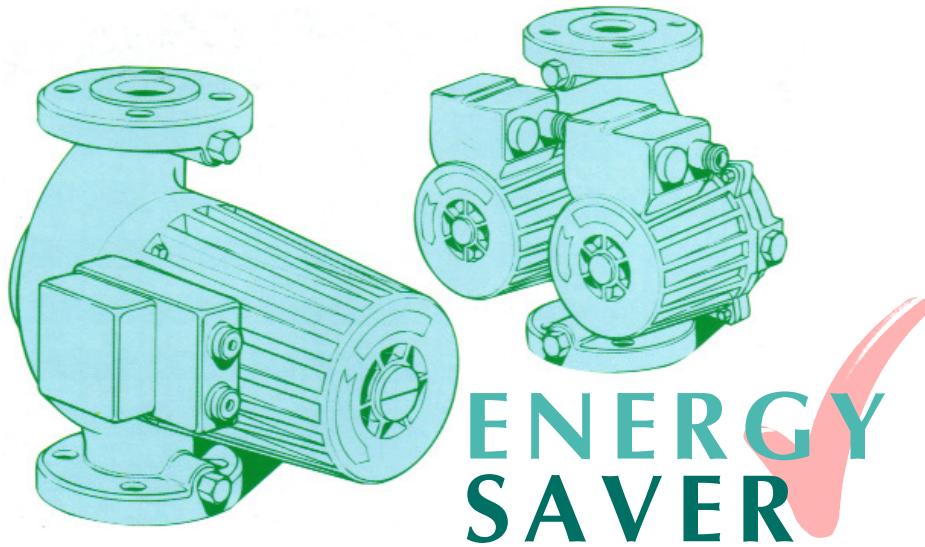


SILENTFLO E

VARIABLE SPEED GLANDLESS CIRCULATORS



ENERGY SAVER

SILENTFLO E, VARIABLE SPEED GLANDLESS CIRCULATORS FOR HEATING AND AIR CONDITIONING APPLICATIONS

Silentflo E single and twin, flooded rotor, variable speed glandless circulators for continuous service in commercial heating and air conditioning systems.

CONSTRUCTION

- Single and Twin in-line circulators for convenient pipeline mounting - top pull-out design allows the motor and rotating assembly to be removed without disturbing the pump casing or pipework.
- Dynamically balanced flooded rotor, and water lubricated carbon bearings ensures super quiet running and maintenance free service.
- Variable speed, energy efficient motors allow the circulator performance to be matched to the system flow requirements.
- Twin circulators comprise two single silentflo circulator heads mounted within a compact common housing, which incorporates a discharge non-return flap to prevent recirculation when one head is running. Twin circulators, whilst generally arranged for duty and standby operation, can be operated with both heads running in parallel for peak load applications.

DESIGN CONSIDERATIONS

Operating limits

SINGLE PUMP TYPE CODE	Class A SE	SLE
TWIN PUMP TYPE CODE		DSLE
Size	Rp 1 - 1 1/4	DN40-80
Water temperature range - °C	2 to 110	-10 to 120
Maximum operating pressure - bar	6 optional 10	
Performance test standard	ISO 2548	
Standard Electric supply	230 volt, 1 phase, 50 Hz - code E1	

OPERATING MODES

Δp -c	Constant differential pressure regulation
Δp -v	Proportional differential pressure regulation
Economy	Fixed economy speed

Materials of construction

TYPE CODE	SLE/DSLE
Casing	Cast Iron
Impeller	Engineering thermoplastic
Shaft	Stainless steel
Bearings	Hard wearing carbon - water lubricated
Motor	IP44 protection - Class 'H' insulation

