21 4	4"	3	4		-	-	36,5	35,5	34	32	27,5	21	16,5
64BHS21 6	4"	4	5,5		-	-	55	53	51	48	41,5	32	24,5
6BHS21 6	6"	4	5,5		-	-	55	53	51	48	41,5	32	24,5
64BHS21 8	4"	5,5	7,5		-	-	73,5	71	67,5	64	55	42	33
6BHS21 8	6"	5,5	7,5		-	-	73,5	71	67,5	64	55	42	33
6BHS21 12	6"	7,5	10		-	-	110	106	102	96	83	64	49
6BHS21 14	6"	9,2	12,5		-	-	128	124	118	112	96	74	57,5
6BHS21 17	6"	11	15		-	-	156	150	144	136	117	90	69,5
6BHS21 22	6"	15	20		-	-	202	194	186	176	151	117	90
6BHS21 25	6"	15	20		-	-	229	221	212	200	172	133	103
6BHS21 29	6"	18,5	25		-	-	266	256	245	232	200	154	119
6BHS21 34	6"	22	30		-	-	312	300	288	272	234	180	139
6BHS21 36	6"	22	30		-	-	330	318	305	288	248	191	148

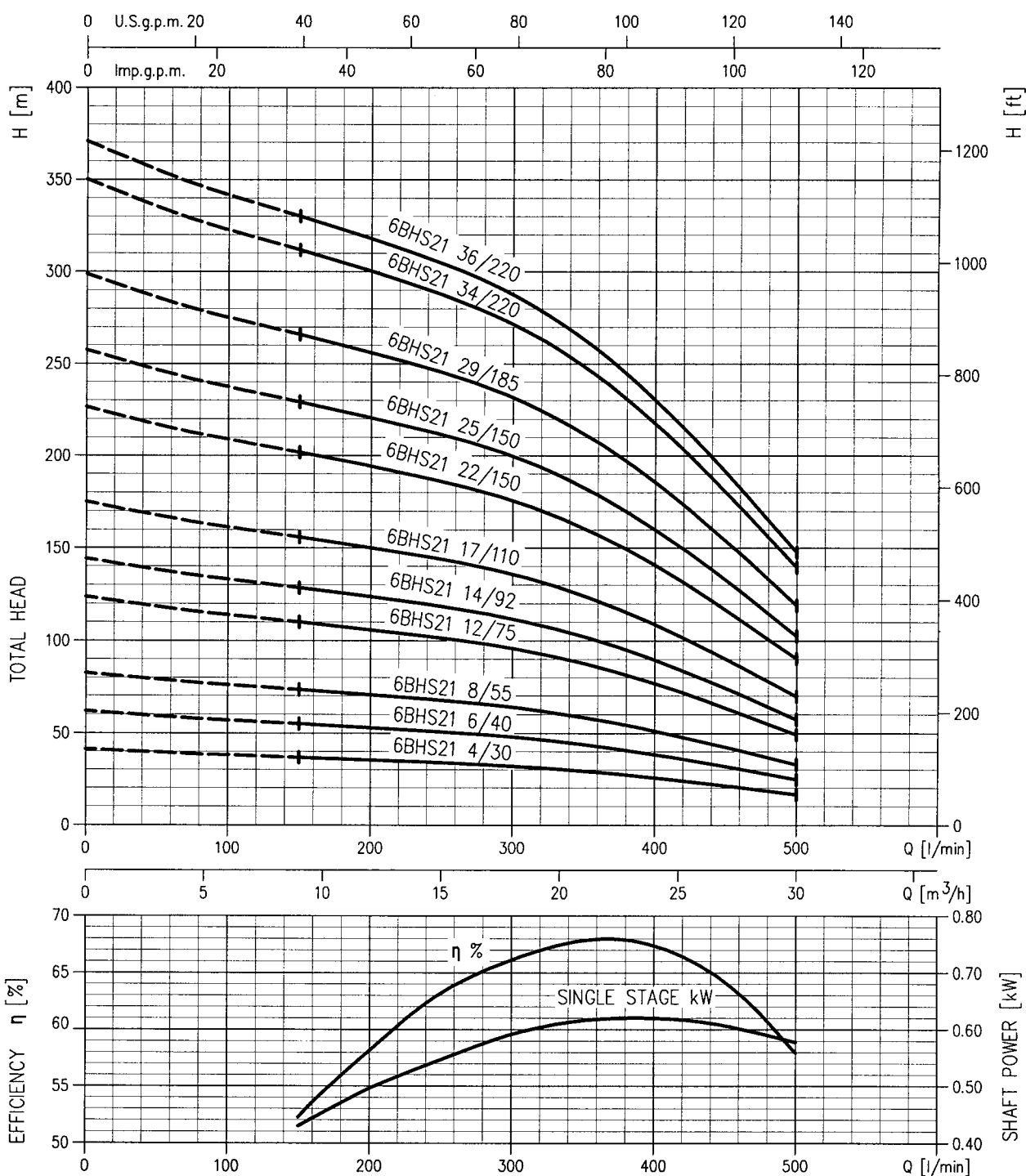
### PERFORMANCE CURVES 6BHS8 series (according to ISO 9906 Annex A)

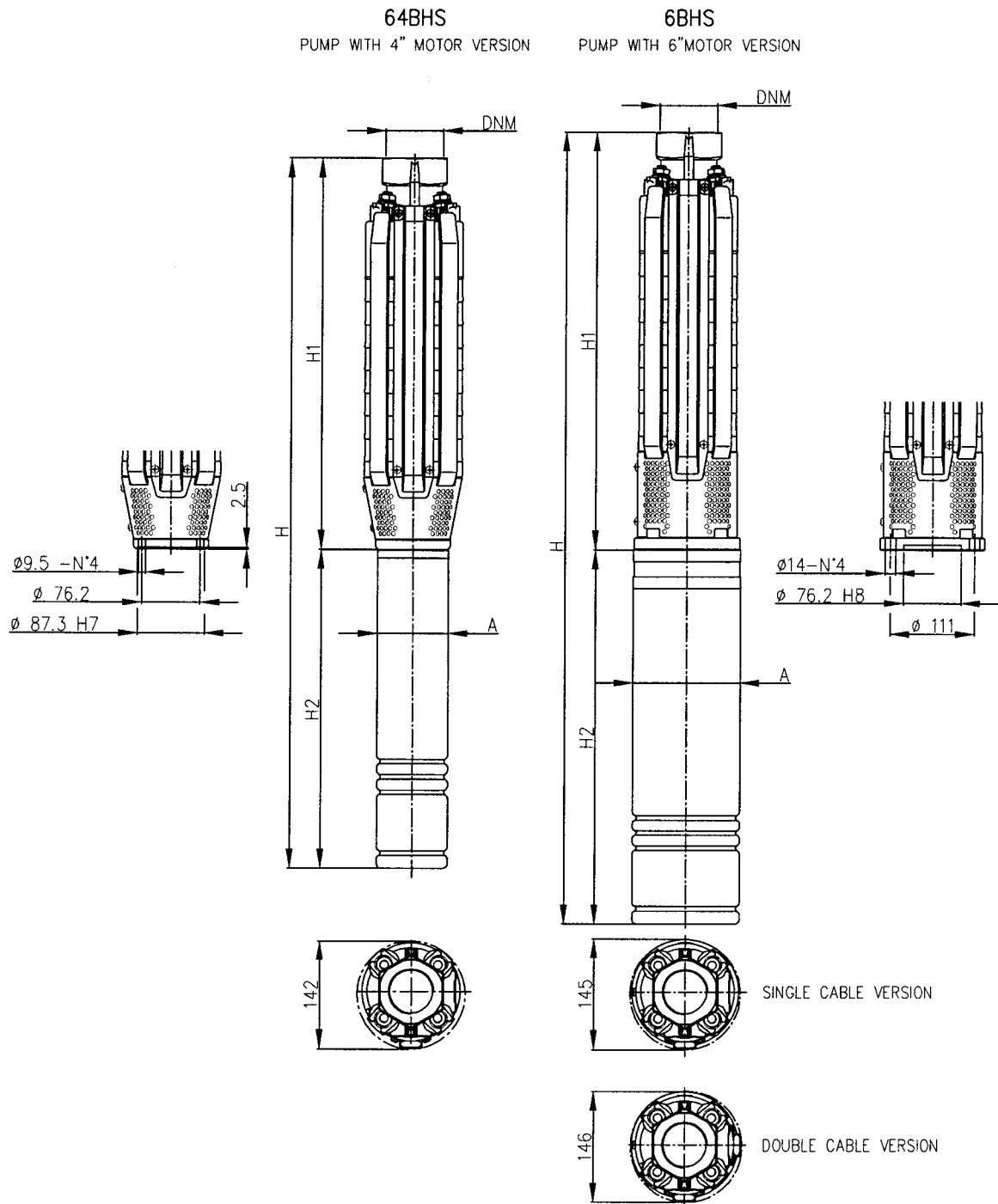


## PERFORMANCE CURVES 6BHS14 series (according to ISO 9906 Annex A)



## PERFORMANCE CURVES 6BHS21 series (according to ISO 9906 Annex A)





**DIMENSIONAL TABLE**

Pump type	Power		Pump without motor			Motor size	Pump with water motor filled		Pump with oil motor filled	
	kW	HP	DNM	H1	Weight [ kgf ]		H	Weight [ kgf ]	H	Weight [ kgf ]
64BHS8-5/15	1,5	2	G 2	454,5	12,5	4 "	779	24,5	837	23
64BHS8-7/22	2,2	3	G 2	514,5	14,5		868	27,5	932	26,5
64BHS8-10/30	3	4	G 2	604,5	17		1025	34	1182	39,5
64BHS8-13/40	4	5,5	G 2	694,5	20		1275	43,7	1272	42,5
64BHS8-15/55	5,5	7,5	G 2	754,5	21,5		1450	51	1402	45
64BHS8-18/55	5,5	7,5	G 2	844,5	24		1540	53,5	1492	47,5
6BHS8-13/40	4	5,5	G 2	729	21	6"	1311	59	1269	61
6BHS8-15/55	5,5	7,5	G 2	789	24		1404	64,5	1359	65
6BHS8-18/55	5,5	7,5	G 2	879	26,5		1494	66	1449	67,5
6BHS8-21/75	7,5	10	G 2	969	29,5		1616	73,5	1569	72
6BHS8-25/75	7,5	10	G 2	1089	33,5		1736	79	1689	77,5
6BHS8-29/92	9,2	12,5	G 2	1209	38,5		1888	85	1809	84
6BHS8-34/110	11	15	G 2	1359	45		2071	93	2059	91,5
64BHS14-3/15	1,5	2	G 2 1/2	394,5	10,5	4"	719	22,5	777	21
64BHS14-5/22	2,2	3	G 2 1/2	454,5	12		808	25,5	872	24,5
64BHS14-7/30	3	4	G 2 1/2	514,5	14		935	30,5	1092	35,5
64BHS14-9/40	4	5,5	G 2 1/2	574,5	15,5		1155	40	1152	39
64BHS14-13/55	5,5	7,5	G 2 1/2	694,5	19		1390	49	1342	43
6BHS14-9/40	4	5,5	G 2 1/2	609	17	6"	1191	54	1149	56,5
6BHS14-13/55	5,5	7,5	G 2 1/2	729	21		1344	62	1299	63
6BHS14-15/75	7,5	10	G 2 1/2	789	23		1436	68	1389	66,5
6BHS14-18/75	7,5	10	G 2 1/2	879	25,5		1526	70,5	1479	69
6BHS14-22/92	9,2	12,5	G 2 1/2	999	29,5		1678	76	1599	75,5
6BHS14-26/110	11	15	G 2 1/2	1119	33,5		1831	85	1819	84
6BHS14-31/150	15	20	G 2 1/2	1269	40,5	6"	2046	96	2029	94,5
6BHS14-35/150	15	20	G 2 1/2	1389	44		2166	99	2149	97,5
64BHS21-4/30	3	4	G 2 1/2	474,5	11,5	4"	895	28,5	1052	33,5
64BHS21-6/40	4	5,5	G 2 1/2	554,5	13,5		1135	38,5	1132	37
64BHS21-8/55	5,5	7,5	G 2 1/2	634,5	15,5		1330	45,5	1282	39,5
6BHS21-6/40	4	5,5	G 2 1/2	589	15	6"	1171	52,3	1129	54,7
6BHS21-8/55	5,5	7,5	G 2 1/2	669	17		1284	58	1239	59
6BHS21-12/75	7,5	10	G 2 1/2	829	21,5		1476	67	1429	66
6BHS21-14/92	9,2	12,5	G 2 1/2	909	24		1588	72	1509	71
6BHS21-17/110	11	15	G 2 1/2	1029	26,5		1741	78	1729	77
6BHS21-22/150	15	20	G 2 1/2	1229	34,5		2006	89	1989	90
6BHS21-25/150	15	20	G 2 1/2	1349	38	6"	2126	94	2109	93
6BHS21-29/185	18,5	25	G 2 1/2	1509	42,5		2351	104	2339	108
6BHS21-34/220	22	30	G 2 1/2	1709	48,5		2616	116	2599	119
6BHS21-36/220	22	30	G 2 1/2	1789	51		2696	118	2679	121



## SUBMERSIBLE PUMPS FOR CLEAR AND SUMP WATER

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: 4mts.
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses

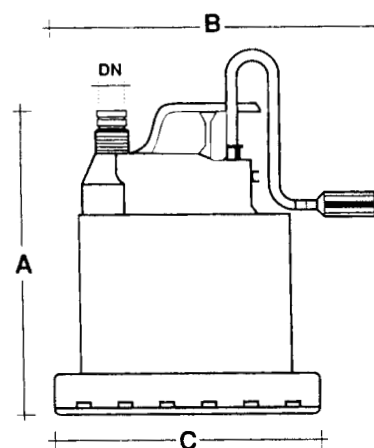
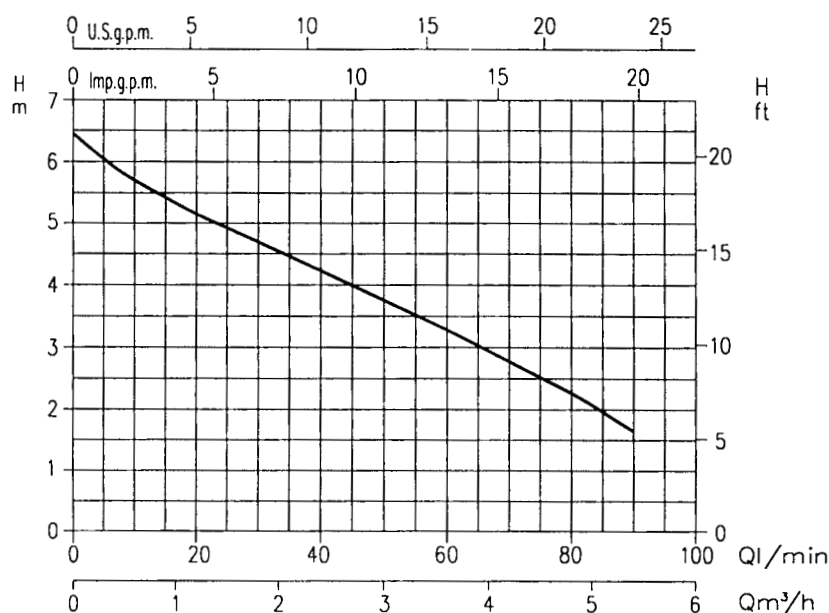
### MATERIALS

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

### TECHNICAL DATA

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

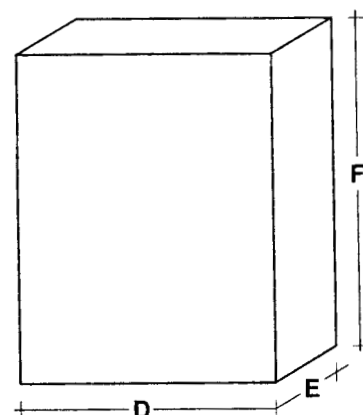
### PERFORMANCE CURVE (according to UNI 9906 Annex A)



	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		INPUT Current	Q = Capacity											
		μF	Vc		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	



Submersible sump pumps suitable for draining garages, cellars and other places subjected to flooding and for garden ponds and small water displays. They can be applied for portable and fixed installations. Supplied with 5 m cable length type H05 RN-F and available with or without float switch. (10 m cable H05 RN-F on request)



### SPECIFICATIONS

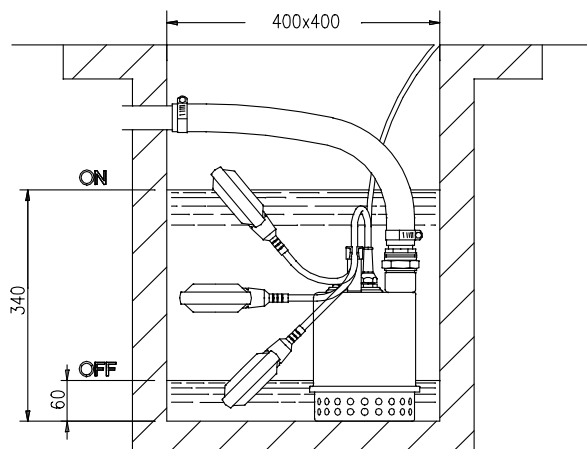
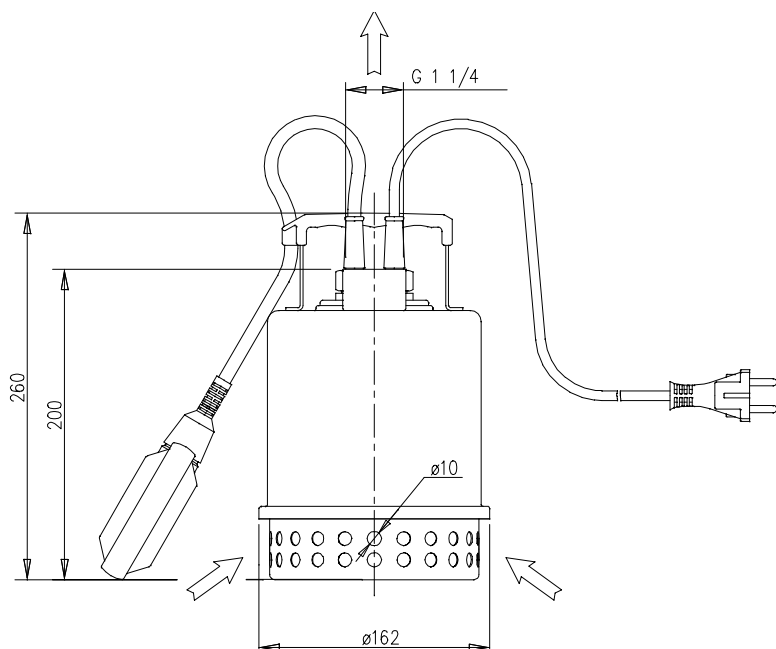
- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses
- Maximum immersion: 5 m
- Maximum passage of solids: 10 mm

### TECHNICAL DATA

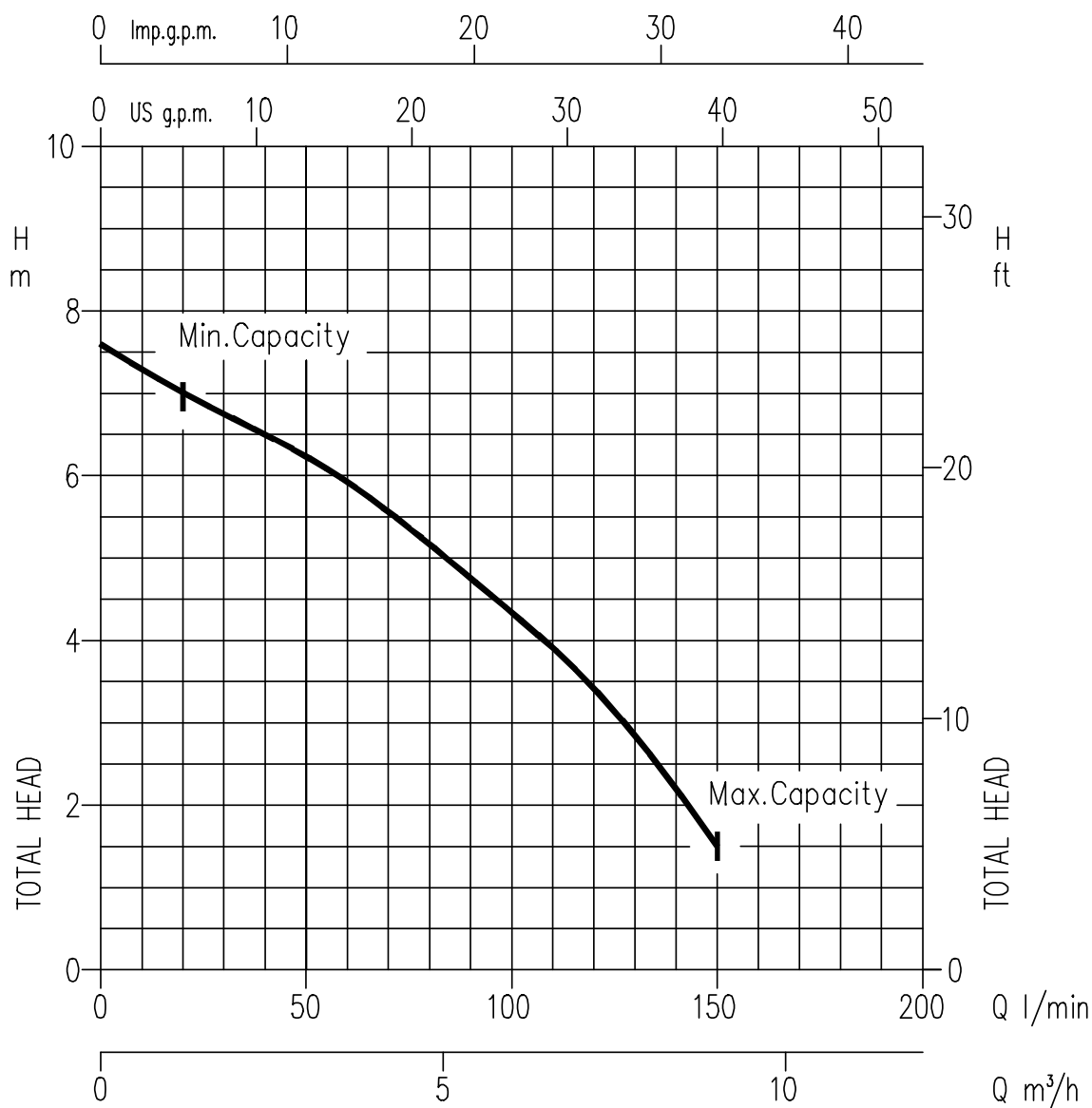
- Asynchronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm$  10%, 50Hz
- DNM 1 1/4

