



EBARA

LPS

STAINLESS STEEL IN LINE CENTRIFUGAL PUMPS

NEW



LPS

EBARA is proud to introduce this new range of pumps totally made of Stainless Steel; it is a new and innovative version of a traditional IN-LINE centrifugal pump.

LPS is very versatile, particularly suitable to move liquids for heating systems; also the LPS is excellent for an IN-LINE installation, where space or quiet operation is a requirement.

APPLICATIONS

- Domestic and industrial heating systems.
- Sanitary hot-water circulation.
- Cooling and heating systems.
- Movimentation of low-pressure liquids.

MATERIALS

- Pump body-casing cover AISI 304 Stainless steel
- Shaft (in contact with liquid) AISI 303 Stainless steel
- Impeller. AISI 304 Stainless steel
- Motor bracket and motor casing Aluminium
- Elastomers NBR
- Mechanical seal Ceramic/Carbon/NBR

TECHNICAL DATA

PUMP

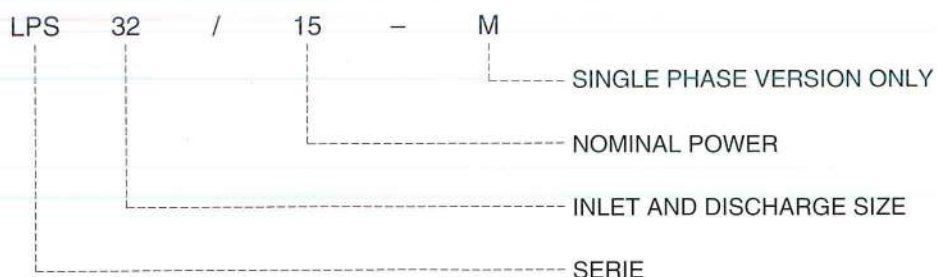
- Capacities from 1,2 to 24 m³/h
- Maximum head: 20,5 m
- Liquids: water and moderately aggressive chemical liquids without solids
- Max positive suction pressure:

LPS 25	max 2 bar
LPS 32-40-50	1~ max 2 bar 3~ max. 4 bar
- Liquid temperature: -10°C /+100°C
- Suction discharge flanges: PN 10 (standard counterflanges in forged steel, AISI 304 Stainless Steel counterflanges in option available)