Pump coding example

TYPE CODE	PUMP SIZE	NOMINAL HEAD kPa	ELECTRIC SUPPLY
DSLE	50.	120-	E1

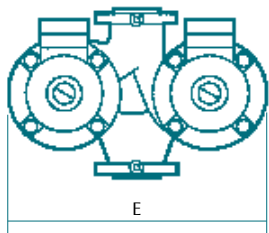
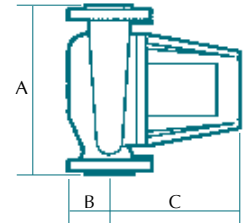
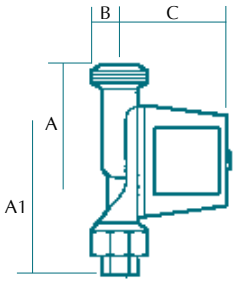
FLUID
a

for better fluid handling

SILENTFLO E

VARIABLE SPEED GLANDLESS CIRCULATORS

DIMENSIONS & DATA



PUMP MODEL	INLET & OUTLET		DIMENSIONS IN MILLIMETRES								WATTS	FULL LOAD AMPS	MINIMUM STATIC HEAD METRES at 90°C	MASS kg
	SIZE	BS4504		A	A1	B	C	D	E	F				
		PN6	PN10											
SE25.35	Rp1			180	235	30	130				22	0.2	2	2.5
SE25.55	Rp1			180	235	30	130				45	0.4	2	2.5
SE25.65	Rp1			180	235	50	150				70	0.5	2	4
SE25.80	Rp1			180	235	50	150				110	0.8	2	4
SE32.110	Rp1 1/4			180	235	50	150				175	1.3	2	4
SLE40.60	40	●	○	250		70	315	200			350	2.2	4	15
SLE40.120	40	●	○	250		70	315	200			530	3.3	9	18
SLE50.60	50	●	○	280		75	395	200			600	3.7	7.5	21
SLE50.120	50	●	○	280		75	395	200			900	5.3	5.0	27
SLE50.180	50	●	○	280		75	395	200			1700	10.1	5.0	27
SLE65.60	65	●	○	340		75	405	230			750	4.5	4.0	32
SLE65.120	65	●	○	340		75	405	230			1300	7.4	11	34
SLE65.150	65	●	○	340		75	405	230			1800	10.1	11	34
SLE80.120	80	●	○	360		100	410	230			1800	10.1	10	41
DSLE40.60	40	●	○	250		70	315		400		350	2.2	4	39
DSLE40.120	40	●	○	250		70	315		400		530	3.3	9	39
DSLE50.60	50	●	○	280		75	395		440		600	3.7	7.5	64
DSLE50.120	50	●	○	280		75	395		440		900	5.3	5.0	64
DSLE50.180	50	●	○	280		75	395		440		1700	10.1	5.0	70
DSLE65.60	65	●	○	340		75	405		470		750	4.5	4.0	70
DSLE65.120	65	●	○	340		75	405		470		1300	7.4	11	75
DSLE65.150	65	●	○	340		75	405		470		1800	10.1	11	75
DSLE80.120	80	●	○	360		100	410		480		1800	10.1	10	86