### MATERIALS

- Pump casing, strainer, cover and motor casing in AISI 304
- Impeller, diffuser and spacer in tecnopolymer
- Shaft in AISI 303
- Grease lubricated double lip seal



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



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Abs. Curr. (A)		l/min m³/h	Q=Capacity						Pump type	Weight kg
Single-phase 230 V	Three-phase 400 V		µF	V <sub>c</sub>	Single-phase	Three-phase		20	50	75	100	125	150		
								1,2	3	4,5	6	7,5	9		
								H=Total head							
BEST ZERO M	BEST ZERO	0,25	8	450	1,9	0,95		7	6,3	5,4	4,3	3,1	1,5	BEST ZERO MA	4,4
														BEST ZERO M	4,2
														BEST ZERO	4,4

MA = only for single-phase  
with float switch

Submersible drainage sump pump made of stainless steel AISI 304, shaft sealing is with double lip seals that run on a ceramic-coated shaft. Suitable for draining wells, plant room sumps, and lift shafts, emptying, pools, sumps, small-scale irrigation and small water displays and pub cellars. Options include with - without float switch - VOX versions and 110 - 230 - 400V versions. (10 m cable H05 RN-F on request)



### SPECIFICATIONS

- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
40°C for other uses
- Maximum immersion: 5 m
- Maximum passage of solids: 10 mm  
20 mm per VOX version

### TECHNICAL DATA

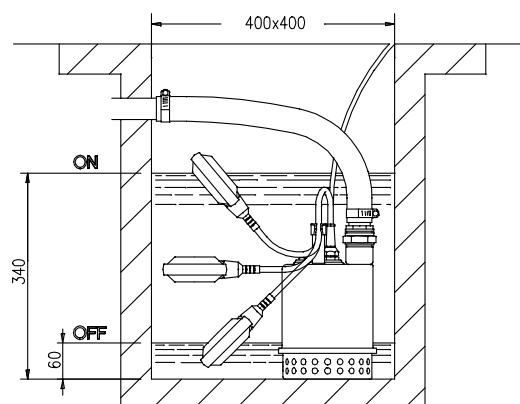
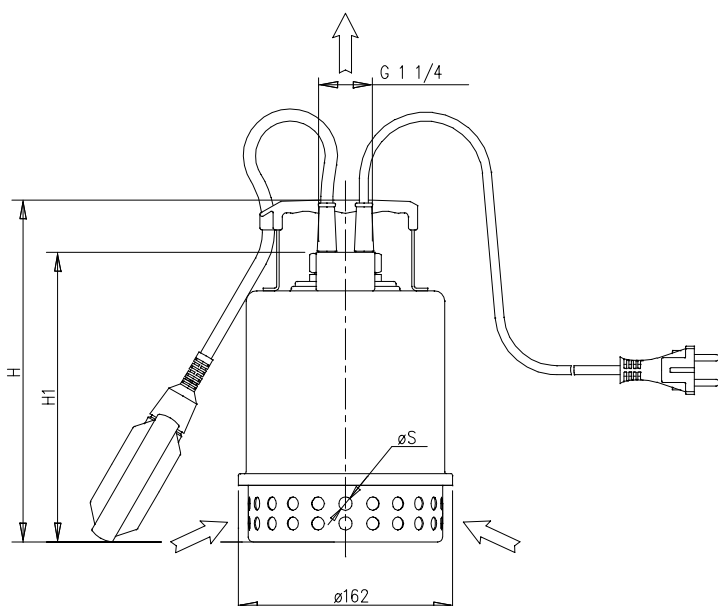
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm$  10%, 50Hz
- DNM 1"  $\frac{1}{4}$

### MATERIALS

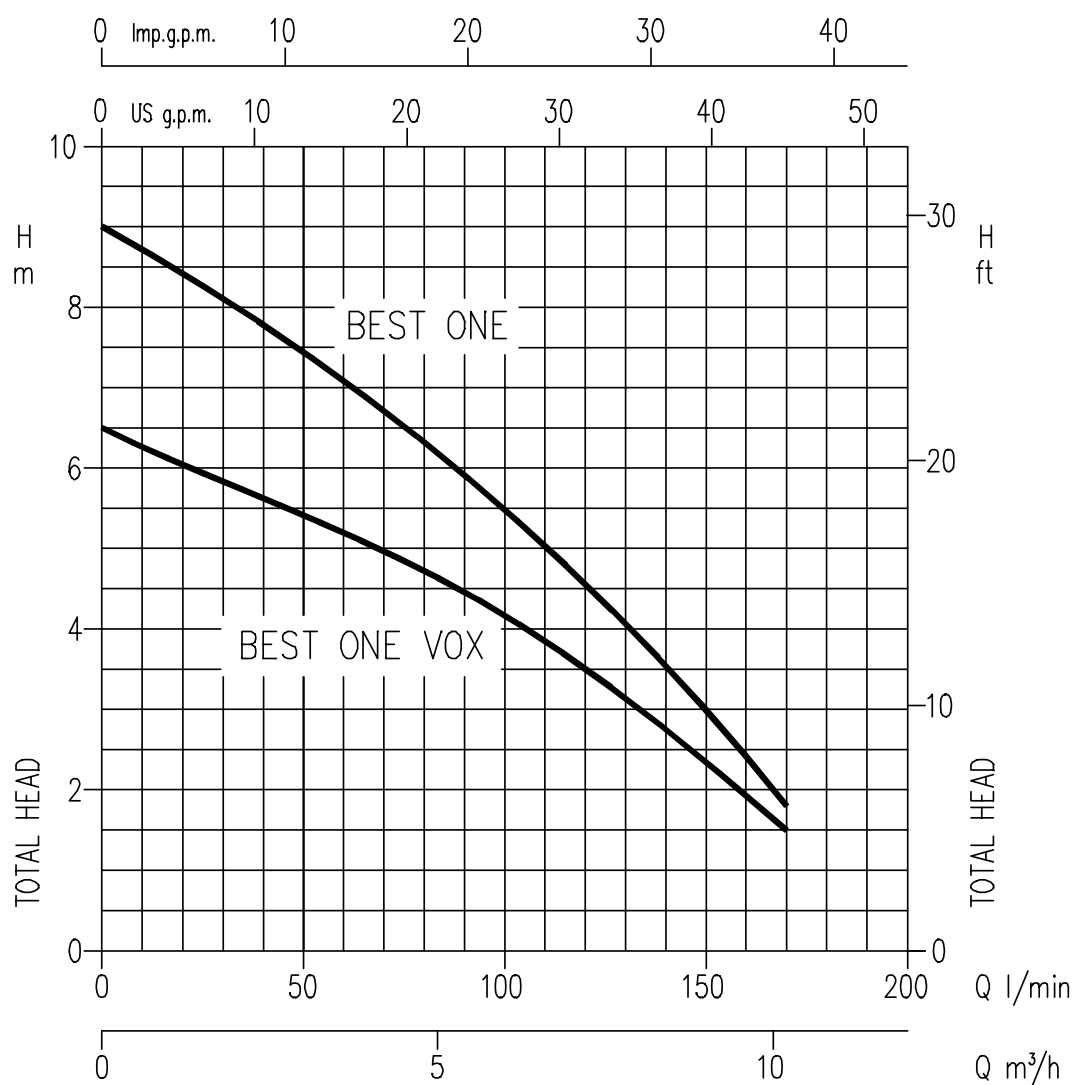
- Pump casing, impeller strainer, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double lip seal with interposed oil chamber

### DIMENSIONAL TABLE

Pump type	(mm)		
	H	H1	S
BEST ONE	260	220	10
BEST ONE VOX	285	245	20



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



### PERFORMANCE TABLE

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

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 - without float switch. Solids handling up to 10 mm



### SPECIFICATIONS

- Maximum liquid temperature:  
35°C according EN 60335-2-41 for domestic uses  
50°C for other uses
- Maximum immersion: 10 m
- Maximum passage of solids: 10 mm

### MATERIALS

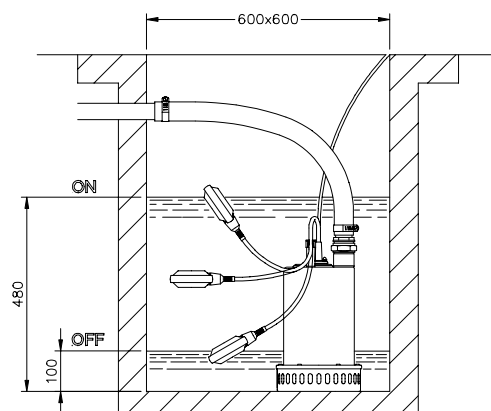
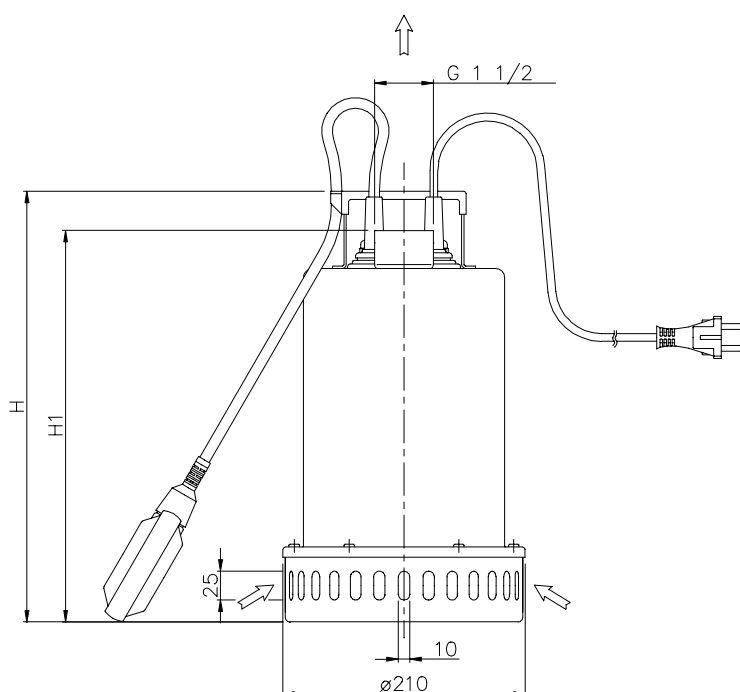
- Pump casing, impeller, strainer, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double mechanical seal with interposed oil chamber upper in carbon-ceramic/NBR - lower in SiC/SiC/NBR

### TECHNICAL DATA

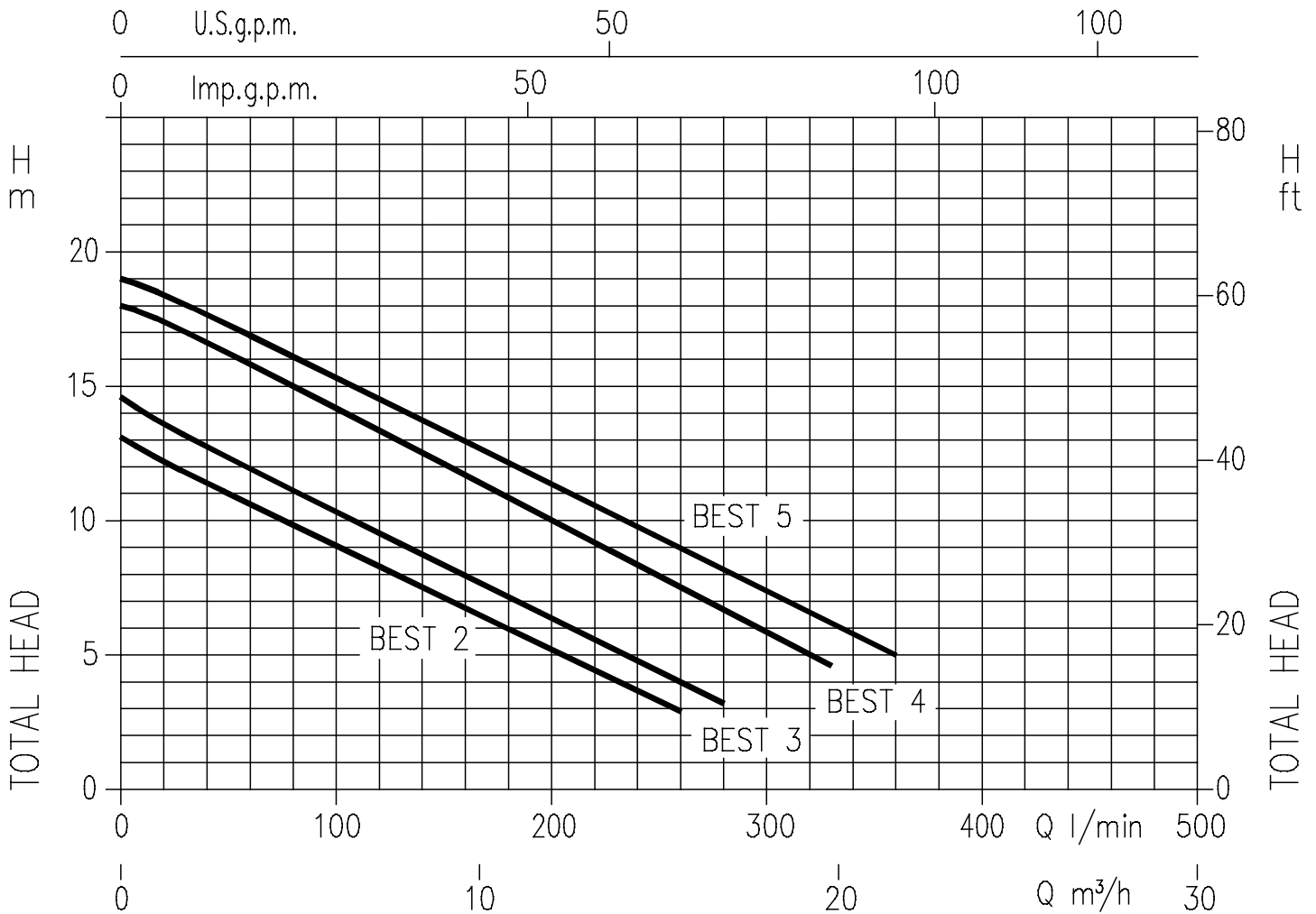
- Asynchronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm$  10%, 50Hz - 3~400V  $\pm$  10%, 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNM 1"  $\frac{1}{2}$

### DIMENSIONAL TABLE

Pump type	(mm)		Weight kg
	H	H1	
BEST 2	352	315	12
BEST 3	352	315	12,7
BEST 4	377	340	138
BEST 5	377	340	13,5



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



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)		l/min m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	V <sub>c</sub>	1~	3~		20 1,2	80 4,8	120 7,2	170 10,2	260 15,6	280 16,8	330 19,8	360 21,6
BEST 2 M	BEST 2	0,55	16	450	4,4	2,0		12,2	9,8	8,3	6,3	2,9	-	-	-
BEST 3 M	BEST 3	0,75	20	450	5,6	2,4		13,6	11,1	9,5	7,6	4	3,2	-	-
BEST 4 M	BEST 4	1,1	31,5	450	7,3	3,0		17,4	15	13,4	11,3	7,5	6,7	4,6	-
-	BEST 5	1,5	-	-	-	3,3		18,4	16,1	14,5	12,5	9	8	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 - 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

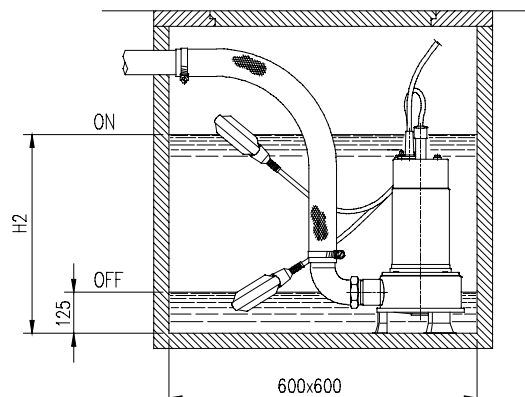
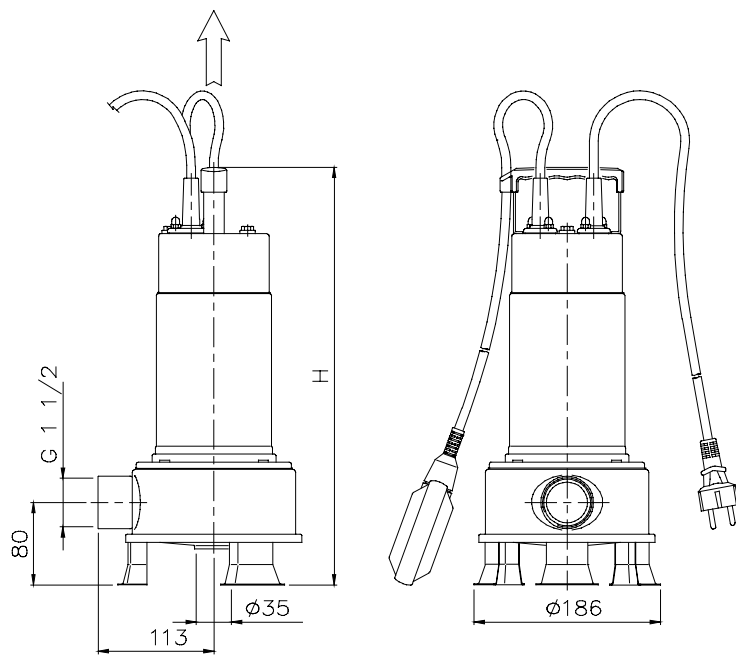
- Pump casing, impeller, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 303
- Double mechanical seal with interposed oil chamber: upper in carbon/ceramic/NBR, lower in Sic/SiC/NBR

### TECHNICAL DATA

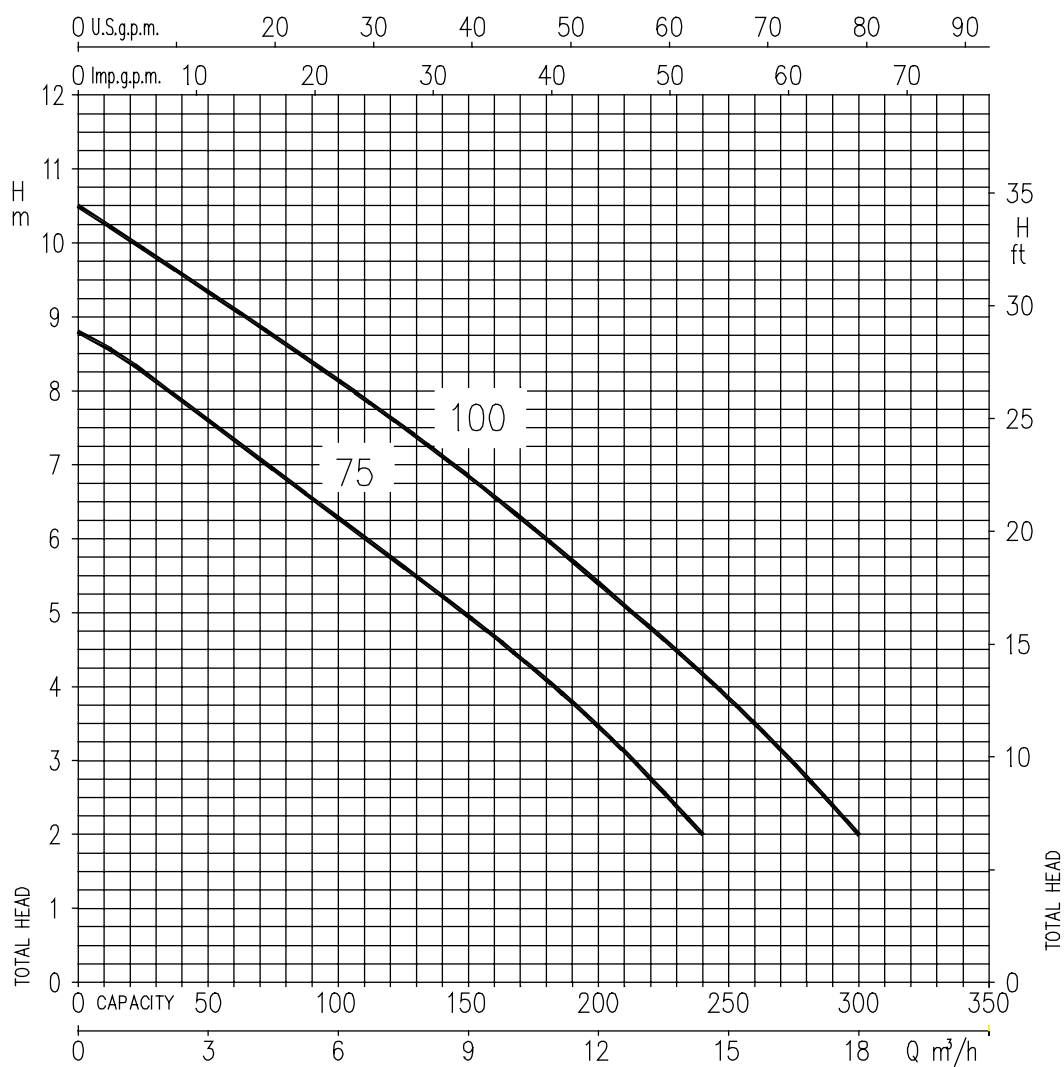
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm$  10%, 50Hz - 3~400V  $\pm$  10%, 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNM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

### DIMENSIONAL TABLE

Pump type	(mm)		Weight kg
	H	H2	
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)		l/min m³/h	Q=Capacity							
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	V <sub>c</sub>	1~	3~		40	80	100	120	160	200	240	300
								2,4	4,8	6	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	6,2	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	8,1	7,6	6,6	5,4	4,2	2

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 - without float switch. Solids handling up to 50 mm.