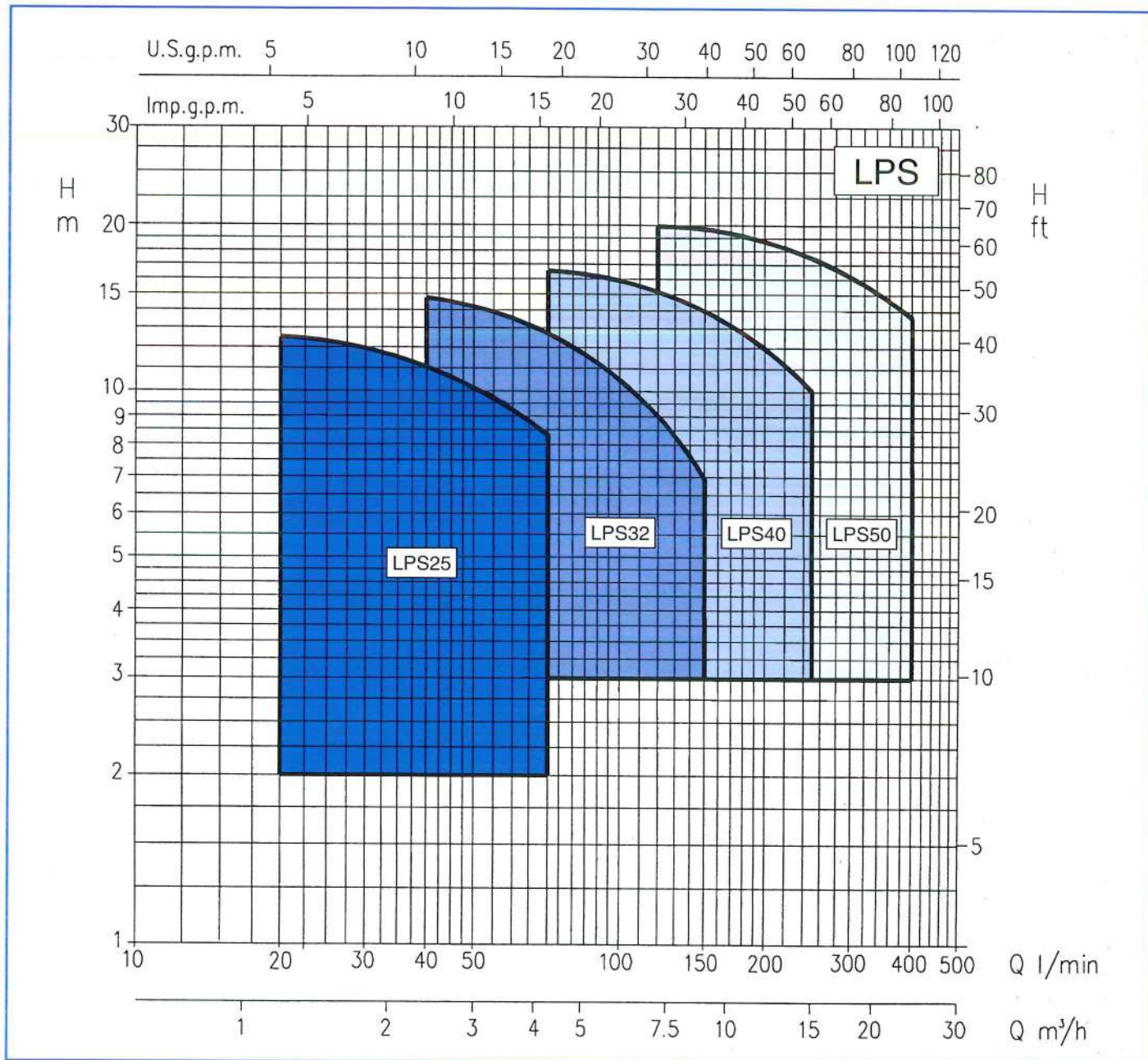
MOTOR

- Class F insulating
- Protection IP 55
- Continuous duty
- Single-phase version: 2 poles 230 V, 50 Hz, 3000 r.p.m. permanent split capacitor, Built-in overload protection with automatic reset.
- Three-phase version: 230/400 V, 50 Hz, 3000 r.p.m., Overload protection to be provided by the user.