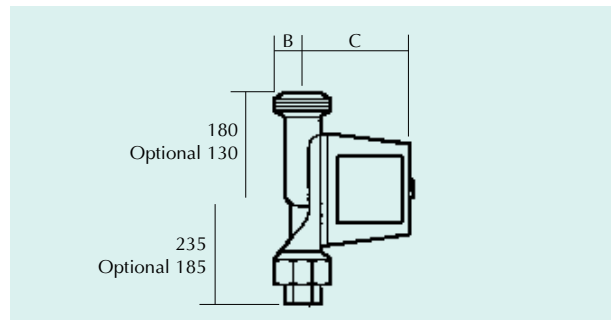
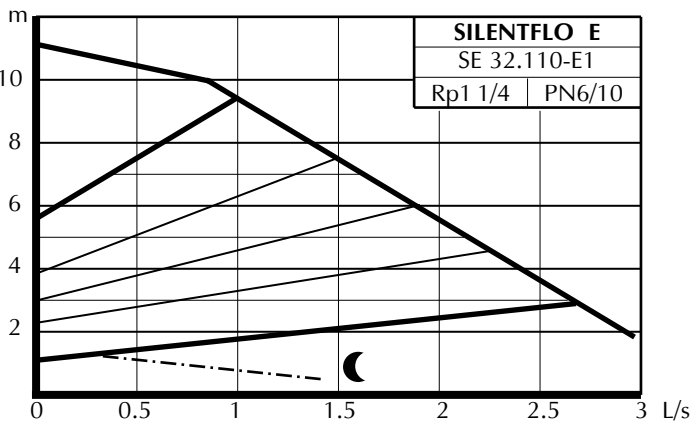
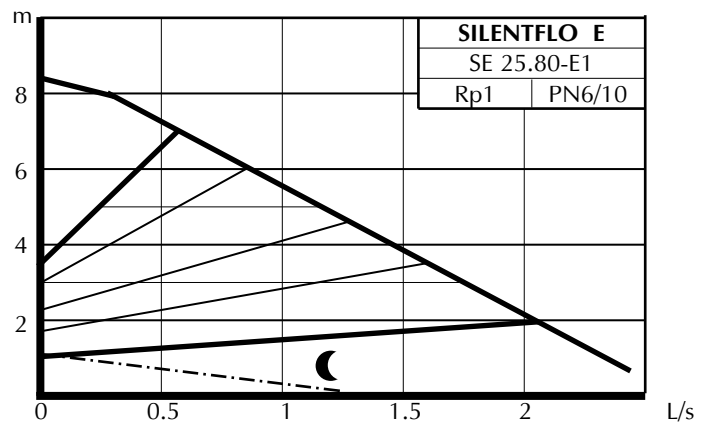
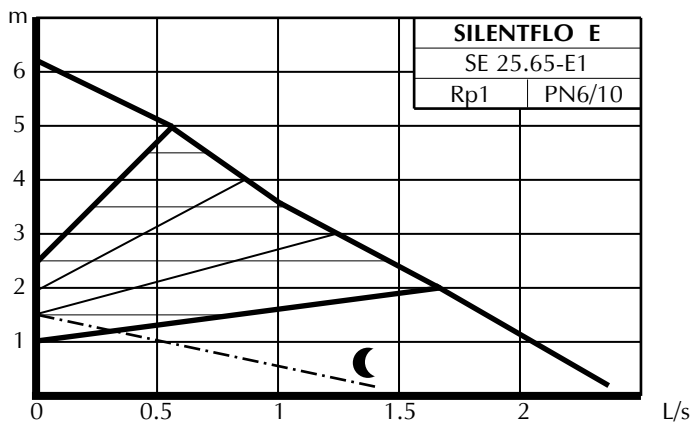
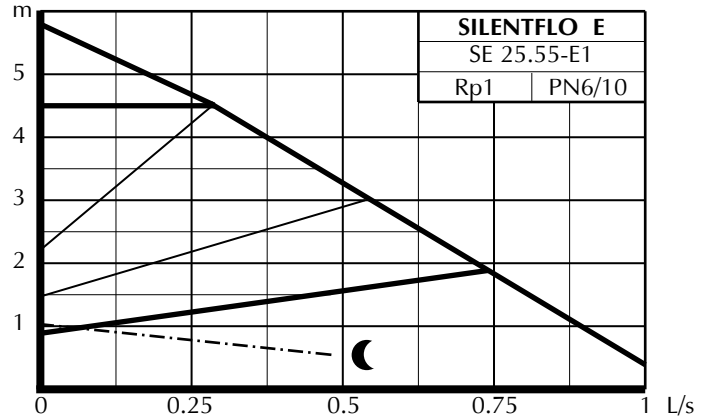
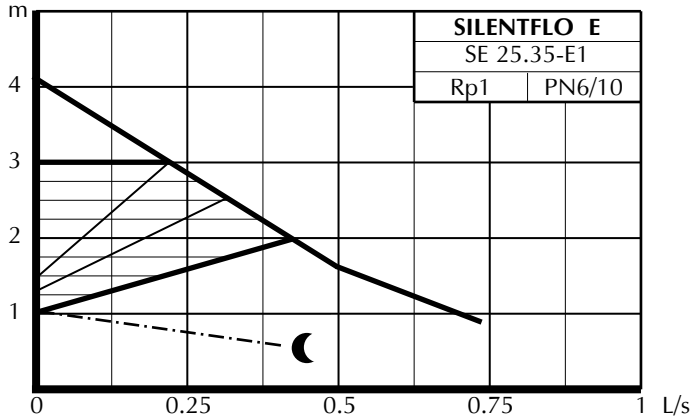
● Standard ○ Optional Standard Electric supply -230 volt, 1 phase, 50 Hz--code E1