### SPECIFICATIONS

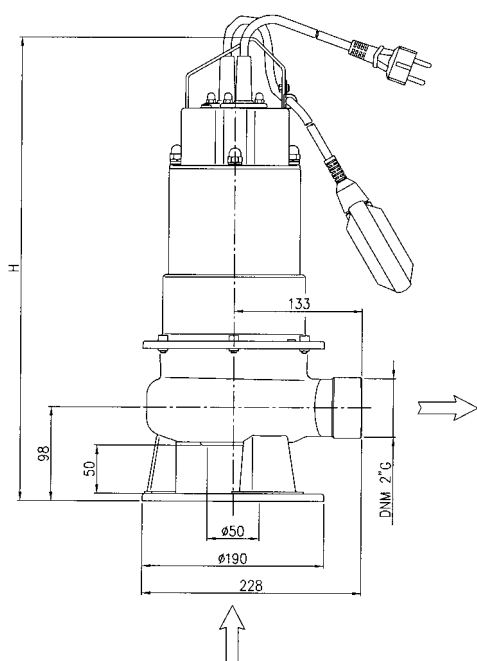
- Maximum liquid temperature: 40°C
- Maximum immersion: 10 m
- Maximum passage of solids: 50 mm

### 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

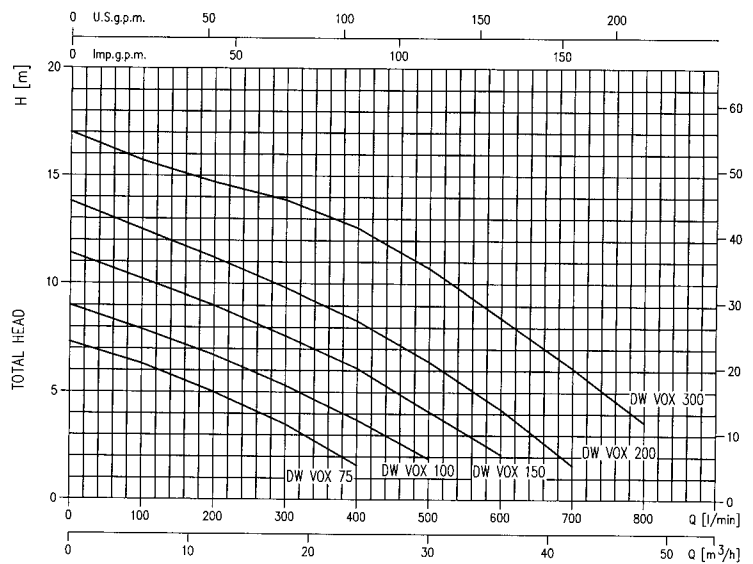
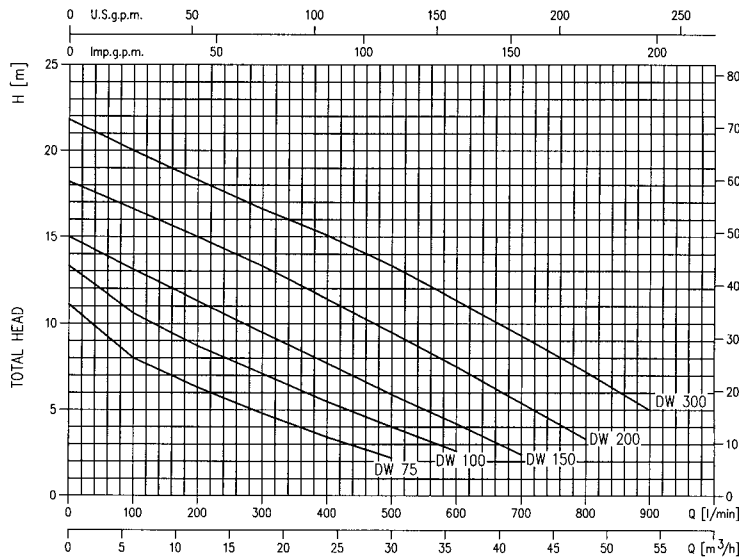
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP68
- 1~230V  $\pm 10\%$  50Hz - 3~400V  $\pm 10\%$  50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- DNA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



### DIMENSIONAL TABLE

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

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

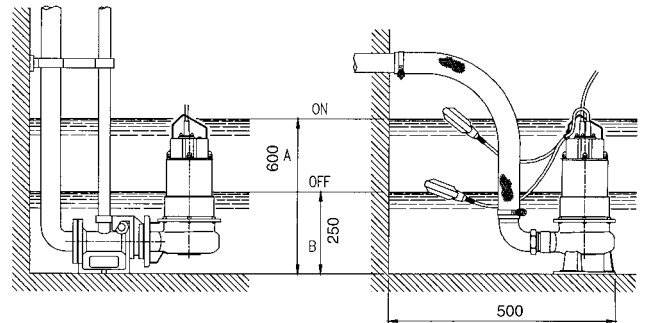
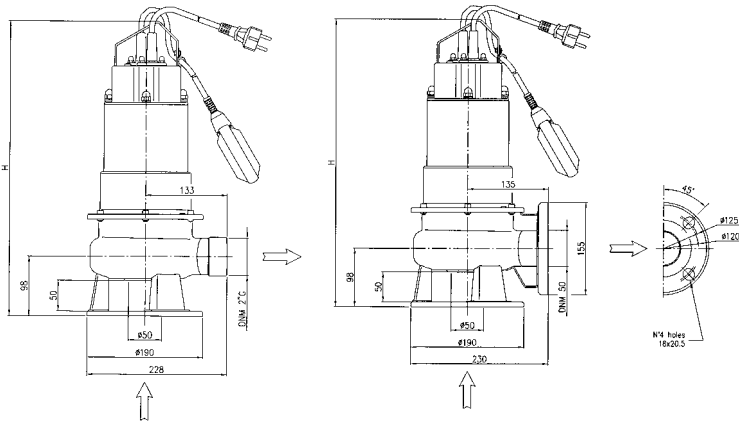


**DW  
DW VOX**

**DWF  
DW VOX F**

**DW FZ  
DW VOX FZ**

**DW  
DW VOX**



### PERFORMANCE TABLE

Pump type		kW	Capacitor		Absorbed Current (A)		l/min m³/h	Q=Capacity								
Single-phase 230V 50Hz	Three-phase 400V 50Hz		µF	V <sub>c</sub>	1~	3- 400V		100 6	200 12	300 18	400 24	500 30	600 36	700 42	800 48	900 54
H=Total head																
DW 75 M	DW 75	0,55	20	450	3,9	1,5	8	6,3	4,8	3,4	2,2	-	-	-	-	
DW 100 M	DW 100	0,75	25	450	5,9	2,1	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	13,1	11,3	9,5	7,7	5,9	4,2	2,4	-	-	
-	DW 200	1,5	-	-	-	3,6	16,6	15	13,3	11,4	9,5	7,5	5,4	3,3	5	
-	DW 300	2,2	-	-	-	5,0	20	18,3	16,6	15,1	13,3	11,3	9,3	7,2	-	
DW VOX 75 M	DW VOX 75	0,55	20	450	3,9	1,4	6,3	5	3,5	1,6	-	-	-	-	-	
DW VOX 100 M	DW VOX 100	0,75	25	450	5,8	2,1	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	10,2	9	7,6	6,1	4,1	2,1	-	-	-	
-	DW VOX 200	1,5	-	-	-	3,3	12,5	11,2	9,8	8,3	6,4	4,2	1,6	-	-	
-	DW VOX 300	2,2	-	-	-	4,4	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

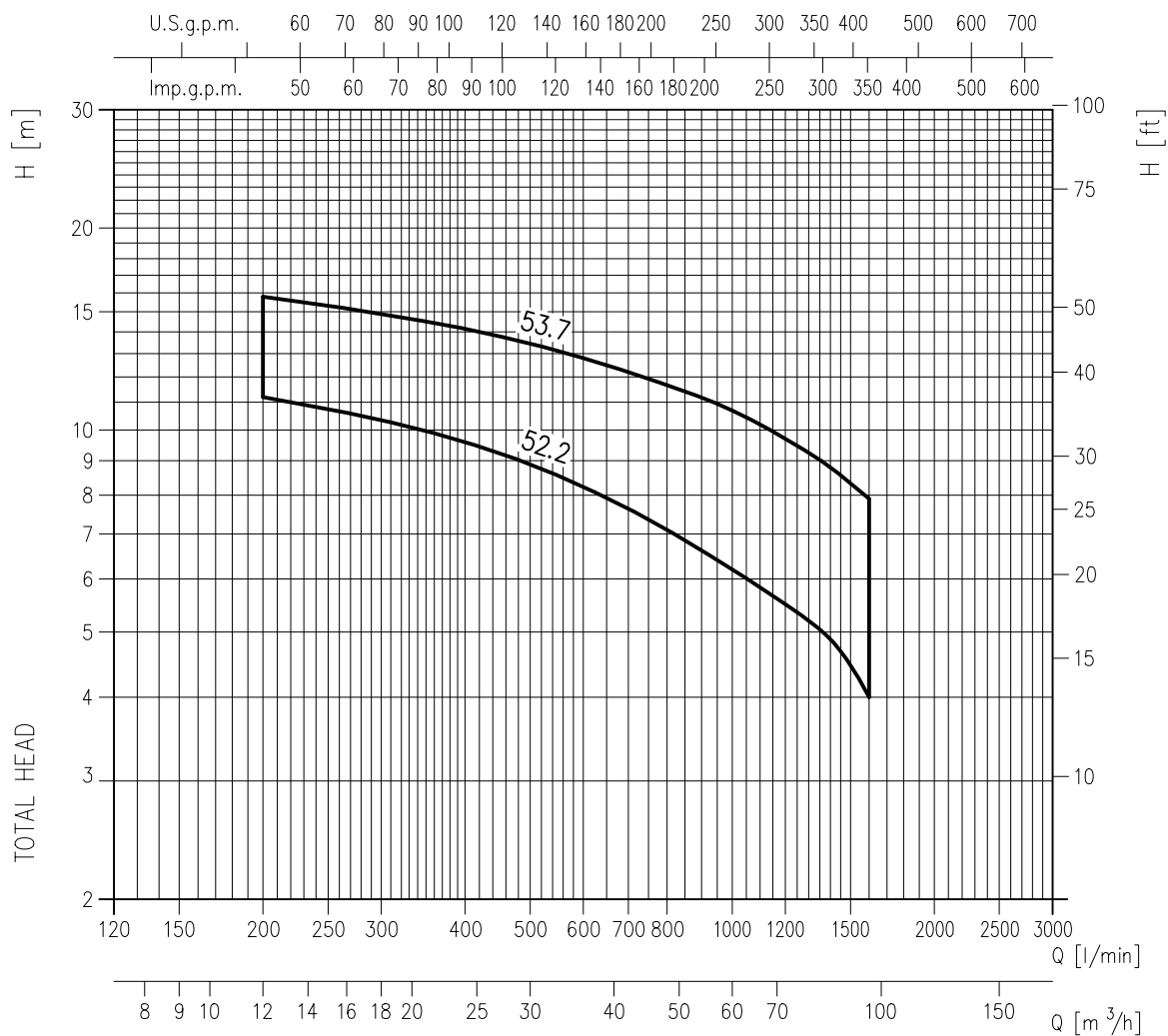
### **MATERIALS**

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

### **TECHNICAL DATA**

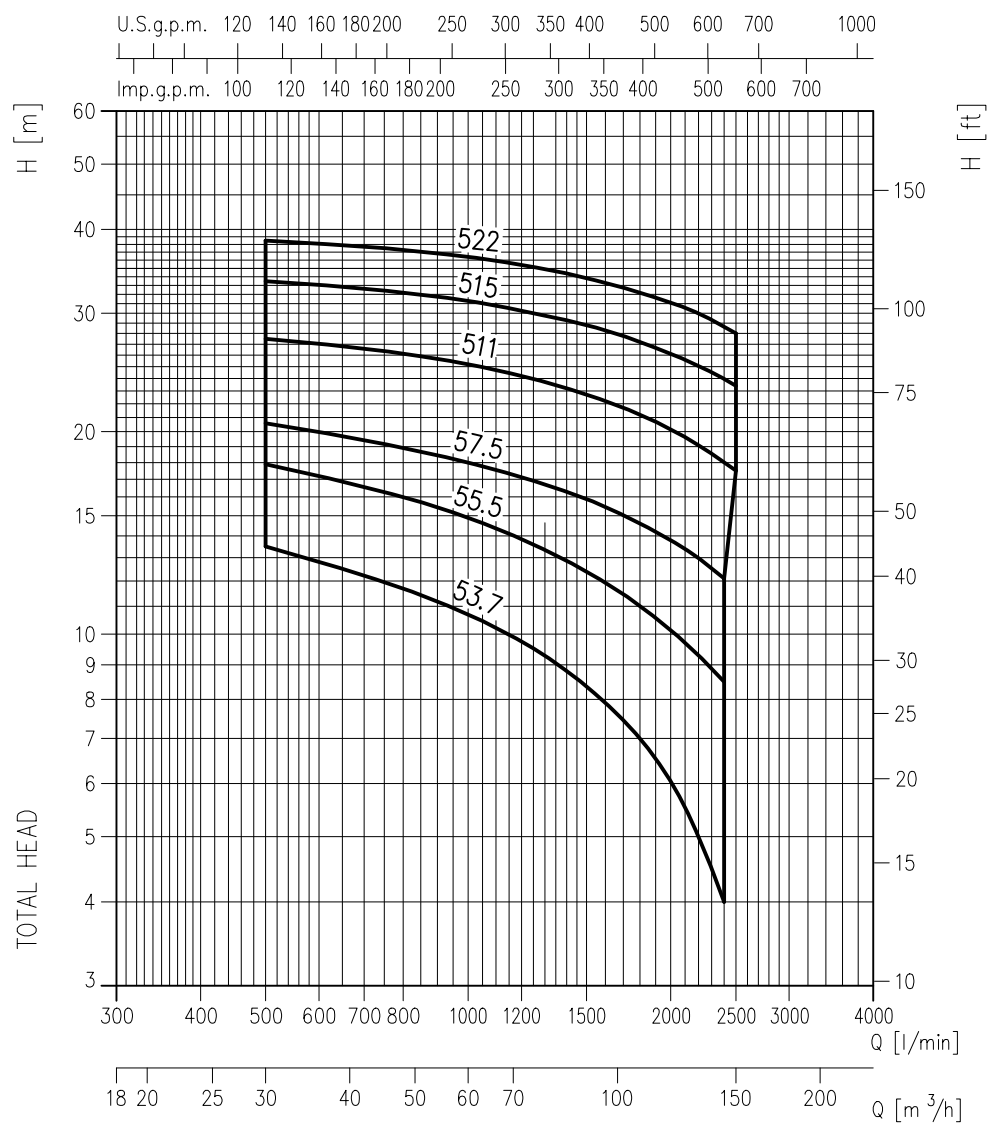
- 4 poles motor
- Insulation class F
- protection degree IP68
- 3~ 400V, 50 Hz
- DN80, DN100, DN150 flanges
- Power up to 22 kW

## PERFORMANCE CURVES 80DML (according to ISO 9906 Annex A)



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 [m]												
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	

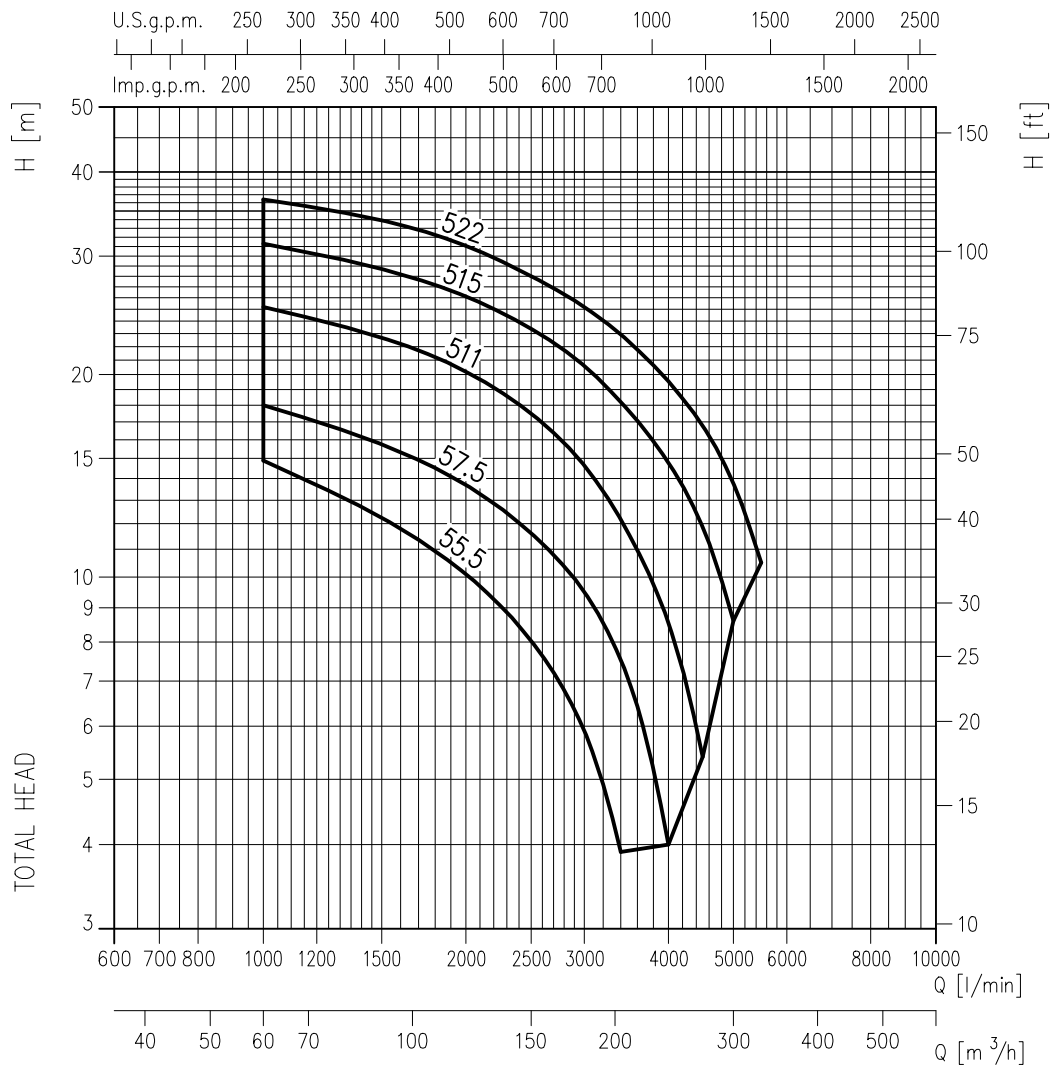
## PERFORMANCE CURVES 100DML (according to ISO 9906 Annex A)