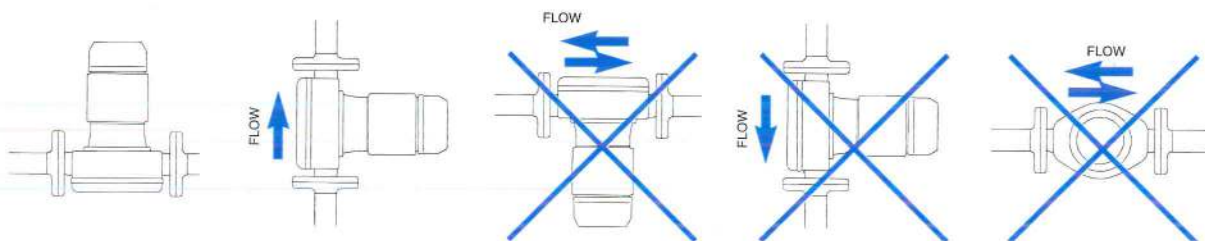
IDENTIFICATION CODE



SELECTION CHART

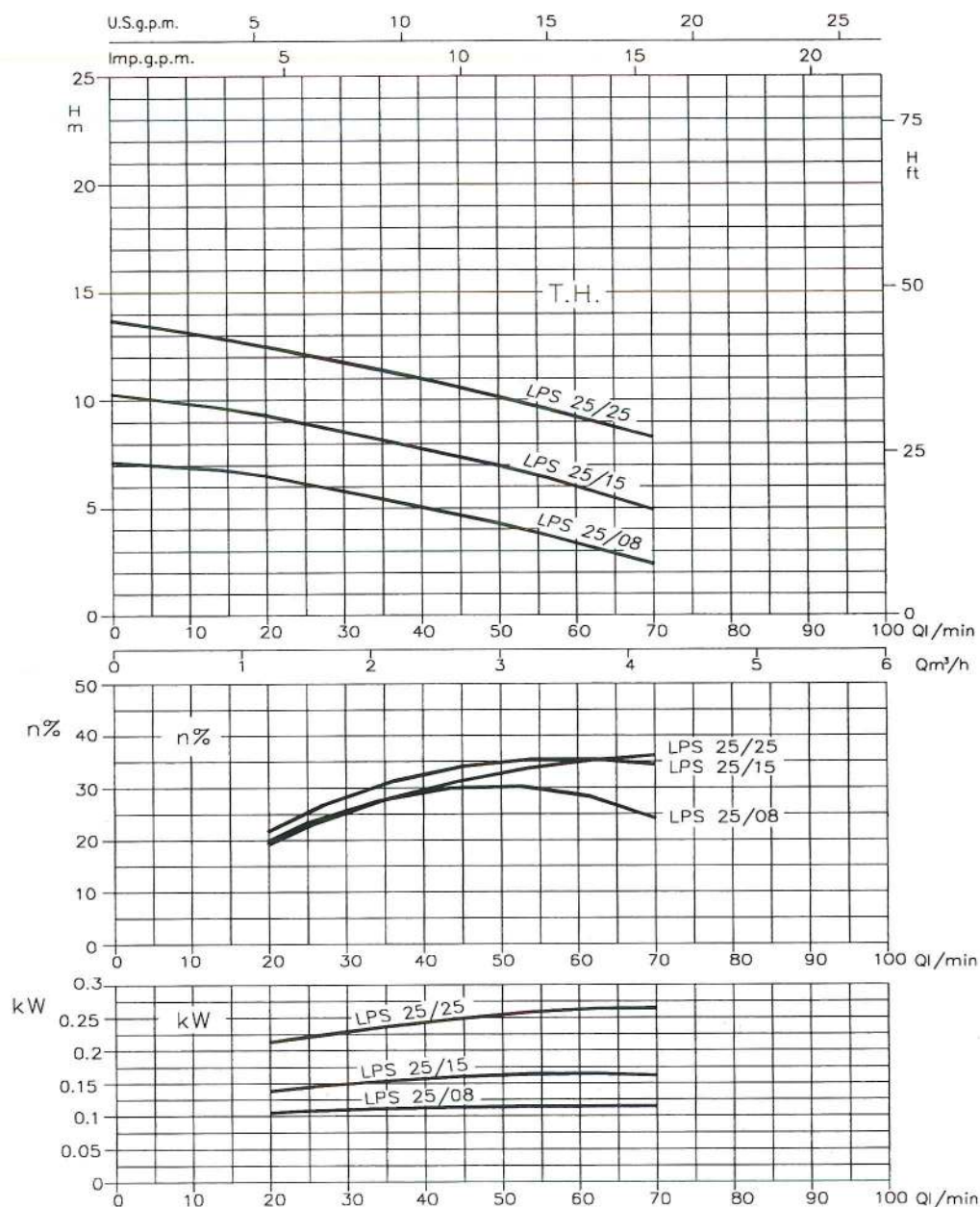


INSTALLATION OF THE PUMP



PERFORMANCE CURVES LPS 25

- Curves characteristics: 3000 r.p.m.
- Water test temperature: 20°C
- Performance limits: ISO 2458 for standard class C pumps.