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 [m]												
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	

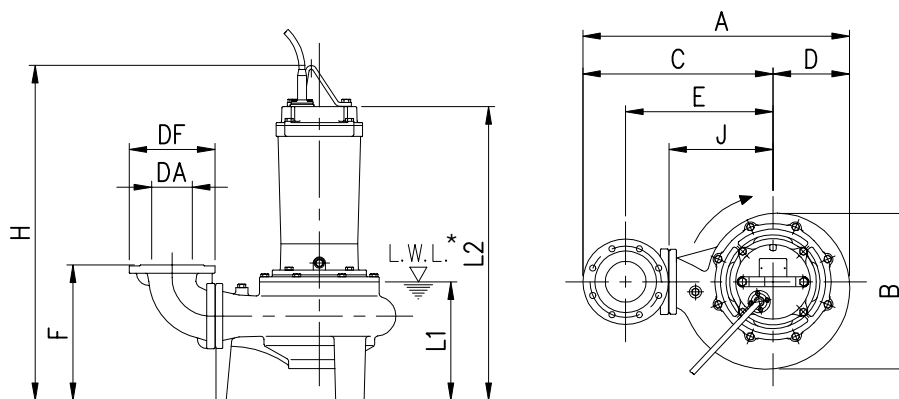


## PERFORMANCE CURVES 150DML (according to ISO 9906 Annex A)

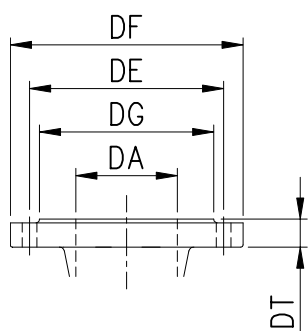


Pump type DML	kW	HP	Q=Capacity										
			l/min	0	1000	2000	2500	3000	3400	4000	4500	5000	5500
			m³/h	0	60	120	150	180	204	240	270	300	330
H=Total head [m]													
150DML55.5	5.5	7.5	22	14.9	10.1	8	5.9	3.9	-	-	-	-	
150DML57.5	7.5	10	25.3	18	13.7	11.6	9.5	7.5	4	-	-	-	
150DML511	11	15	30.3	25.2	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



\* L.W.L. = Low water level



## FLANGES

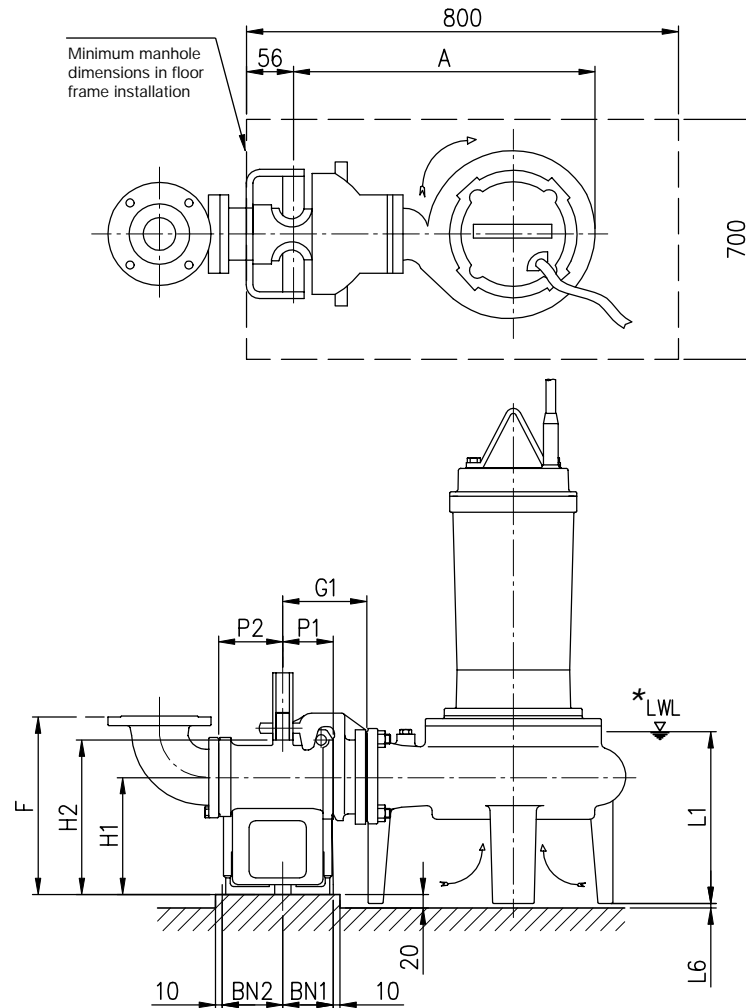
DA	DG	DE	DF	DT
80	138	160	200	22
100	158	180	220	24
150	212	240	285	26

## DIMENSIONAL TABLE

Pump type DML	Dimensions												Weight kg
	DA	kW	A	B	C	D	E	F	H	J	L1	L2	
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

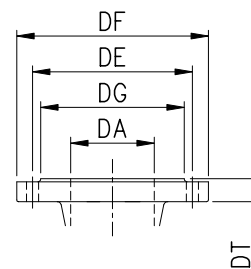
80 (100) DML 52.2, 53.7



\* LWL = Low water level

### FLANGES

DA	DG	DE	DF	DT
80	138	160	200	22
100	158	180	220	24

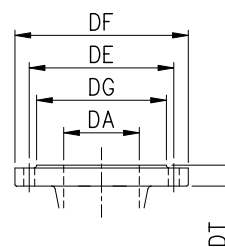
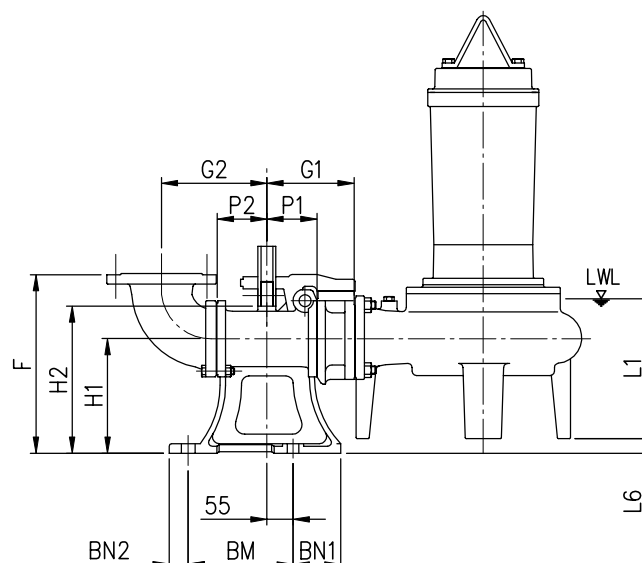
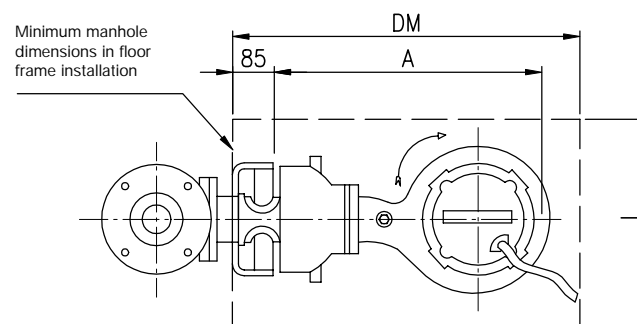


### DIMENSIONAL TABLE

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



### FLANGES

DA	DG	DE	DF	DT
100	158	180	220	24
150	212	240	285	26

### 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

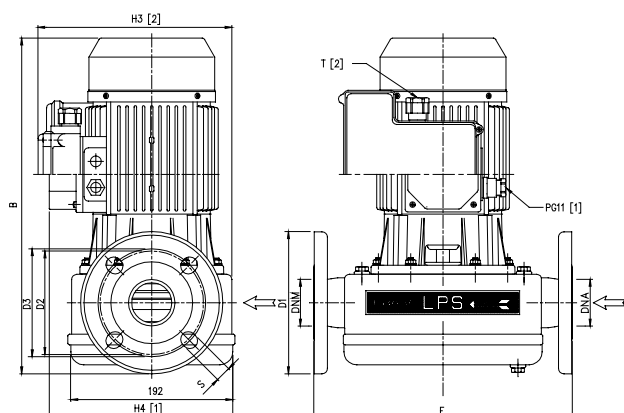
- Maximum positive suction pressure:  
2 bar for all single-phase and for LPS 25 three-phase,  
4 bar for LPS 32-40-50 three-phase
- Maximum liquid temperature: 100°C

### 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

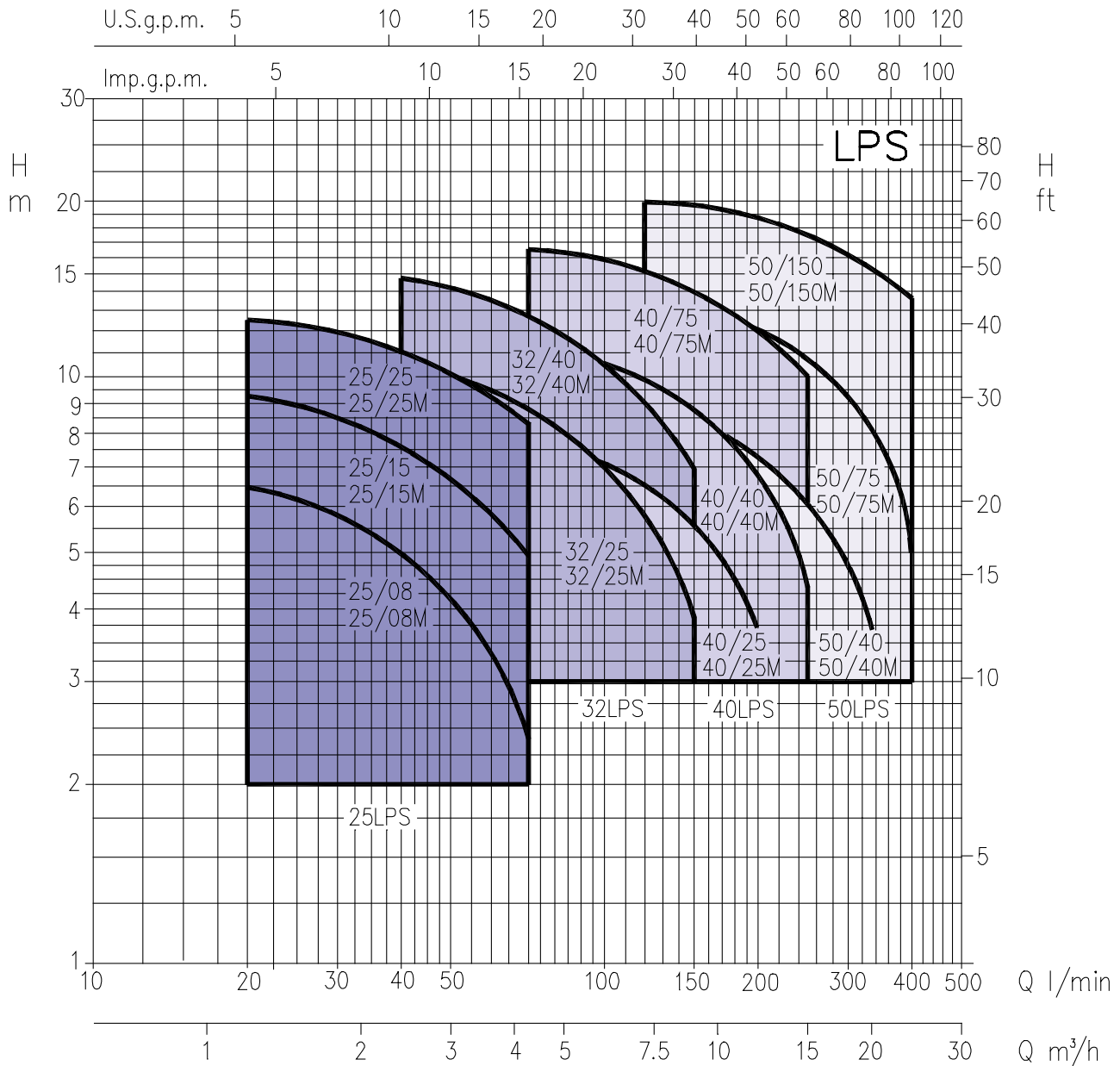
- Asincronous 2 poles motor
- Insulation class F
- Protection degree IP55
- 1~230V  $\pm$  10% 50Hz - 3~400V  $\pm$  10% 50Hz
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version
- Flange: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



### DIMENSIONAL TABLE

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

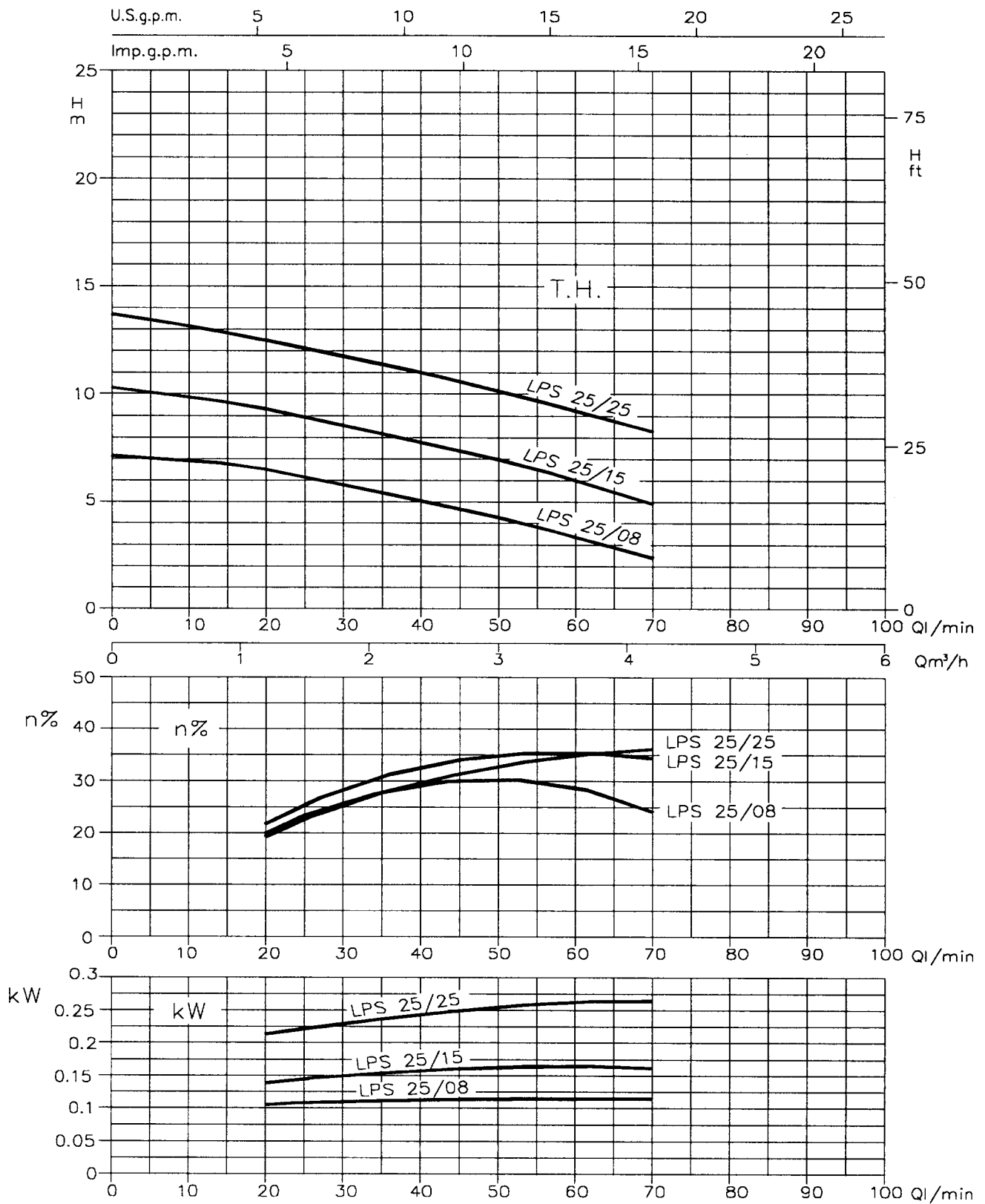
## PERFORMANCE CHART (according to ISO 9906 Annex A)



## PERFORMANCE TABLE

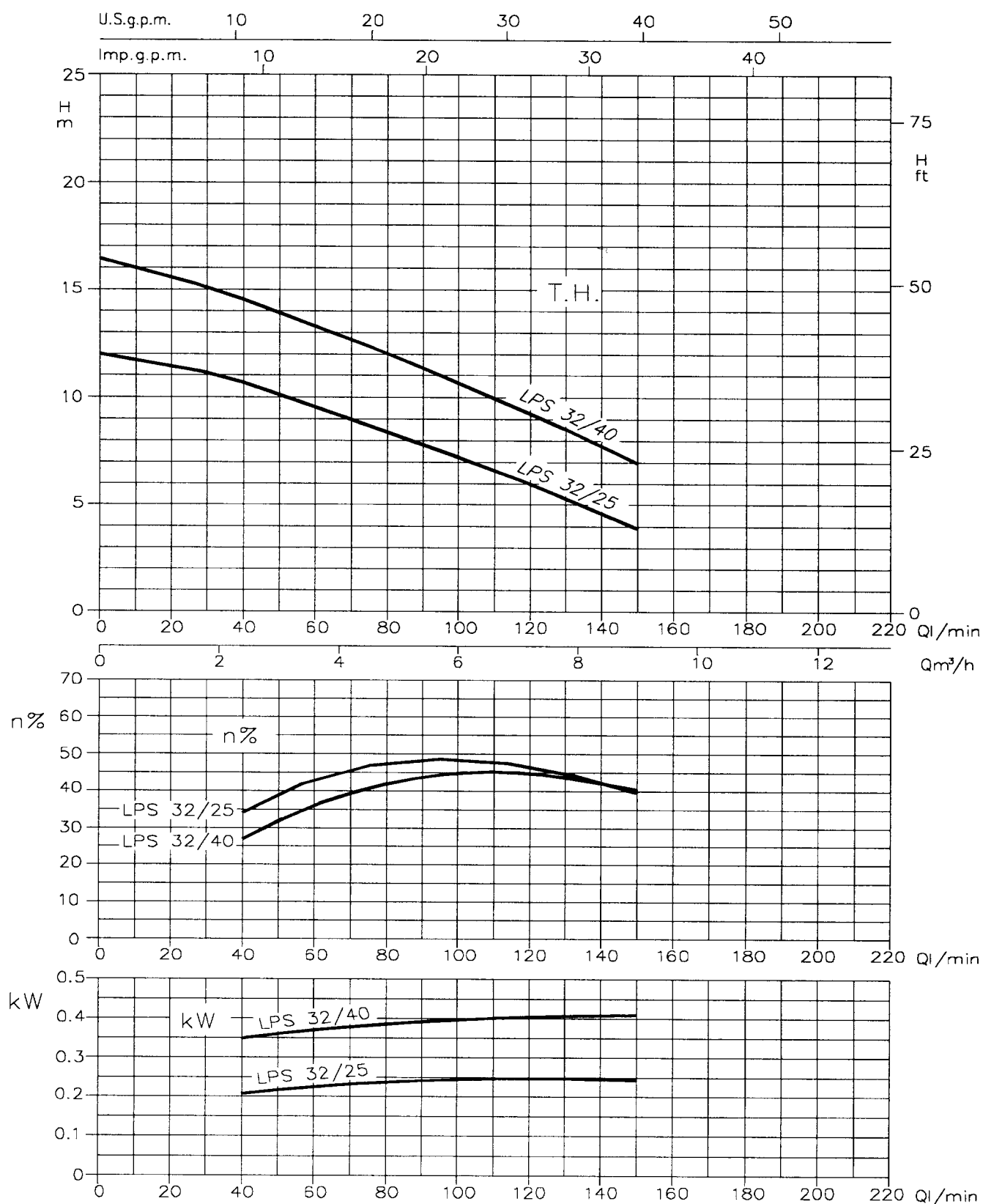
Pump type		kW	Capacitor		Absorbed Current (A)			l/min m³/h	Q=Capacity											
Single-phase 230V 50Hz	Three-phase 230/400V 50Hz		µF	V <sub>c</sub>	1~	230V	3~ 400V		20	40	70	100	120	150	200	250	320	400		
									1,2	2,4	4,2	6	7,2	9	12	15	19,2	24		
									H=Total head											
LPS 25/08 M	LPS 25/08	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)

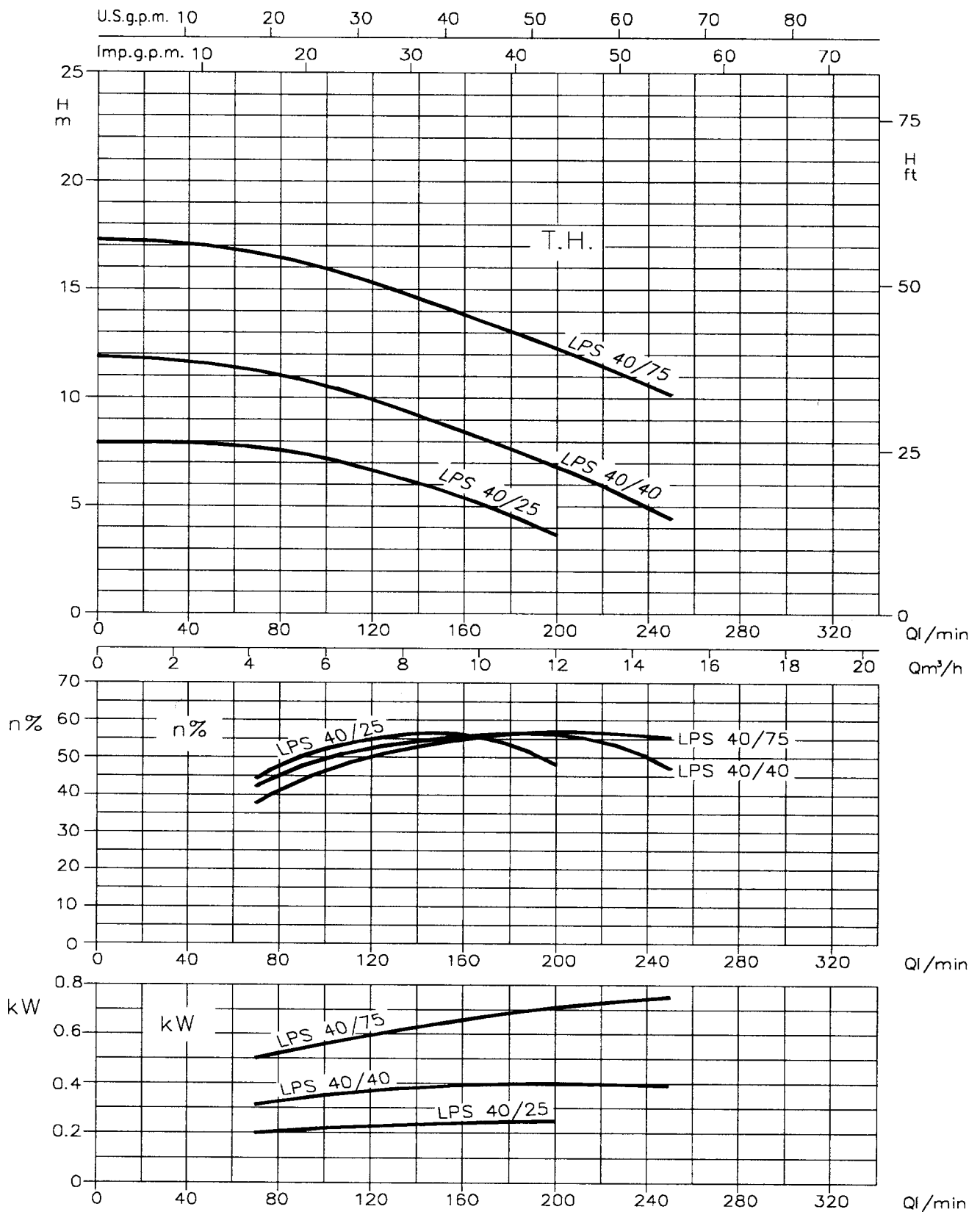




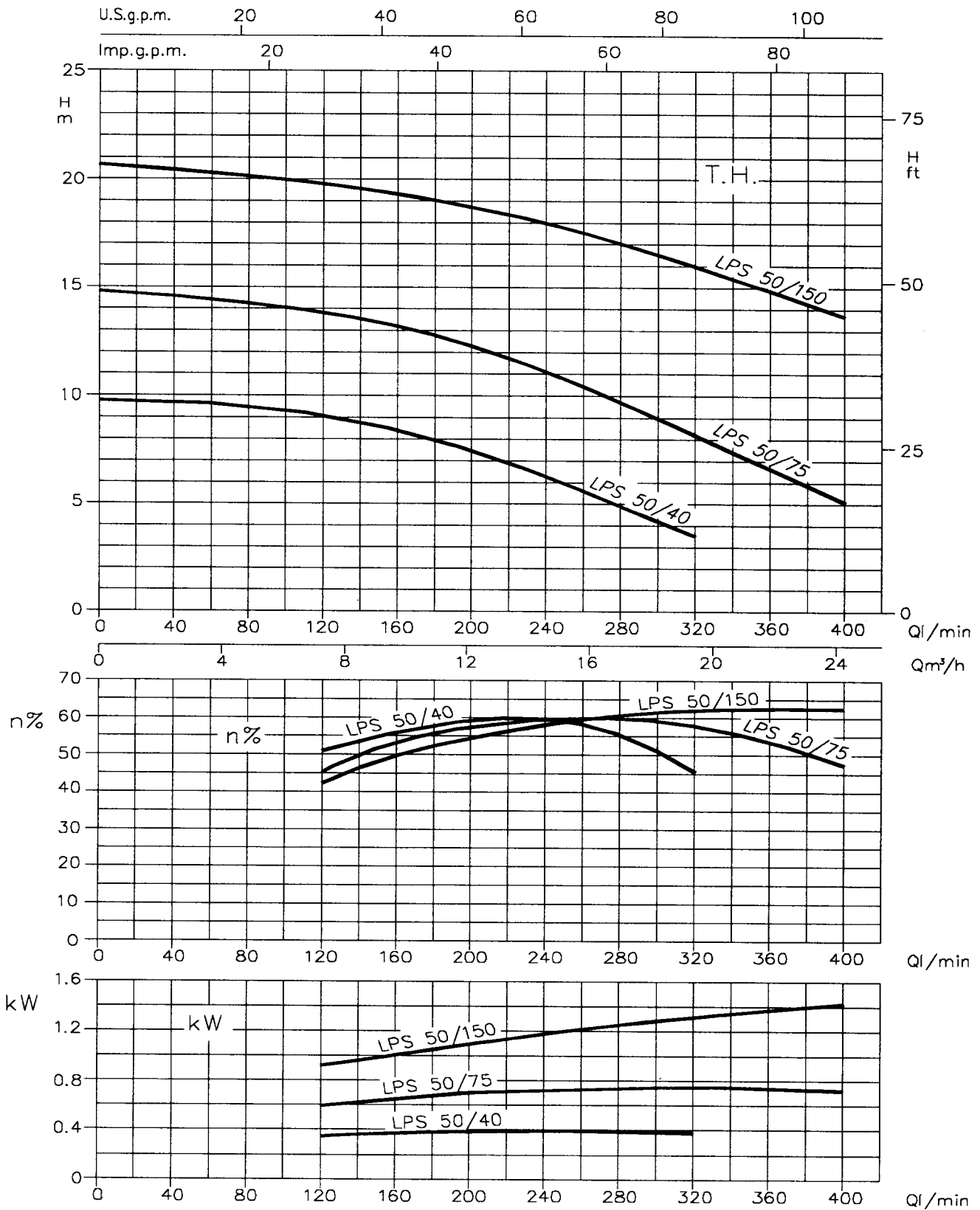
### PERFORMANCE CURVES LPS 32 series (according to ISO 9906 Annex A)



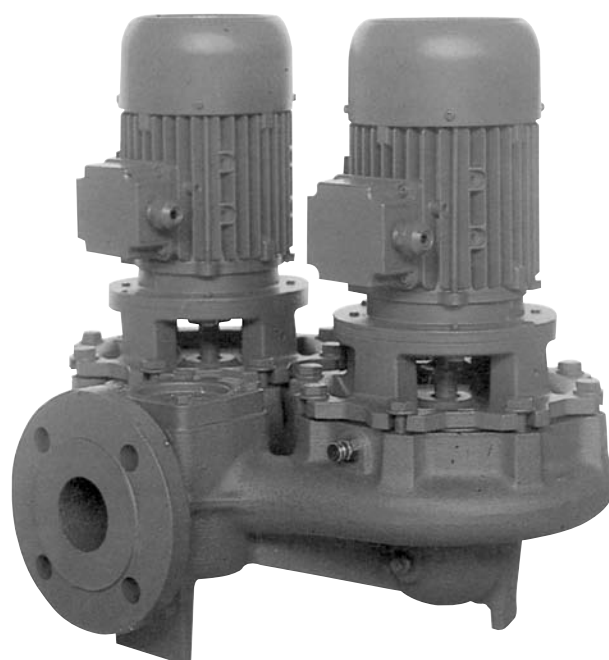
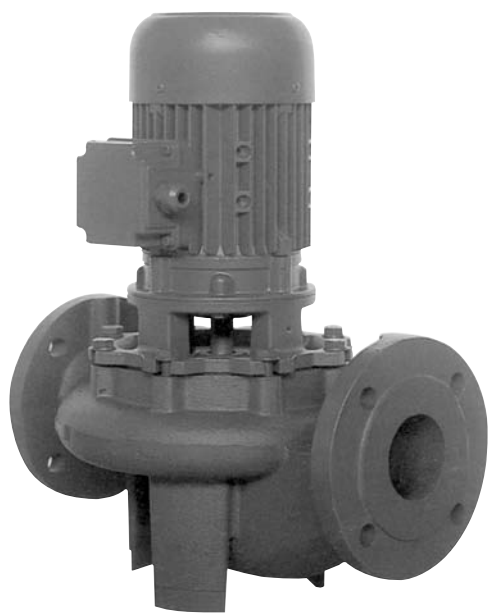
### PERFORMANCE CURVES LPS 40 series (according to ISO 9906 Annex A)



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



*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
- Maximum liquid temperature: -10°C +130°C

### MATERIALS

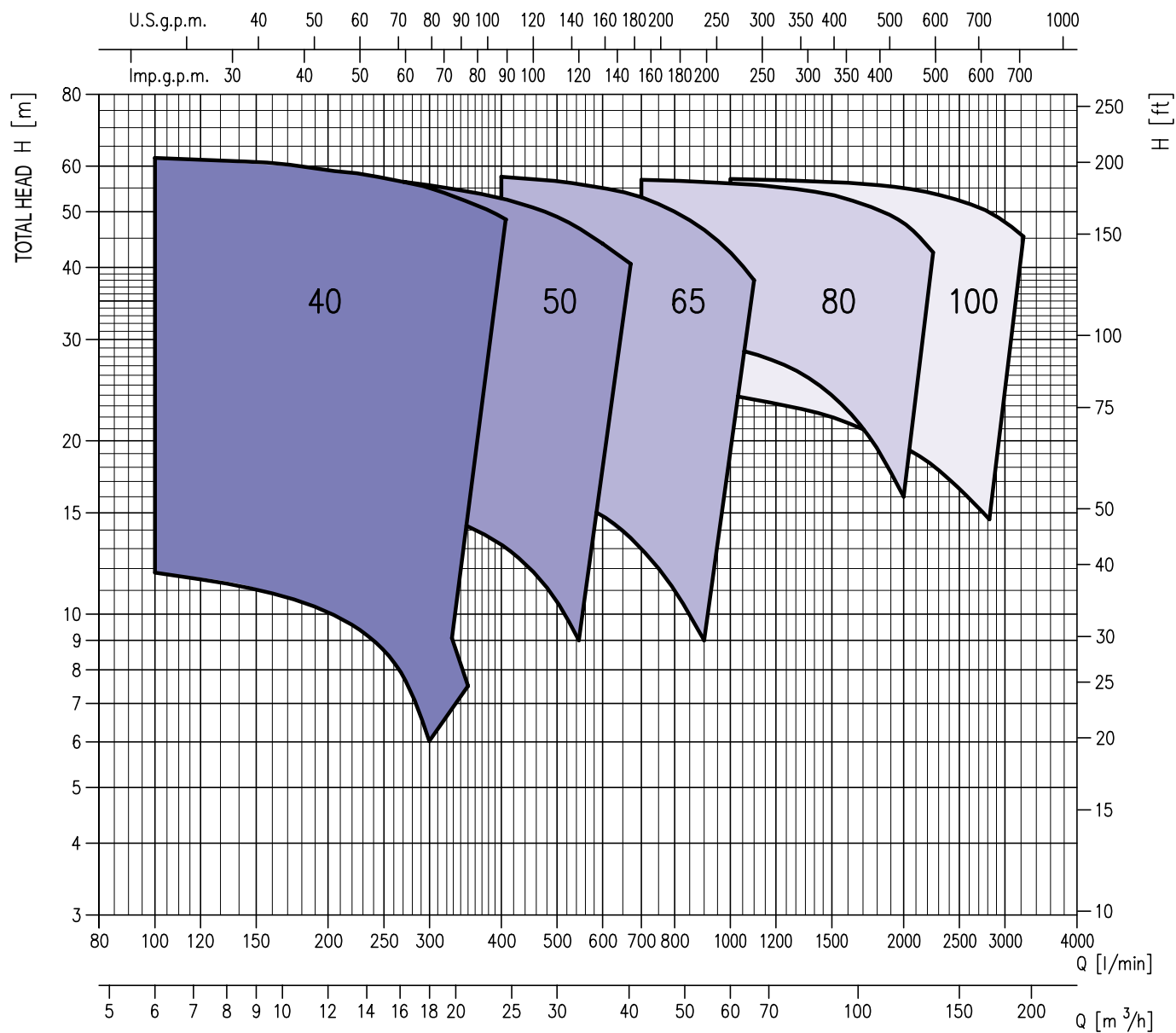
- Pump casing, impeller and casing cover in cast iron
- Shaft in AISI 420
- Bracket and motor casing in aluminium
- Mechanical seal in Carbon/SiC/EPDM  
(SiC/SiC/EPDM optional)

### TECHNICAL DATA

- Asynchronous 2 and 4 poles motor
- Insulation Class F
- Protection Degree IP 54
- 3~ 230/400V  $\pm 10\%$  50 Hz up to 5.5 kW,  
400-690V  $\pm 10\%$  50 Hz above
- Thermal protection to be provided by the user for three-phase version
- PN10 Flanges

## PERFORMANCE CHART LPC series

2 POLES



R.P.M.  $\approx 2900 \text{ min}^{-1}$   
 Fluid test: clean water  $20^\circ\text{C}$   
 Applicable standard: UNI EN ISO 9906 Annex A

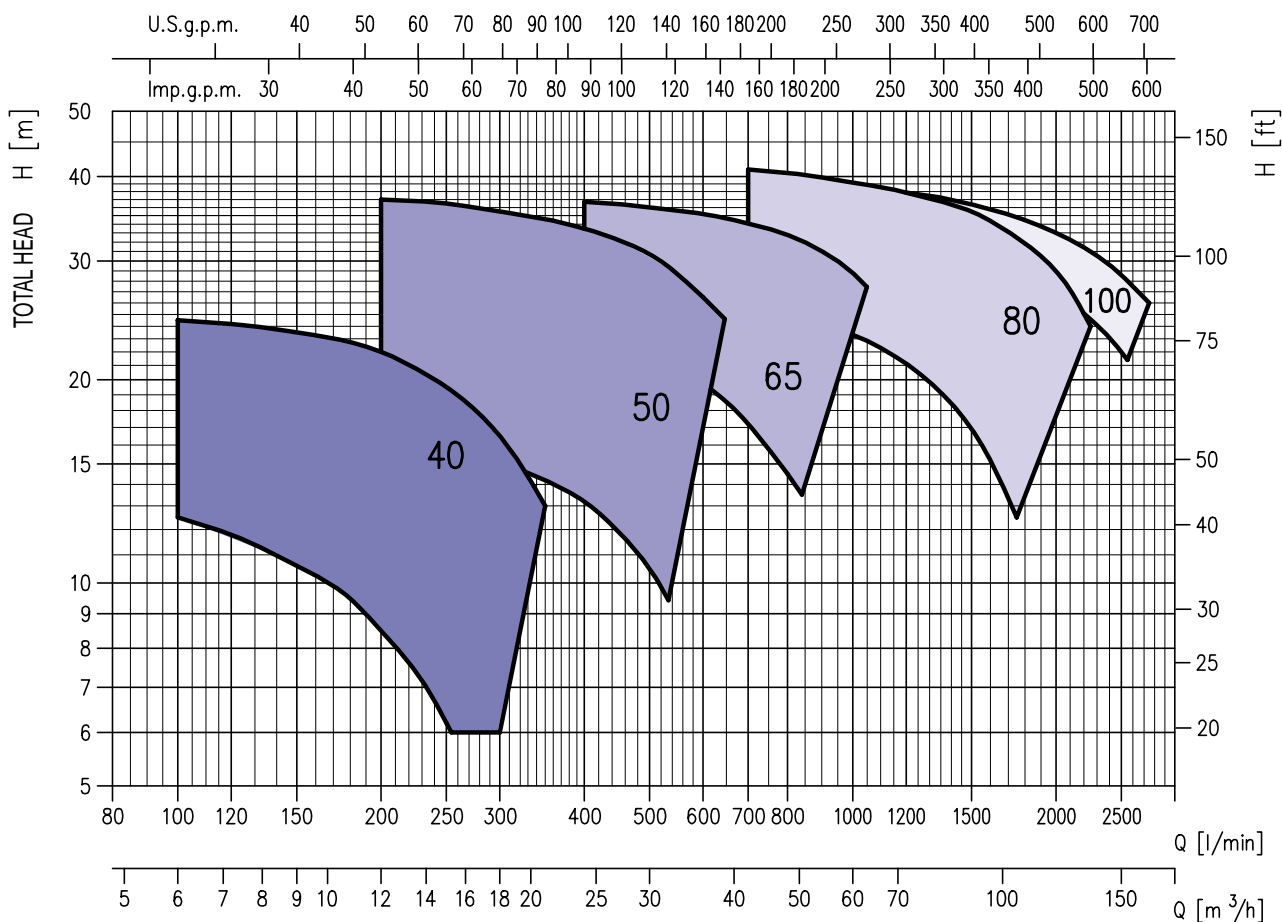
### PERFORMANCE TABLE LPC 40-50-65-80-100 series

## 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
	kW	HP	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
	H=Total head [m]																														
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.	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.  $\approx 2900 \text{ min}^{-1}$   
 Fluid test: clean water 20°C  
 Applicable standard: UNI EN ISO 9906 Annex A

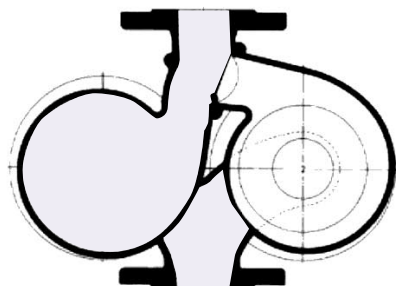


PERFORMANCE TABLE LPCD 40-50-65-80-100 series

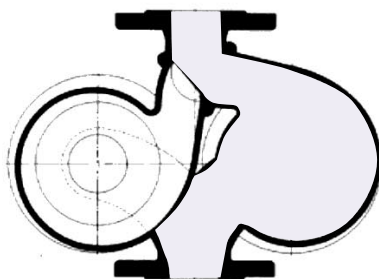
2 POLES

Pump type	Motor		Q=Capacity																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	kW	HP	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