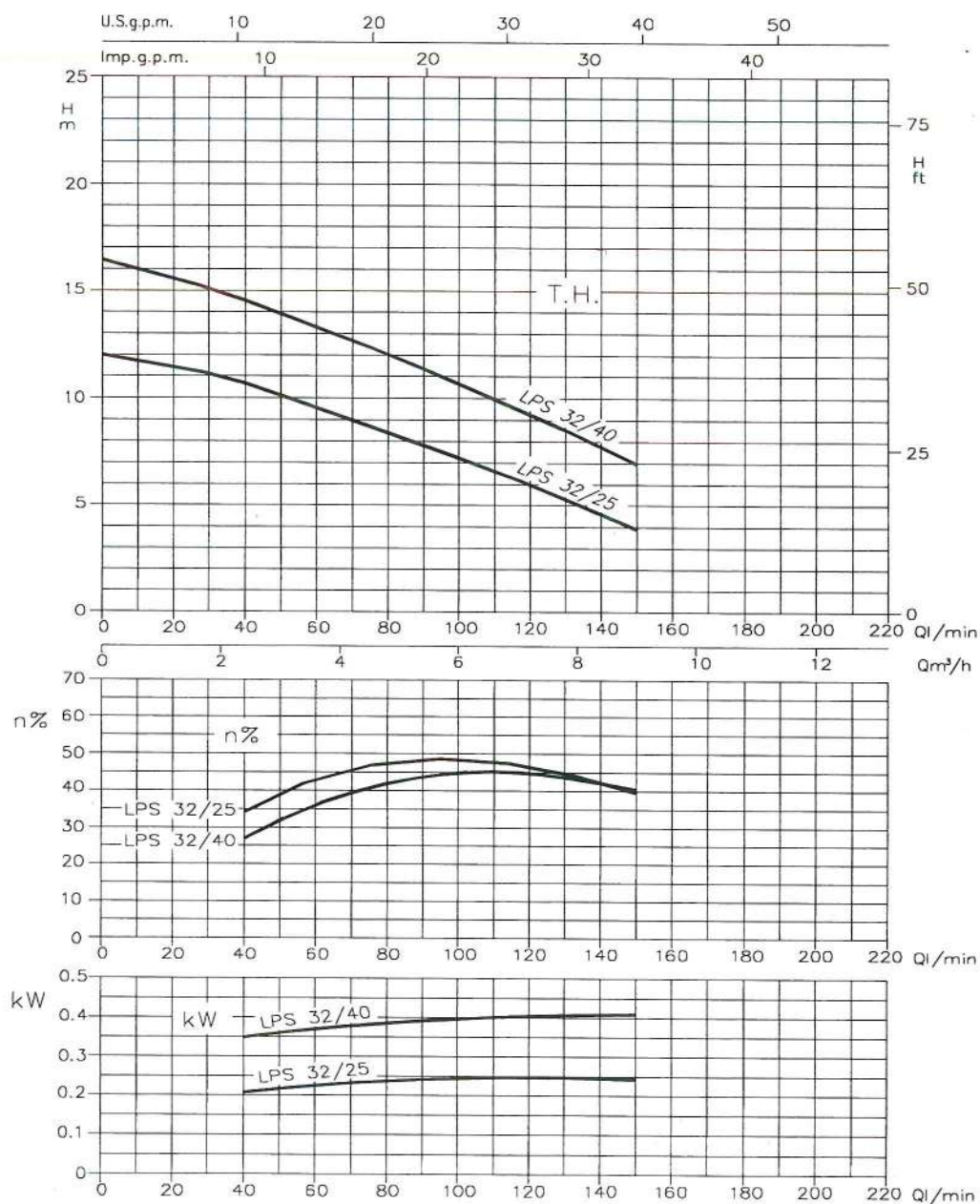


PERFORMANCE TABLE LPS 25

PUMP TYPE		OUTPUT		CAPACITOR		INPUT IN kW		FULL LOAD CURRENT IN Amp.			Q = CAPACITY										
1~	3~	kW	HP	1~							l/min	20	40	70	100	120	150	200	250	320	400
230 V 50 Hz	230-400 V 50 Hz			µF	VI	1~	3~	1~	3~		m³/h	0	2,4	4,2	6	7,2	9	12	15	19,2	24
											H = TOTAL MANOMETRIC HEAD IN METERS										
LPS 25/08M	LPS 25/08	0,08	0,1	12,5	450	0,29	0,27	1,51	1,7	1,01		6,5	5	2,4							
LPS 25/15M	LPS 25/15	0,15	0,2	12,5	450	0,34	0,33	1,67	1,8	1,03		9,3	7,8	4,9							
LPS 25/25M	LPS 25/25	0,25	0,33	12,5	450	0,45	0,44	2,04	1,9	1,11		12,5	11,1	8,4							

PERFORMANCE CURVES LPS 32

- Curves characteristics: 3000 r.p.m.
- Water test temperature: 20°C
- Performance limits: ISO 2458 for standard class C pumps.