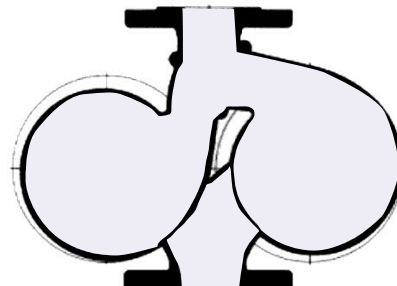
Automatic operation of no-return valve



Left pump in operation



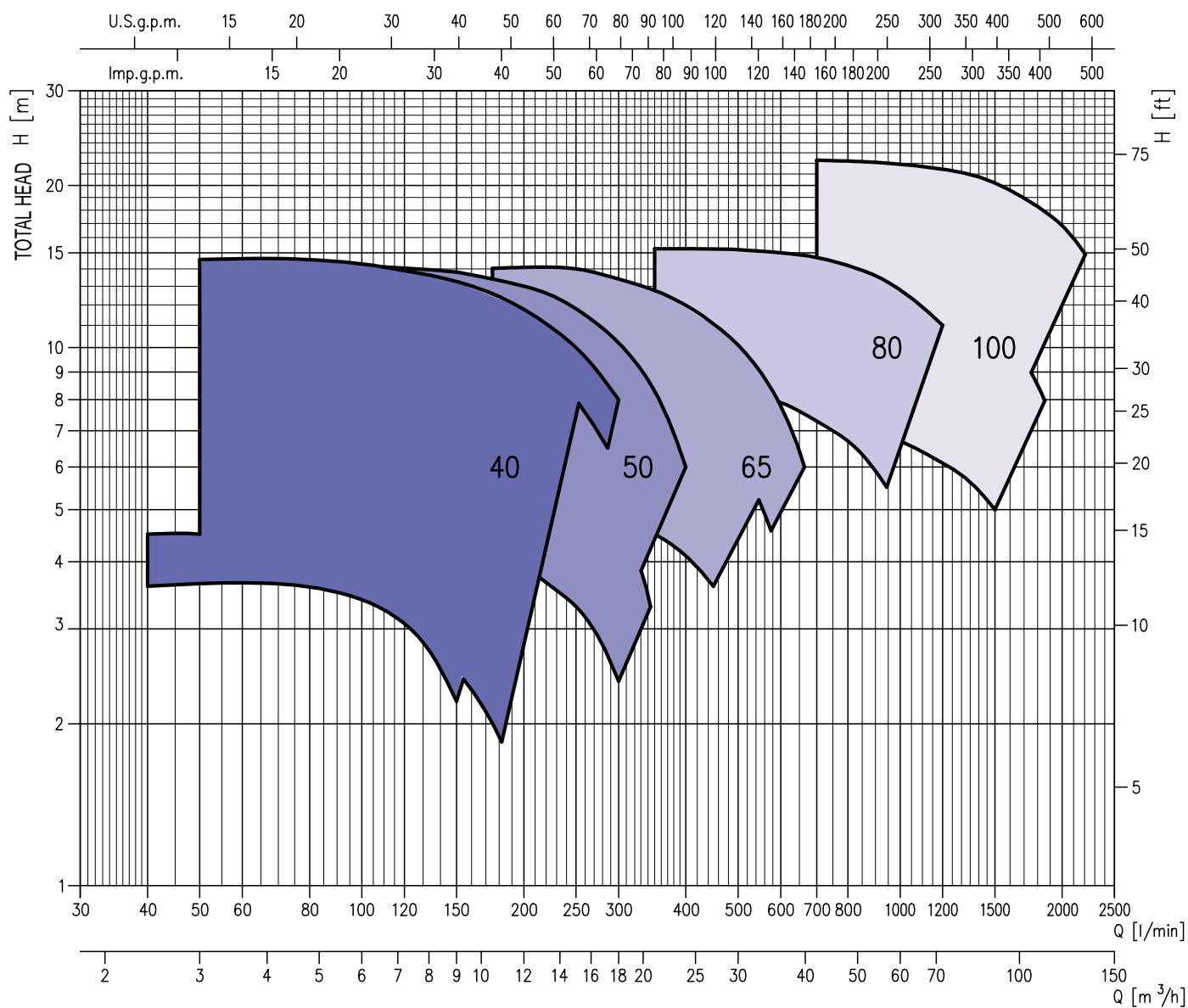
Right pump in operation



Parallel operation

## PERFORMANCE CHART LPC4 series

4 POLES

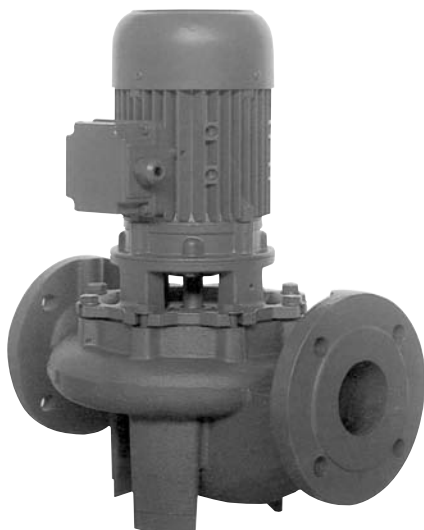


R.P.M.  $\approx 1450 \text{ min}^{-1}$   
 Fluid test: clean water 20°C  
 Applicable standard: UNI EN ISO 9906 Annex A

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

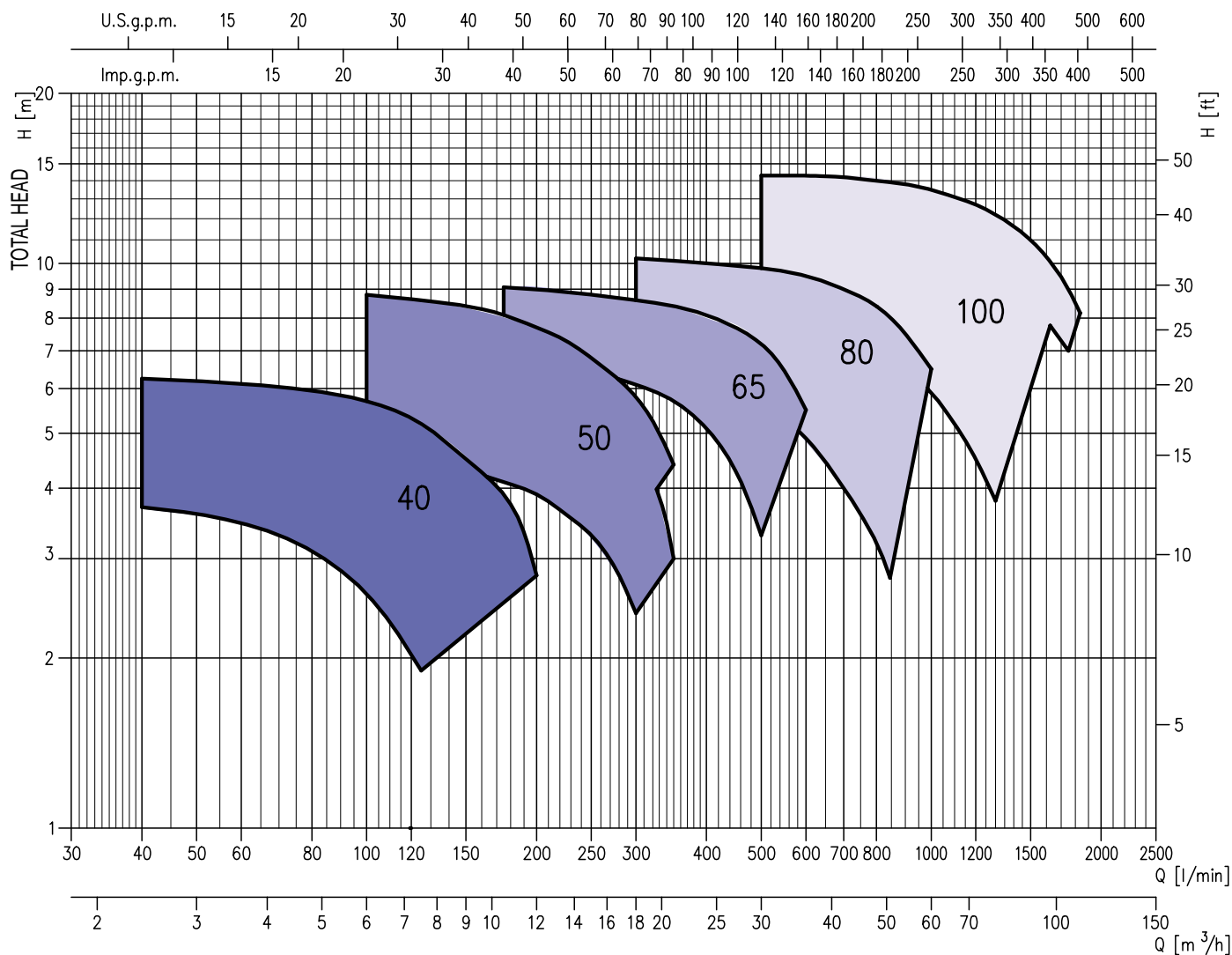
4 POLES

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 [m]																														
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

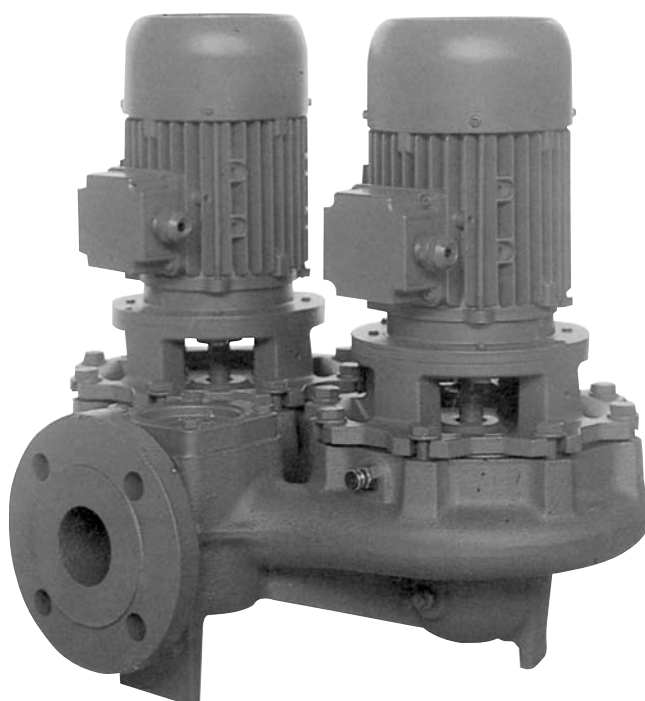


R.P.M.  $\approx 1450 \text{ min}^{-1}$   
 Fluid test: clean water 20°C  
 Applicable standard: UNI EN ISO 9906 Annex A

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

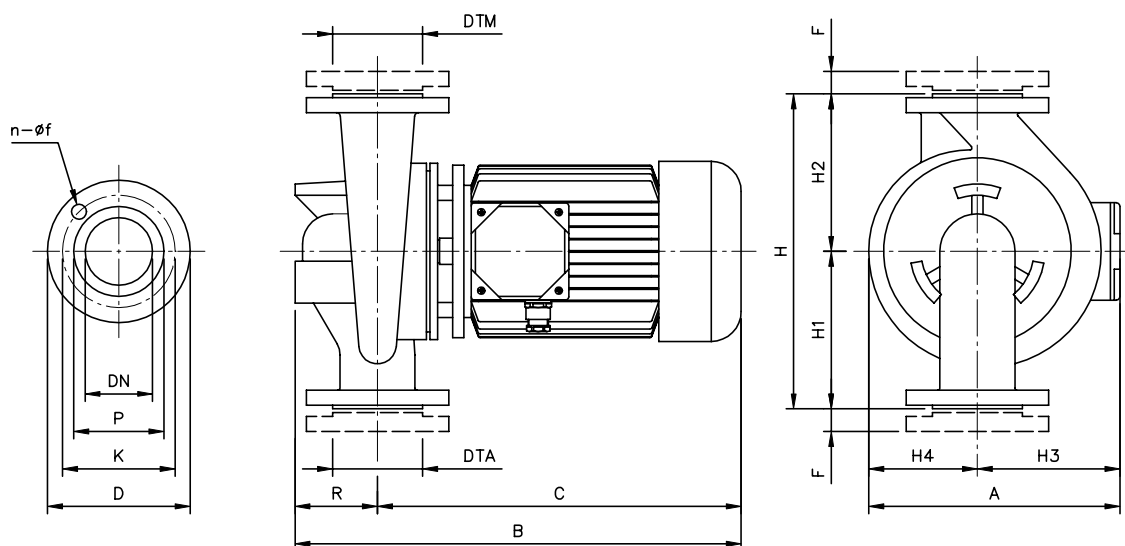
4 POLES

Pump type	Motor		Q=Capacity																											
	kW	HP	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
			H=Total head [m]																											
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 DIMENSIONS

## 2 POLES

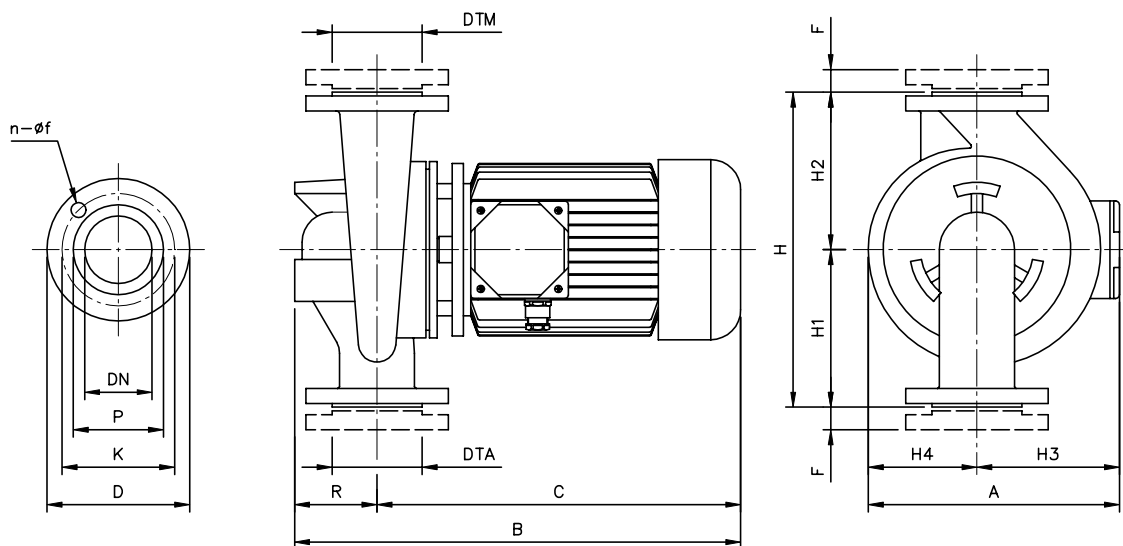


## DIMENSIONAL TABLE

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 1/2	40PN6	4	14	80	100	130	260	140	120	107	77	90	16	184	445	335	16
LPC 40-100/0.75	G1 1/2	40PN6	4	14	80	100	130	260	140	120	107	77	90	16	184	445	335	16
LPC 40-125/0.75	G1 1/2	40PN10	4	18	88	110	150	300	160	140	107	93	100	20	200	425	325	24
LPC 40-125/1.1	G1 1/2	40PN10	4	18	88	110	150	300	160	140	118	93	100	20	211	445	345	25
LPC 40-125/1.5	G1 1/2	40PN10	4	18	88	110	150	300	160	140	118	93	100	20	211	445	345	26
LPC 40-160/2.2	G1 1/2	40PN10	4	18	88	110	150	320	170	150	118	108	100	20	226	445	345	30
LPC 40-160/3.0	G1 1/2	40PN10	4	18	88	110	150	320	170	150	149	108	100	20	257	485	385	35
LPC 40-160/4.0	G1 1/2	40PN10	4	18	88	110	150	320	170	150	149	108	100	20	257	485	385	37
LPC 40-200/4.0	G1 1/2	40PN10	4	18	88	110	150	380	200	180	159	127	100	20	286	525	425	50
LPC 40-200/5.5	G1 1/2	40PN10	4	18	88	110	150	380	200	180	159	127	100	20	286	535	435	55
LPC 40-200/6.3	G1 1/2	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 DIMENSIONS

## 2 POLES



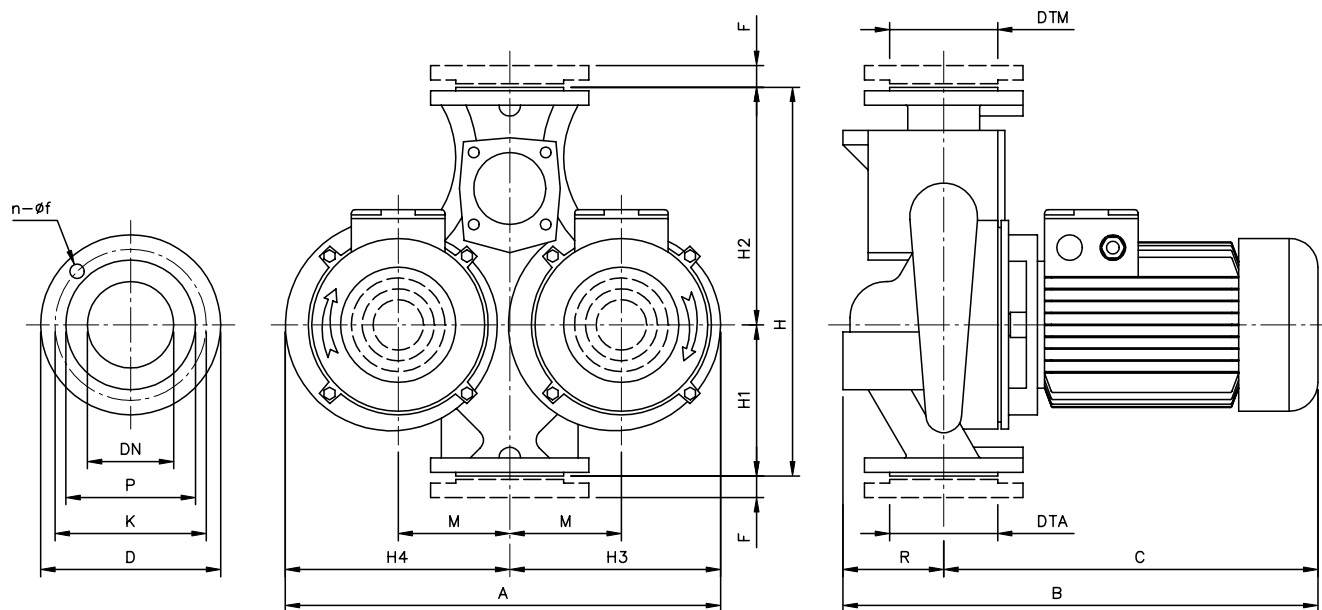
### DIMENSIONAL TABLE

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 ½	65PN10	4	18	122	145	185	360	205	155	118	108	140	22	226	485	345	32
LPC 65-125/3.0	G2 ½	65PN10	4	18	122	145	185	360	205	155	149	108	140	22	257	525	385	39
LPC 65-125/4.0	G2 ½	65PN10	4	18	122	145	185	360	205	155	159	108	140	22	267	565	425	43
LPC 65-160/5.5	G2 ½	65PN10	4	18	122	145	185	400	220	180	159	122	140	22	281	575	435	54
LPC 65-160/7.5	G2 ½	65PN10	4	18	122	145	185	400	220	180	184	122	140	22	306	680	540	61
LPC 65-200/10	G2 ½	65PN10	4	18	122	145	185	440	240	200	184	136	140	22	320	680	540	70
LPC 65-200/12.5	G2 ½	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 DIMENSIONS

2 POLES

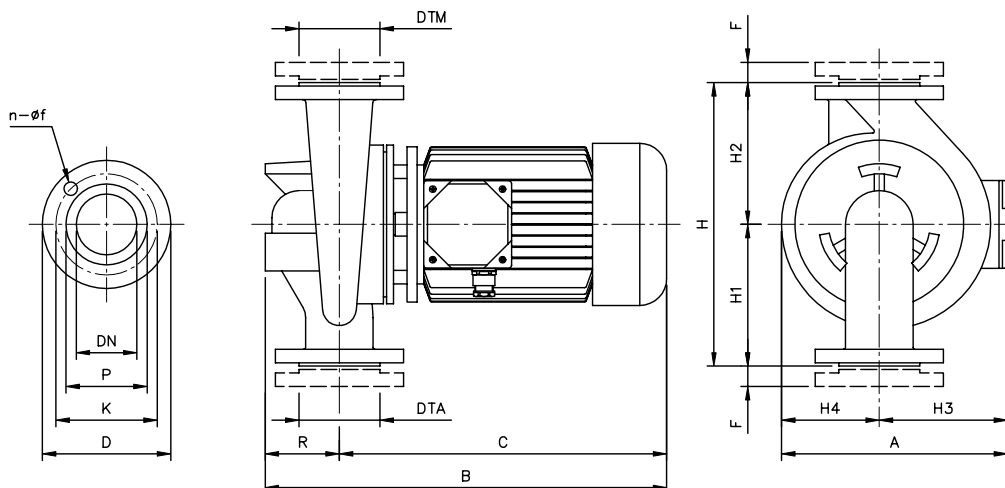


## DIMENSIONAL TABLE

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 1/2	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	50
LPCD 40-125/0.75	G1 1/2	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	50
LPCD 40-125/1.1	G1 1/2	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	445	345	52
LPCD 40-125/1.5	G1 1/2	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 1/2	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	515	385	81
LPCD 65-160/4.0	G2 1/2	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	555	425	101
LPCD 65-160/5.5	G2 1/2	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	565	435	125
LPCD 65-160/7.5	G2 1/2	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 DIMENSIONS

## 4 POLES

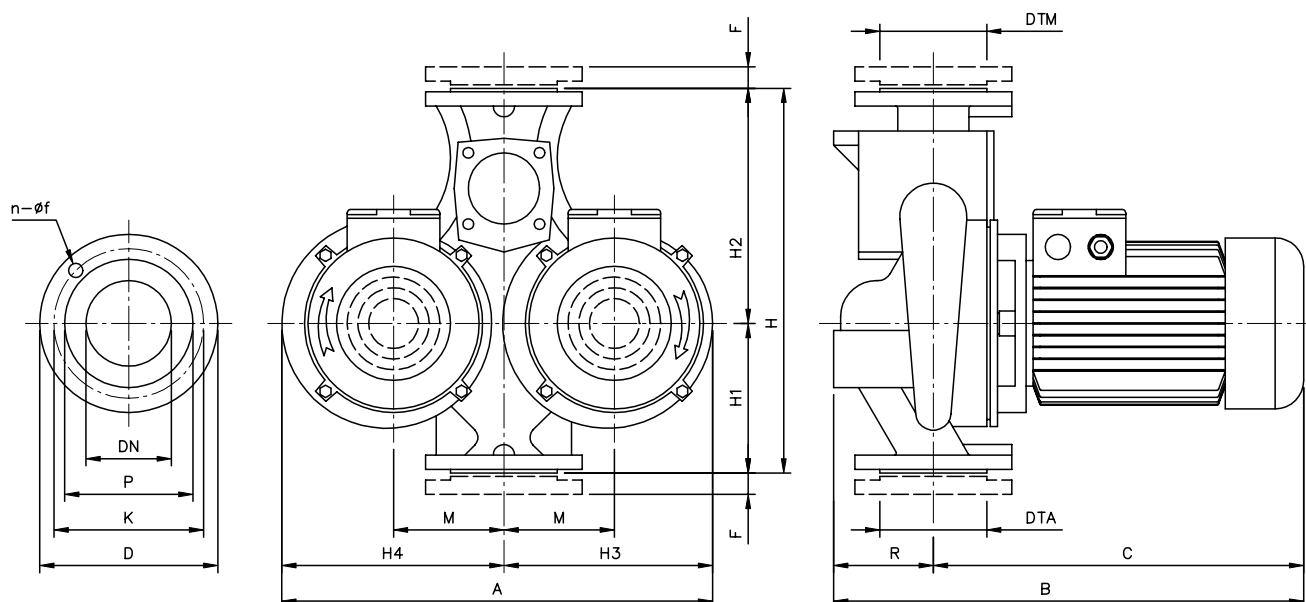


## DIMENSIONAL TABLE

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 DIMENSIONS

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 1/2	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	41
LPCD4 40-125/0.25R	G1 1/2	40PN10	4	18	88	110	150	340	130	210	197	200	100	100	20	397	425	325	41
LPCD4 40-125/0.25	G1 1/2	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 1/2	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	475	345	65
LPCD4 65-160/0.75	G2 1/2	65PN10	4	18	122	145	185	450	180	270	268	275	140	130	22	543	475	345	65
LPCD4 65-160/0.92	G2 1/2	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 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

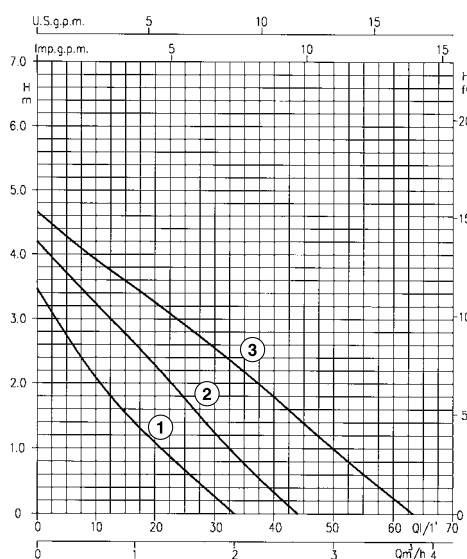
With water at 90°C a minimum inlet pressure of 1,5 mt. must be guaranteed in order to avoid cavitation troubles.

Available in the following versions:

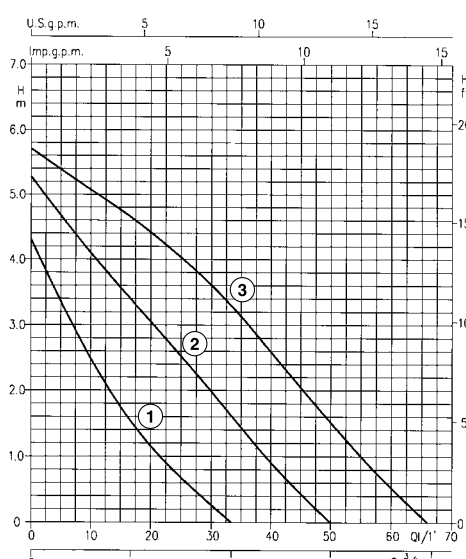
- mm.130 with 1" and 1 1/2" pipe male connection with 2 gaskets
- mm.180 with 1 1/2" and 2" pipe male connection with 2 gaskets
- mm.120 flanged, with 2 gaskets and bolts

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

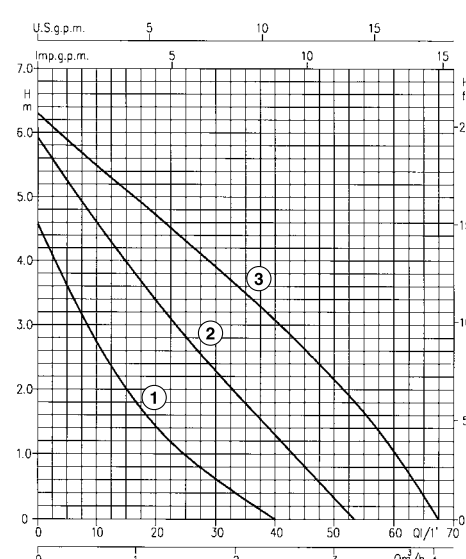
### MR 43



### MR 53



### MR 63



*In-line pumps with motor mounted directly onto the pump body and provided with multi-speed regulator giving greater flexibility. It allows the pump to be more accurately matched to the system's hydraulic requirements and reduces flows velocity noise and also reduces power consumption. Suitable for domestic and industrial heating systems and secondary hot water applications.*



### SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature:  $-15^{\circ}\text{C} \div +120^{\circ}\text{C}$

### MATERIALS

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

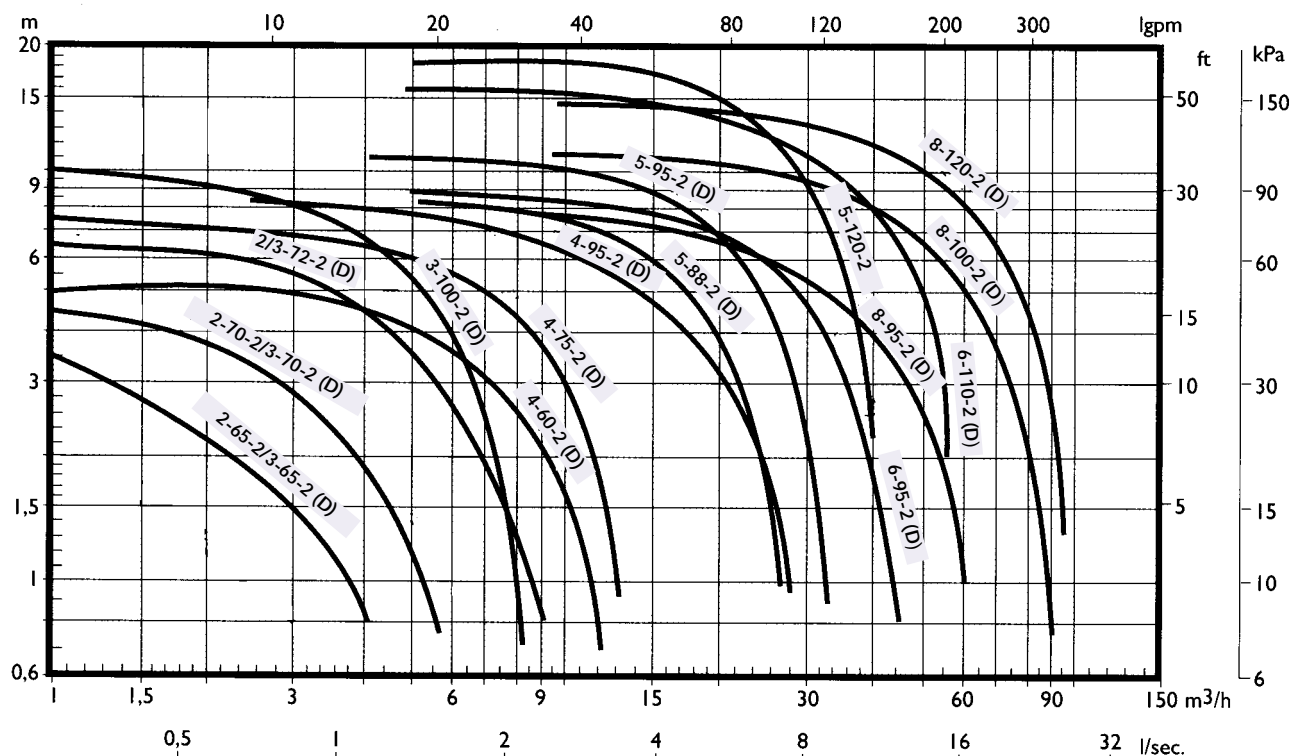
### TECHNICAL DATA

- 3 speed motor with regulator on the terminal box
  - Insulation class F, IP 44
  - 1~230V 50Hz, 3~ 400V $\pm 6\%$  -10%, 50 Hz
- With water at  $90^{\circ}\text{C}$  a minimum inlet pressure of 1,5 m must be guaranteed in order to avoid cavitation troubles.

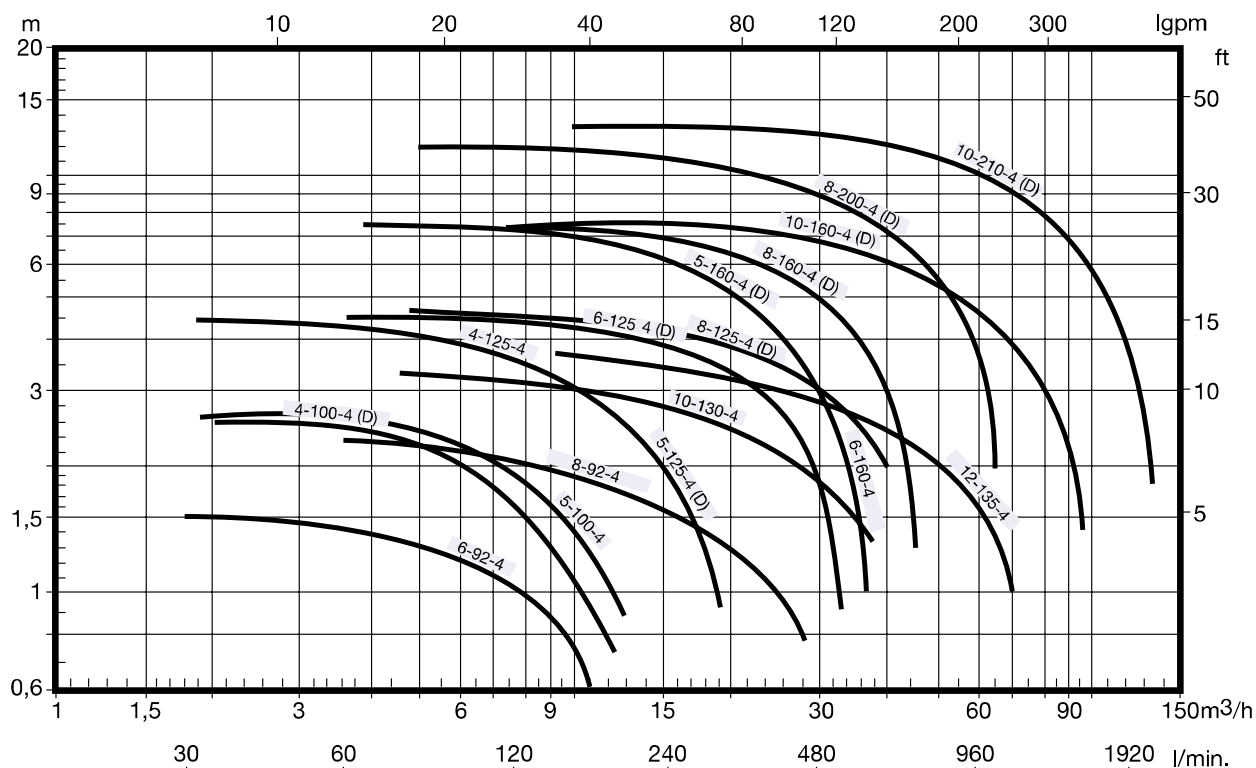
Available in the following versions:

- mm.130 with 1" and 1 $\frac{1}{4}$ " pipe male connection with 2 gaskets
- mm.180 with 1 $\frac{1}{4}$ " and 2" pipe male connection with 2 gaskets
- mm.120 flanged, with 2 gaskets and bolts

### PERFORMANCE CHART at 2800 min<sup>-1</sup> (according to ISO 9906 Annex A)



### PERFORMANCE CHART at 1400 min<sup>-1</sup> (according to ISO 9906 Annex A)



*In-line pumps with motor mounted directly onto the pump body and provided with integrated electronic speed control giving greater flexibility. It allows the pump to be more accurately matched to the system's hydraulic requirements and reduces flows velocity noise and also reduces power consumption. Suitable for domestic and industrial heating systems.*



### SPECIFICATIONS

- Maximum working pressure: 10 bar
- Maximum liquid temperature:  $+15^{\circ}\text{C} \div +120^{\circ}\text{C}$
- Maximum viscosity:  $10 \text{ mm}^2/\text{s}$  (10 cst)

### MATERIALS

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

### TECHNICAL DATA

- Insulation class F, IP 44
  - 1~230V, 3~400V ( $\pm 10\%$ ) 50Hz
- Electronic overload protection incorporated.  
(single and twin versions available)





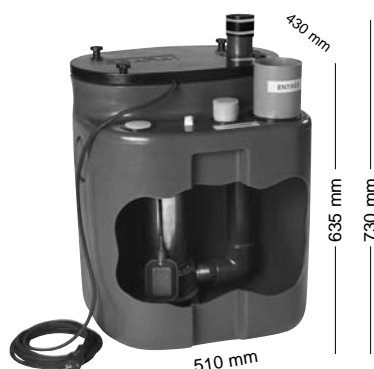
### **BEST BOX** (Shower and Washbasin version)

- Predisposed to pump type Best one
- Free passage: 10 mm
- Outlet diam. 1<sup>1</sup>/<sub>4</sub>"
- Tank capacity: 30 l
- Weight without pump: 8,5 kg



### **BEST BOX** (Garage version)

- Predisposed to pump type Best one Vox
- Free passage: 20 mm
- Outlet diam. 1<sup>1</sup>/<sub>4</sub>"
- Tank capacity: 30 l
- Weight : 125 kg



### **MINI RIGHT**

- Predisposed to pump type Right series
- Free passage: 35 mm
- Outlet diam. 50 mm
- Tank capacity: 100 l
- Weight: 26 kg



### **SANIRELEV 11**

- Predisposed to pump type DW or DW VOX
- Free passage: 50 mm
- Outlet diam. DN50/DN63
- Tank capacity: 360 l
- Weight: 21,5 kg

**Sanirelev 11 MSA:** single-phase, support and float switch

**Sanirelev 11 MPA:** single-phase, foot bracket and float switch

**Sanirelev 11 MSC:** single-phase, support, panel and float switch

**Sanirelev 11 MPC:** single-phase, foot bracket, panel and float switch

**Sanirelev 11 TSC:** three-phase, support, panel and float switch

**Sanirelev 11 TPC:** three-phase, foot bracket, panel and float switch



### **SANIRELEV 22**

- Predisposed to two pumps type DW or DW VOX
- Free passage: 50 mm
- Outlet diam. DN50/DN63
- Tank capacity: 540 l
- Weight: 30 kg

**Sanirelev 22 MPC:** single-phase, foot bracket, panel and float switch

**Sanirelev 22 TPC:** three-phase, foot bracket, panel and float switch





*Automatic booster units constructed from one single-phase pump, pressure vessel.*

*Fitted with non return valve*

*Pressure Switch*

*Pressure gauge*

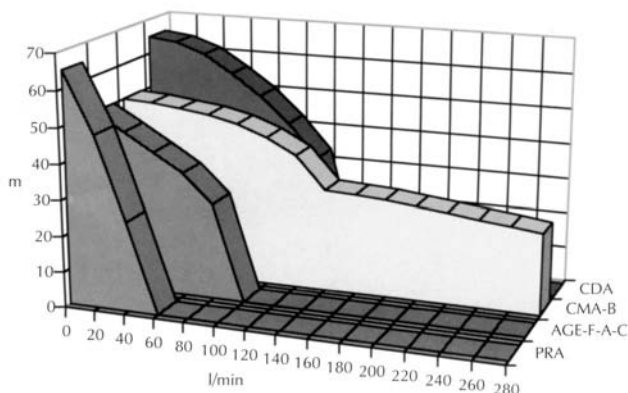
- Ready for installation by a suitably qualified tradesman.
- Package Sewage Stations
- Standard units available with inlet & outlets locations to suit the applications - installation parameters.



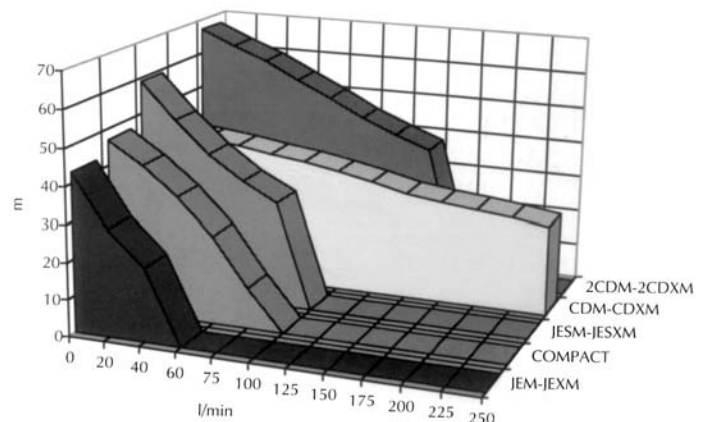
Booster can be built with all Ebara single-phase pumps of the following series:

- CD-2CD
- CDX-2CDX
- JES-JE
- JESX-JEX
- COMPACT
- AGA-AGC-AGE-AGF
- CMA-CMB-CDA

### PERFORMANCE CURVES



### PERFORMANCE CURVES





Note: tanks optional

*Complete automatic pressure sets provided of several pump models, adapted for centrifugal, multistage horizontal, vertical centrifugal pumps.*

For any information, please contact our sales dept.

### PERFORMANCE CHART

For complete technical and performance datas of the complete range: request the wide "Pressure Booster sets" catalogue



## TYPE 1EP 0,37-2,2 kW M (CE)

Protection IP 55

Control box for single-phase surface electropumps, submersible one and, using a capacitor, borehole electropumps.

Auxiliary circuits at low voltage, possibility to check the level by probes, float switches or pressure switch. Amperometric protection regulation. The UA version is supplied with remote alarm outlet.

### Single-phase 230 V - 50 Hz

Pump type	HP	kW	Amperometric protection regulation
1 EP 0,37-2,2 kW UAM	0,5-3	0,37-2,2	0 - 18 A

## TYPE 1EP TUA (CE)

Protection IP 55

Control boxes for three-phase surface electropumps, submersible one and borehole ones.

Self-starting. Auxiliary circuits at low voltage, possibility to check the level by probes, float switches or pressure switch. Amperometric protection regulation. Soon it will be available with remote alarm outlet.

### Three-phase 400 V - 50 Hz

Pump type	HP	kW	Amperometric protection regulation
1EP 0,37-2,2 kW UA	0,5-3	0,37-2,2	2 - 8 A
1EP 3-7,5 kW UA	4-15	3-7,5	5 - 14 A
1EP 9,2-11 kW UA	12,5-15	9,2-11	18 - 22 A

## TYPE 1EP SD

Protection IP 55

Control box for three-phase surface electropumps, submersible one and borehole electropumps.

Star-delta starting, auxiliary circuits at low voltage, possibility to check the level by pressure switch (optional by probes). Soon it will be available with remote alarm outlet.

### Three-phase 400 V - 50 Hz

Pump type	HP	kW	Current	
			min. A	max A
1 EP 7,5 SD UA	10	7,5	15	18
1 EP 11 SD UA	15	10	18	23
1 EP 15 SD UA	20	15	24	35
1 EP 18,5 SD UA	25	18,5	35	45
1 EP 22 SD UA	30	22	35	52
1 EP 30 SD UA	40	30	49	66
1 EP 37 SD UA	50	37	75	85

## TYPE 2EP MUA (CE)

Protection IP 55

Control boxes for two single-phase surface electropumps or submersible ones.

Auxiliary circuits at low voltage, possibility to check the level by float switches or pressure switch. As standard version, they are with inverter to start the motors and with remote alarm outlet.