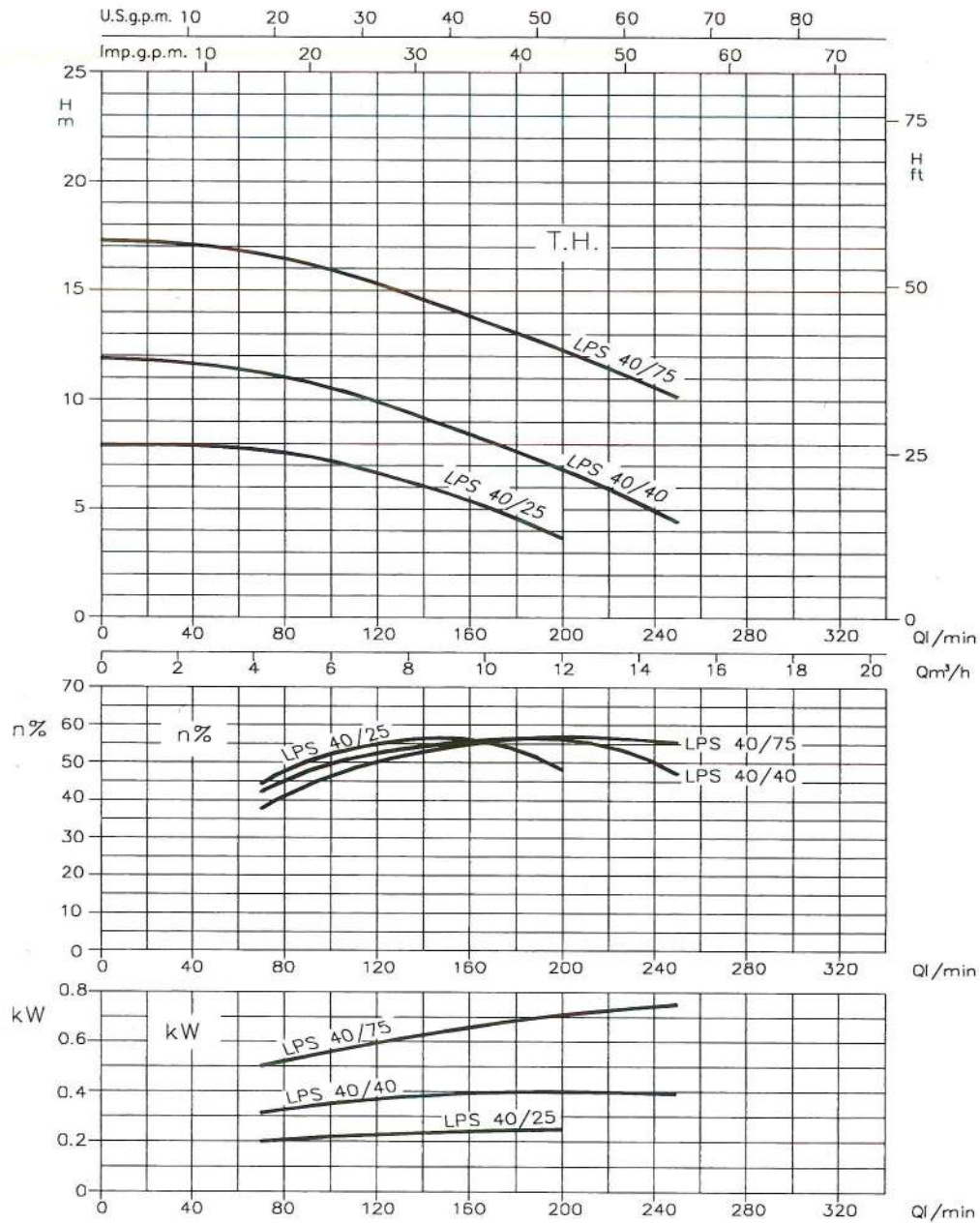


PERFORMANCE TABLE LPS 32

PUMP TYPE		OUTPUT		CAPACITOR		INPUT IN kW		FULL LOAD CURRENT IN Amp.			Q = CAPACITY											
1~	3~	kW	HP	1~							l/min	20	40	70	100	120	150	200	250	320	400	
50 Hz	50 Hz							230 V 400 V			m³/h	0	2,4	4,2	6	7,2	9	12	15	19,2	24	
											H = TOTAL MANOMETRIC HEAD IN METERS											
LPS 32/25M	LPS 32/25	0,25	0,33	12,5	450	0,43	0,41	2	1,8	1,03		10,7	9,1	7,2	5,9	3,9						
LPS 32/40M	LPS 32/40	0,4	0,55	12,5	450	0,62	0,63	2,74	2,2	1,25		14,5	12,7	10,6	9,2	7						

PERFORMANCE CURVES LPS 40

- Curves characteristics: 3000 r.p.m.
- Water test temperature: 20°C
- Performance limits: ISO 2458 for standard class C pumps.