### Single-phase 230 V - 50 Hz

Pump type	HP	kW	Amperometric protection regulation
2EP 0,25M UA	0,34+0,34	0,25+0,25	3
2EP 0,37M UA	0,5+0,5	0,37+0,37	4
2EP 0,55M UA	0,75+0,75	0,55+0,55	6
2EP 0,75M UA	1+1	0,75+0,75	8
2EP 1,1M UA	1,5+1,5	1,1+1,1	10
2EP 1,5M UA	2+2	1,5+1,5	16
2EP 2,2M UA	3+3	2,2+2,2	18

## TYPE 2 EP TUA (CE)

Protection IP 55

Control boxes with self-starting for two three-phase surface electropumps or submersible ones. Auxiliary circuits at low voltage, possibility to check the level by the float switches or by the pressure switch.

As standard version, they are with inverter to start the motors and with remote alarm outlet.

### Three-phase 400 V - 50 Hz

Pump type	HP	kW	Current	
			min. A	max A
2EP 0,37T UA	0,5+0,5	0,37+0,37	0,9	1,3
2EP 0,55T UA	0,75+0,75	0,55+0,55	1,4	1,9
2EP 0,75T UA	1+1	0,75+0,75	2	3
2EP 1,1T UA	1,5+1,5	1,1+1,1	2	3
2EP 1,5T UA	2+2	1,5+1,5	3	3,9
2EP 2,2T UA	3+3	2,2+2,2	4,5	5,8
2EP 3,7T UA	5+5	3,7+3,7	6	8
2EP 5,5T UA	7,5+7,5	5,5+5,5	9	13,5
2EP 7,5T UA	9,5+9,5	7+7	14	18
2EP 11T UA	15+15	11+11	17	22
2EP 13,5T UA	18,3+18,3	13,5+13,5	20	29

## TYPE 2 EP SD UA

Protection IP 55

Control boxes with star-delta starting for two three-phase surface electropumps or submersible ones.

Auxiliary circuits at low voltage, possibility to check the level by float switches or pressure switch.

As standard version they are with inverter to start the motors and with remote alarm outlet.

### Three-phase 400 V - 50 Hz

Pump type	HP	kW	Current	
			min. A	max A
2EP 7,5 SD UA	10	7,5	15	18
2EP 9,25 SD UA	12,5	9,2	17	20
2EP 11 SD UA	15	11	18	23
2EP 15 SD UA	20	15	24	35
2EP 18,5 SD UA	25	18,5	27	40
2EP 22 SD UA	30	22	35	52

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	6	1.6	0.54	0.25	0.13	0.06	0.03	0.02																			
	Vm/s	1.70	1.03	0.67	0.43	0.29	0.22	0.16	0.13	0.10																			
6	Pc %		24	6	2	0.9	0.43	0.21	0.13	0.08	0.026																		
	Vm/s		2.06	1.34	0.85	0.58	0.44	0.32	0.26	0.20	0.13																		
9	Pc %			12.5	4.3	1.8	0.9	0.46	0.25	0.15	0.06																		
	Vm/s			2.08	1.32	0.89	0.65	0.5	0.39	0.32	0.20																		
12	Pc %			20	7	3.2	1.5	0.75	0.44	0.25	0.09	0.03																	
	Vm/s			2.76	1.76	1.19	0.88	0.67	0.53	0.43	0.27	0.18																	
15	Pc %				12	5.2	2.4	1.25	0.7	0.42	0.15	0.06																	
	Vm/s				2.2	1.49	1.1	0.87	0.66	0.54	0.34	0.24																	
18	Pc %				17	7	3.5	1.7	1	0.6	0.2	0.08																	
	Vm/s				2.64	1.78	1.3	1	0.78	0.64	0.4	0.28																	
21	Pc %				22	8.8	4.2	2.2	1.3	0.75	0.26	0.1	0.05																
	Vm/s				3.35	2.08	1.54	1.17	0.93	0.75	0.48	0.32	0.24																
24	Pc %					12	5.7	3	1.7	1	0.36	0.14	0.07																
	Vm/s					2.38	1.76	1.34	1.06	0.86	0.54	0.36	0.28																
27	Pc %					14	7	3.5	2	1.25	0.42	0.17	0.08																
	Vm/s					2.7	1.97	1.45	1.17	0.96	0.6	0.42	0.31																
30	Pc %					17	8.2	4.2	2.5	1.5	0.5	0.2	0.09																
	Vm/s					2.98	2.2	1.74	1.32	1.08	0.68	0.48	0.34																
36	Pc %					25	12	6.3	3.5	2	0.75	0.3	0.14	0.07															
	Vm/s					3.58	2.63	2	1.58	1.28	0.82	0.57	0.42	0.32															
42	Pc %						16	8.5	4.5	2.7	0.85	0.33	0.18	0.08															
	Vm/s						3.07	2.34	1.85	1.5	0.96	0.66	0.48	0.37															
48	Pc %						21	10	6	3.6	1.2	0.45	0.22	0.12	0.06														
	Vm/s						3.51	2.68	2.12	1.72	1.08	0.72	0.56	0.43	0.34														
54	Pc %						25	13.5	7.6	4.5	1.5	0.55	0.28	0.14	0.08														
	Vm/s						3.94	3	2.34	1.92	1.2	0.84	0.63	0.48	0.38														
60	Pc %							16	9	5.5	1.8	0.7	0.33	0.17	0.1														
	Vm/s							3.32	2.64	2.16	1.36	0.96	0.68	0.53	0.42														
75	Pc %							24	14	8	2.76	1	0.49	0.24	0.14	0.08													
	Vm/s							4.17	3.31	2.68	1.72	1.18	0.87	0.67	0.53	0.43													
90	Pc %								20	12.5	3.8	1.45	0.74	0.36	0.2	0.14	0.08												
	Vm/s								3.97	3.24	2.04	1.44	1.02	0.8	0.63	0.51	0.42												
105	Pc %								26	16.5	5.3	1.95	0.9	0.47	0.27	0.16	0.1												
	Vm/s								4.6	3.74	2.41	1.66	1.22	0.93	0.74	0.59	0.49												
120	Pc %									21.5	6.9	2.6	1.2	0.61	0.36	0.2	0.14	0.08											
	Vm/s									4.31	2.72	1.93	1.35	1.06	0.84	0.68	0.56	0.47											
135	Pc %									26	9	3.3	1.5	0.76	0.45	0.25	0.17	0.1											
	Vm/s									4.81	1.07	2.13	1.56	1.19	0.95	0.76	0.63	0.53											
150	Pc %										11	4	1.9	0.95	0.55	0.3	0.21	0.12	0.06										
	Vm/s										3.44	2.36	1.74	1.34	1.05	0.86	0.70	0.59	0.43										
165	Pc %										13	4.7	2.2	1.13	0.65	0.37	0.24	0.15	0.08										
	Vm/s										3.75	2.61	1.91	1.46	1.15	0.94	0.77	0.65	0.48										
180	Pc %										15.2	5.5	2.6	1.3	0.76	0.43	0.29	0.18	0.09										
	Vm/s										4.09	2.83	2.08	1.59	1.26	1.02	0.84	0.71	0.52										
210	Pc %										21	7.4	3.5	1.8	1.1	0.6	0.37	0.24	0.12	0.06									
	Vm/s										4.70	3.32	2.43	1.86	1.49	1.19	0.98	0.82	0.61	0.47									
240	Pc %											9.4	4.3	2.3	1.3	0.75	0.48	0.3	0.15	0.08									
	Vm/s											3.78	2.77	2.12	1.68	1.36	1.12	0.95	0.69	0.53									
270	Pc %											12	5.5	2.8	1.62	0.9	0.58	0.35	0.18	0.09									
	Vm/s											4.26	3.13	2.39	1.90	1.53	1.26	1.07	0.78	0.59									
300	Pc %											14	7.5	3.4	2	1.1	0.74	0.46	0.22	0.11	0.07								
	Vm/s											4.75	3.47	2.66	2.10	1.71	1.40	1.18	0.86	0.67	0.53								
360	Pc %												9	4.7	2.8	1.6	1	0.65	0.32	0.16	0.09	0.05							
	Vm/s												4.15	3.17	2.53	2.04	1.68	1.41	1.04	0.79	0.63	0.51							
420	Pc %												11.6	6.2	3.5	2	1.3	0.82	0.41	0.21	0.12	0.07	0.03						
	Vm/s												4.86	3.72	2.94	2.37	1.96	1.64	1.22	0.94	0.76	0.59	0.41						
480	Pc %													8.5	4.9	2.9	1.9	1.2	0.6	0.3	0.17	0.09	0.04						
	Vm/s													4.24	3.36	2.72	2.24	1.90	1.38	1.06	0.84	0.69	0.47						
540	Pc %													11	6.5	3.7	2.35	1.52	0.75	0.38	0.22	0.12	0.05						
	Vm/s													4.78	3.80	3.06	2.52	2.13	1.56	1.19	0.94	0.76	0.53						
600	Pc %													12.2	7.4	4.3	2.7	1.7	0.9	0.45	0.25	0.13	0.055	0.024					
	Vm/s													5.30	4.20	3.40	2.81	2.36	1.73	1.34	1.06	0.86	0.61	0.44					
660	Pc %														9	5.2	3.3	2.1	1.1	0.54	0.3	0.16							



# CERTIFICATO

## EN ISO 9001:2000

**CERTIFICATO**  
**EN ISO 9001:2000**



certifica che l'azienda

 **EBARA**  
**EBARA PUMPS EUROPE S.p.A.**

**Settore:**  
Progettazione, costruzione, vendita e commercializzazione  
di pompe e sistemi di pompaggio

**Sede:**  
Via Pacinotti, 32 • I - 36040 Brendola (VI)  
(i siti elencati nell'appendice allegata sono inclusi nel presente certificato)

dispone di un sistema di gestione della qualità conforme alla norma menzionata  
(12/2000) e lo applica in modo efficace. La valutazione dell'audit di certificazione  
è documentata nella relazione di audit no. I-Q-0403166.

Data della prima  
certificazione: 04.07.2000

Questo certificato è  
valido fino al: 29.09.2006

Data del rinnovo: 30.09.2003

No. di registrazione: 30600520/1

Accreditato dal TGA nell'ambito  
del Deutschen Akkreditierungs Rat



Reg.Nr.: TGA-ZM-05-91-00



DEKRA-ITS Certification Services GmbH  
Stuttgart, il 30.09.2003

DEKRA-ITS Certification Services GmbH · Handwerkstraße 15 · D-70565 Stuttgart

Data della  
certificazione:

Questo certificato è  
valido fino al:

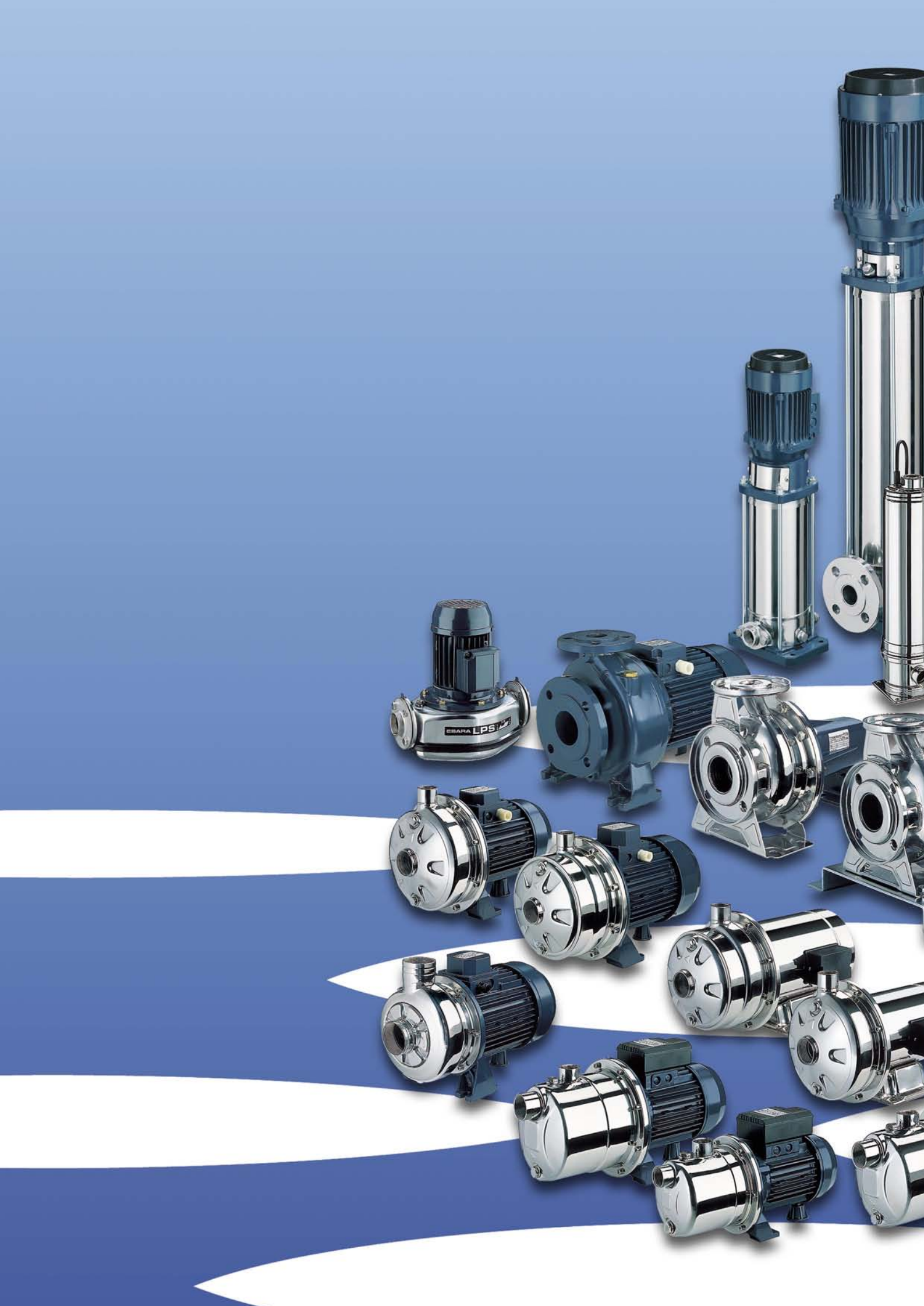
29.09.2006

Accreditato dal TGA nell'ambito  
del Deutschen Akkreditierungs Rat

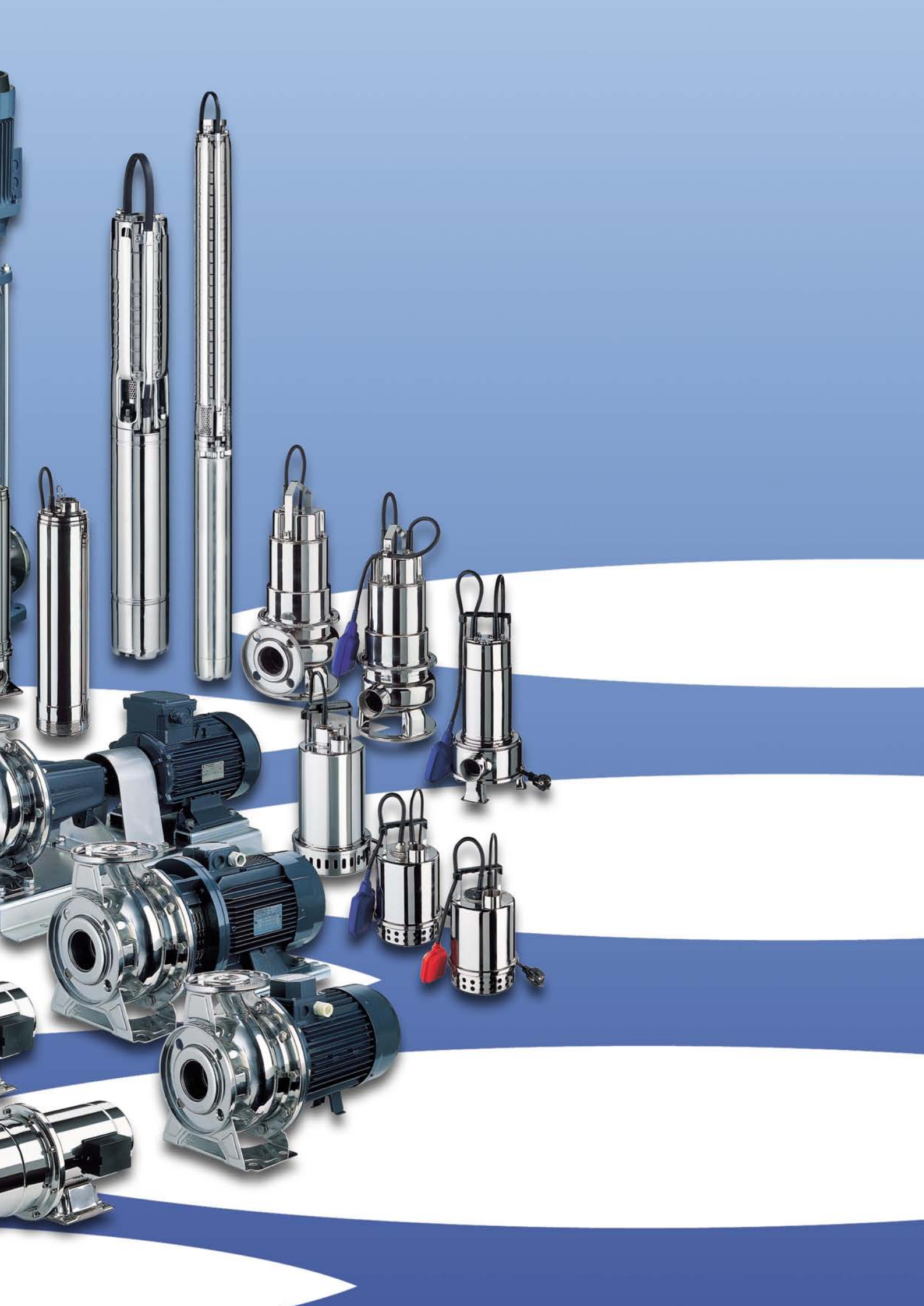


Reg.Nr.: TGA-ZM-05-91-00

DEKRA-ITS Certification Services GmbH  
Stuttgart, il 30.09.2003











## Principal EBARA Group Companies in Europe

### EBARA PUMPS EUROPE S.p.A.

Via Pacinotti, 32  
36040 BRENDOLA (VICENZA), Italy  
Phone: +39 0444 706811 - Fax: +39 0444 706950  
Plants: Cles, Brendola  
ebarapumps@ebaraeurope.com  
www.ebaraeurope.com

### EBARA PUMPS UK LIMITED

Unit 7 - Zodiac Park  
High Road - Cowley  
Uxbridge  
Middlesex UB8 2GU  
Phone: 01895 439027  
Fax: 01895 439028

### EBARA ESPAÑA BOMBAS S.A.

Poligono Las Arenas, C/Alameda, 1  
28320 PINTO (MADRID), Spain  
Phone: 916.923.630  
Fax: 916.923.891

### EBARA FRANCE

Z.I. des Amandiers 39 Rue des Entrepreneurs  
78420 CARRIERES-SUR-SEINE, France  
Phone: (1) 30865480  
Fax: (1) 39131971

### EBARA PUMPEN

Philipp-Reis - Str. 15  
63128 DIETZENBACH, Germany  
Phone: 6074/82790  
Fax: 6074/827942

### EBARA Pompy Polska Sp. z o.o.

ul. Minska 63  
03-828 Warszawa, Poland  
tel.: +48 22 3308118  
Fax.: +48 22 3308119

### Italian Branches

#### EBARA BARI

Via Po, 3  
70026 MODUGNO (BA)  
Tel. 080/5320531 - Fax: 080/5320478

#### EBARA CAGLIARI

Via del Fangario, 29 - 09122 CAGLIARI  
Tel. 070/274281 - Fax: 070/253643

#### EBARA FIRENZE

Via del Pesco, 15 Loc. La Querce  
59100 PRATO  
Tel. 0574/514175 - Fax: 0574/700126

#### EBARA MILANO

Via Magenta, 77 - 20017 RHO (MI)  
Tel. 02/93507358/59 - Fax: 02/93507361

#### EBARA PALERMO

Via Don L. Sturzo, 181/183  
ZONA INDUSTRIALE - 90044 CARINI (PA)  
Tel. 091/8680840 - Fax: 091/8669790

#### EBARA PESCARA

Via Aterno, 31 - Z. Ind.le e Com.le  
66100 SAMBUCETO - S. GIOVANNI TEATINO (CH)  
Tel. 085/4465145 - Fax: 085/4465171

#### EBARA ROMA

Via E. Ferrari, 105  
00043 CIAMPINO (RM)  
Tel. 06/79341516 - Fax: 06/79341628

### Agenzie

#### CATANZARO

EUROSERVICE S.N.C.  
Tel. 0961 769015 - Fax 0961 61317

#### NAPOLI

DIVIERRE  
Tel. 081 2583654 - Fax 081 2508617

#### PADOVA

NEGRISOLO GIANNI  
Tel. 049 9900296 - Fax 049 9903539

#### PORDENONE

FOR-TEC  
Tel. 0434 957878 - Fax 0434 560343

#### GENOVA

NICOLOSI  
Tel. 010 322128 - Fax 010 322128