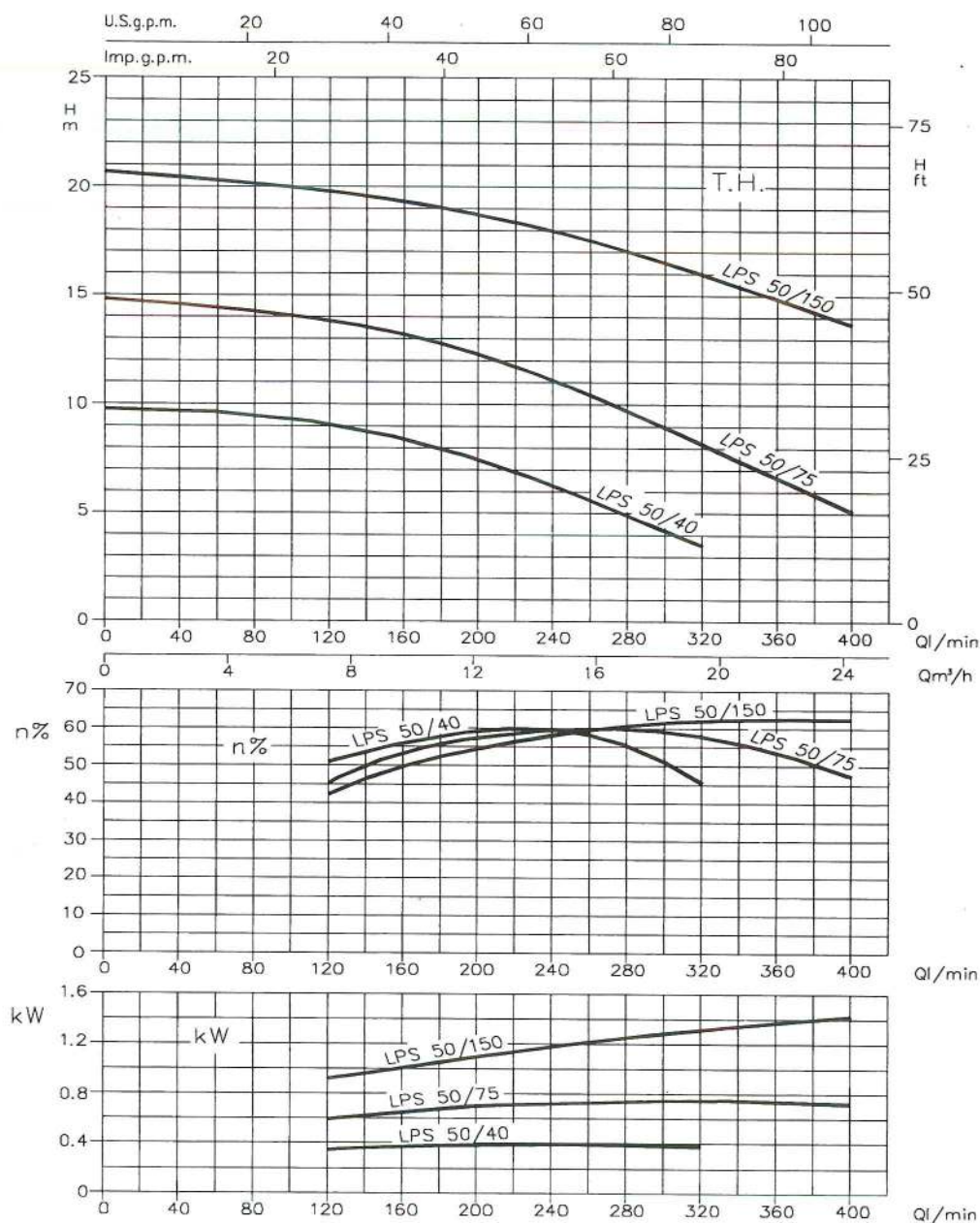


PERFORMANCE TABLE LPS 40

PUMP TYPE		OUTPUT		CAPACITOR		INPUT IN kW		FULL LOAD CURRENT IN Amp.			Q = CAPACITY										
1~	3~	kW	HP	1~							l/min	20	40	70	100	120	150	200	250	320	400
230 V 50 Hz	230-400 V 50 Hz			µF	VI	1~	3~	1~	3~		m³/h	0	2,4	4,2	6	7,2	9	12	15	19,2	24
H = TOTAL MANOMETRIC HEAD IN METERS																					
LPS 40/25M	LPS 40/25	0,25	0,33	12,5	450	0,43	0,42	1,98	1,9	1,09				7,8	7,1	6,6	5,6	3,7			
LPS 40/40M	LPS 40/40	0,4	0,55	12,5	450	0,62	0,63	2,75	2,2	1,25				11,3	10,4	9,5	8,7	6,9	4,4		
LPS 40/75M	LPS 40/75	0,75	1	25	450	1,07	1,04	4,86	4	2,29				16,6	16	15,2	14,1	12,3	10,1		

PERFORMANCE CURVES LPS 50

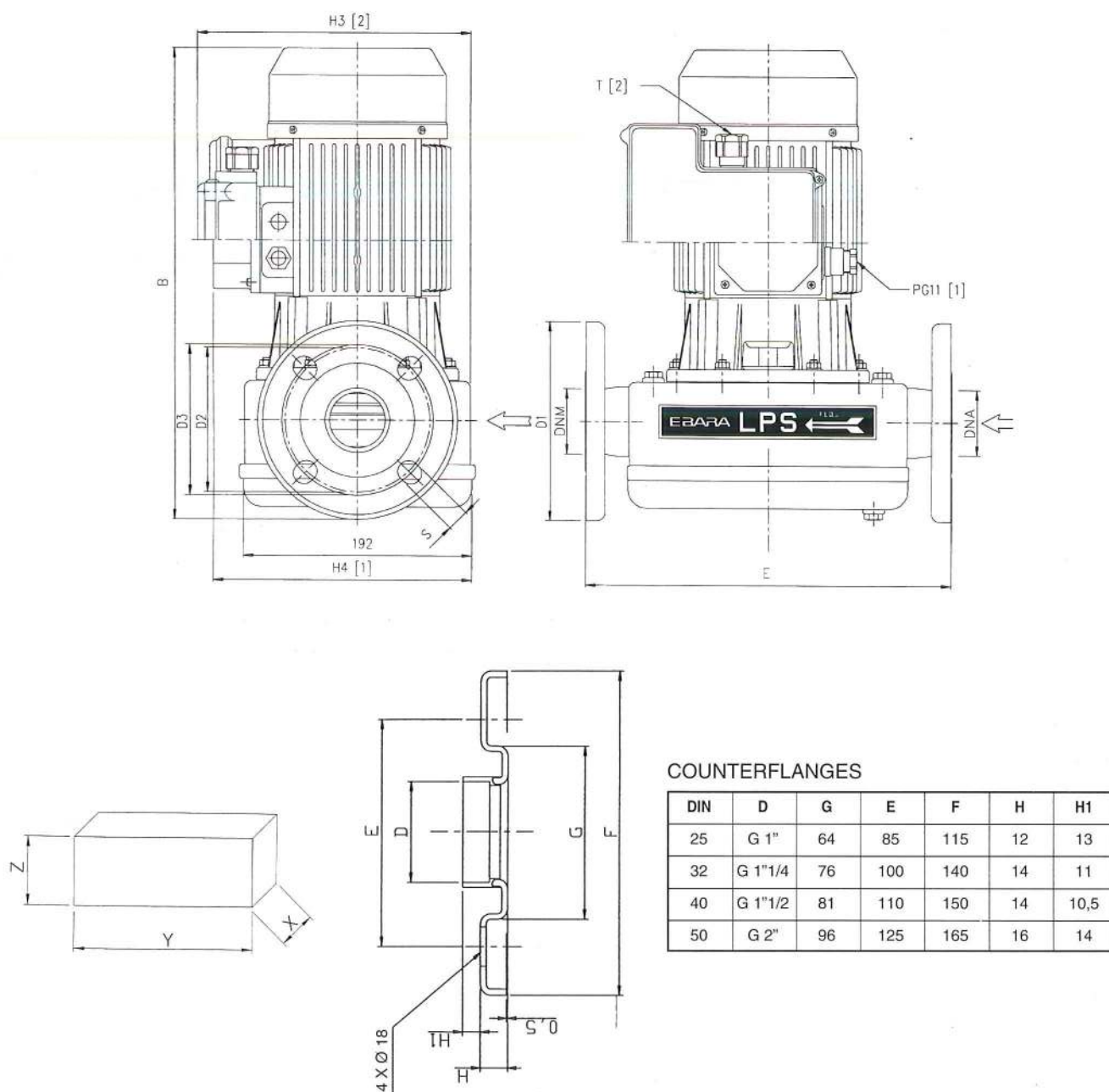
- Curves characteristics: 3000 r.p.m.
- Water test temperature: 20°C
- Performance limits: ISO 2458 for standard class C pumps.



PERFORMANCE TABLE LPS 50

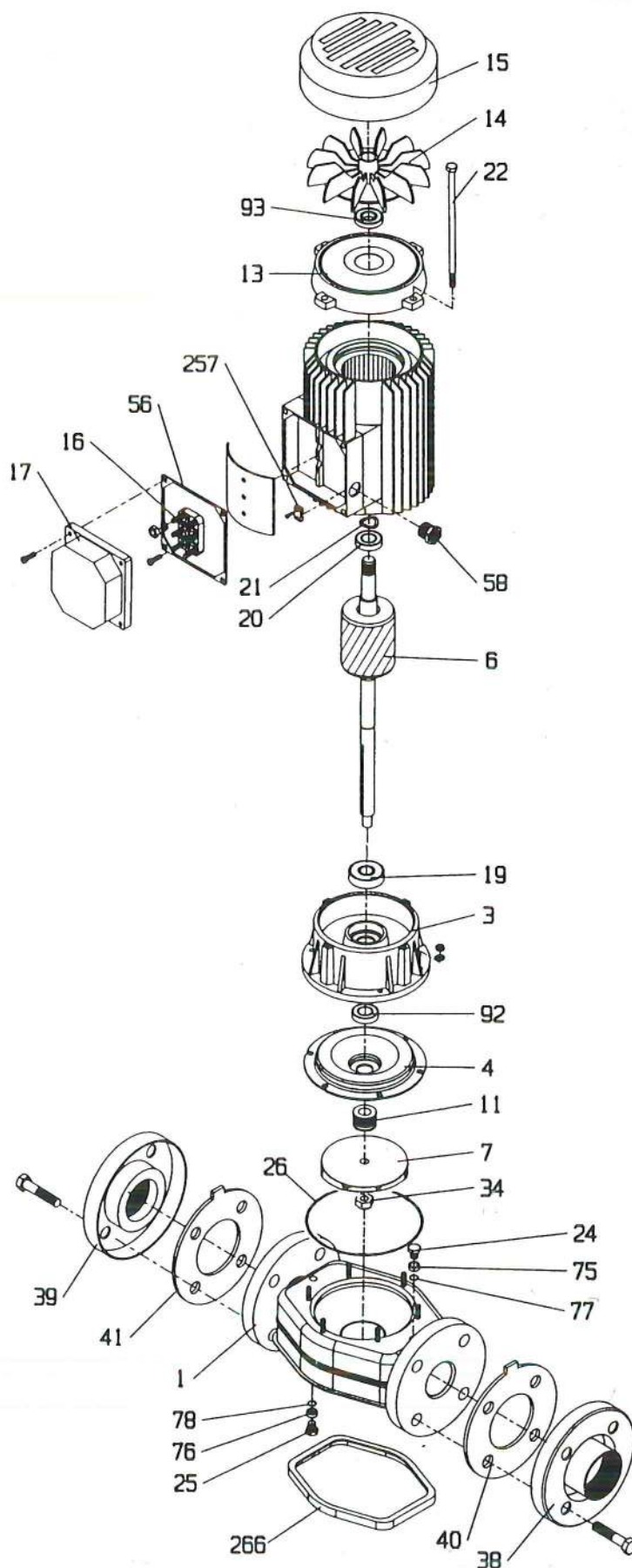
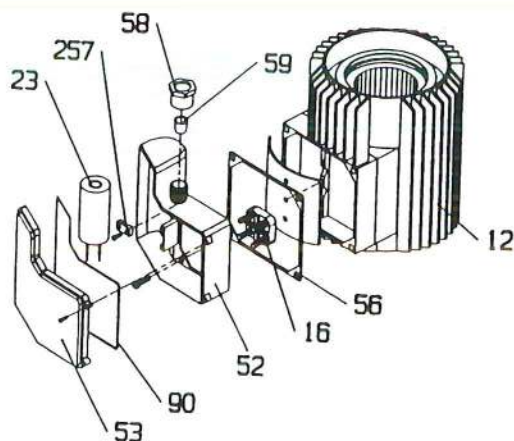
PUMP TYPE		OUTPUT		CAPACITOR		INPUT IN kW		FULL LOAD CURRENT IN Amp.		Q = CAPACITY									
1~	3~	kW	HP	1~	VI	1~	3~	1~	3~	20	40	70	100	120	150	200	250	320	400
230 V 50 Hz	230-400 V 50 Hz			μF	VI					l/min									
										m³/h									
										H = TOTAL MANOMETRIC HEAD IN METERS									
LPS 50/40M	LPS 50/40	0,4	0,55	12,5	450	0,62	0,61	2,74	2,2					9,1	8,8	7,4	5,9	3,5	
LPS 50/75M	LPS 50/75	0,75	1	25	450	1,08	1,04	4,9	3,9					13,8	13,3	12,3	10,7	8,2	5
LPS 50/150M	LPS 50/150	1,5	2	35	450	1,82	1,78	8,07	5,7					19,8	19,3	18,7	17,8	16	13,7

DIMENSIONS TABLE AND WEIGHTS



PUMP TYPE		DIMENSIONS in mm											PACKING (mm)			WEIGHT kg	
1~ 230 V	3~ 230/400 V	E	B	H3	H4	T	DNA	DNM	D1	D2	D3	S	X	Y	Z	1~	3~
LPS 25/08M	LPS 25/08	300	320,5	181	171	PG11	25	25	115	85	85	14	242	377	420	12,8	12,8
LPS 25/15M	LPS 25/15	300	320,5	181	171	PG11	25	25	115	85	85	14	242	377	420	12,8	12,8
LPS 25/25M	LPS 25/25	300	320,5	181	171	PG11	25	25	115	85	85	14	242	377	420	12,9	12,9
LPS 32/25M	LPS 32/25	305	340	181	171	PG11	32	32	140	100	100	18	242	377	420	14,6	14,6
LPS 32/40M	LPS 32/40	305	340	181	171	PG11	32	32	140	100	100	18	242	377	420	14,6	14,6
LPS 40/25M	LPS 40/25	305	345	181	171	PG11	40	40	150	105	110	18	242	377	420	13	12,5
LPS 40/40M	LPS 40/40	305	345	181	171	PG11	40	40	150	105	110	18	242	377	420	14	13,5
LPS 40/75M	LPS 40/75	305	345	181	171	PG11	40	40	150	105	110	18	242	377	420	13	12,5
LPS 50/40M	LPS 50/40	310	357,5	181	171	PG11	50	50	165	120	125	18	242	377	420	14,5	14
LPS 50/75M	LPS 50/75	310	357,5	181	171	PG11	50	50	165	120	125	18	242	377	420	15	14,5
LPS 50/150M	LPS 50/150	310	389,5	213	194	PG13,5	50	50	165	120	125	18	242	377	420	18,5	18

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

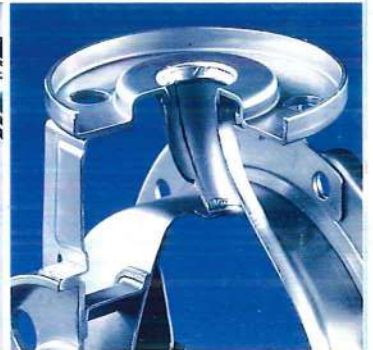


NR	PART NAME
1	Casing
3	Motor bracket
4	Casing cover
5	Shaft with rotor
7 *	Impeller
11 *	Mechanical seal
12	Motor frame with stator
13	Motor cover
14	Fan
15	Fan cover
16	Terminal box
17	Terminal box cover
19 *	Pump side ball bearings
20 *	Fan side ball bearings
21	Adjusting ring
22	Tie rod (n. 4)
23	Capacitor
24	Priming plug (n. 2)
25	Drain plug
26 *	"O" ring
34	Impeller nut
38	Counter flange
39	Counter flange
40	Suction gasket
41	Delivery gasket
52	Terminal body
53	Terminal cover
56	Box gasket
58	Fastening nut/cable entry
59	Conic gasket
75	Washer (n. 2)
76	Washer
77 *	"O" ring (n. 2)
78 *	"O" ring
90 *	Box gasket
92 *	Lip seal pump side
93 *	Lip seal fan side
257	Wire clamp
266	Gasket for welding

* Recommended spare parts



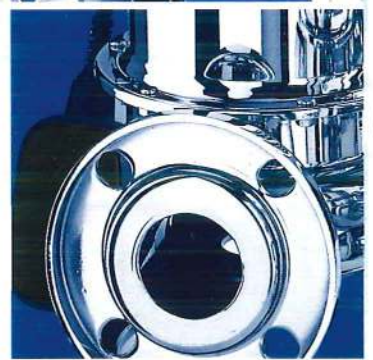
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All specifications subject to change without notice.

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