INSTALLATION ARRANGEMENTS



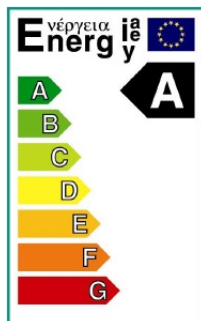
- Glandless circulators must be installed with motor shaft horizontal.

Rp1-1 1/4



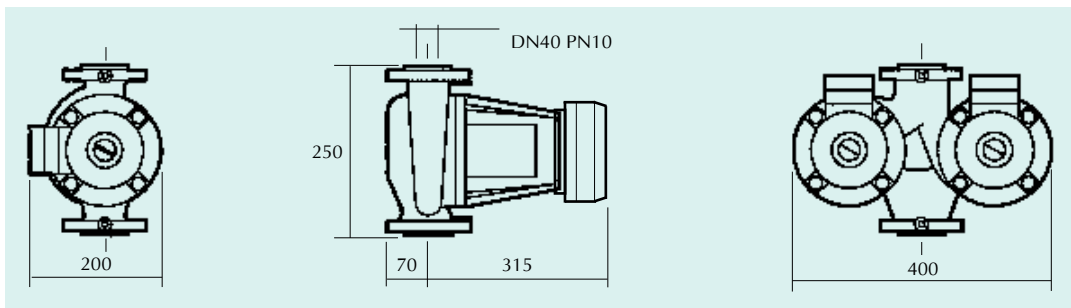
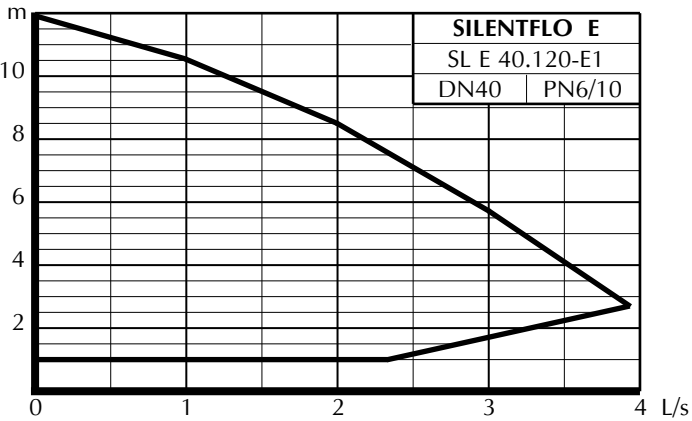
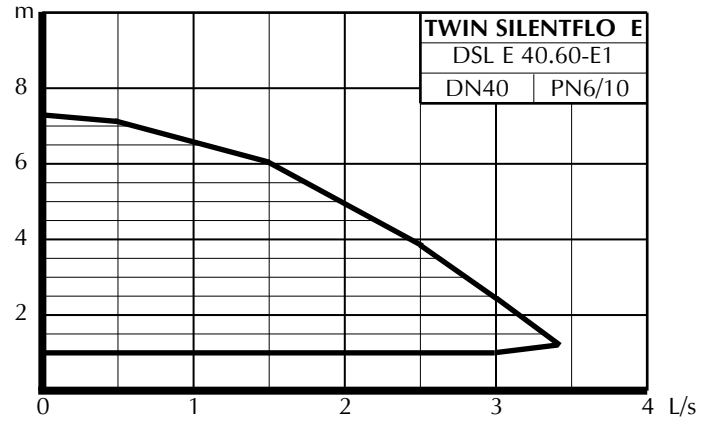
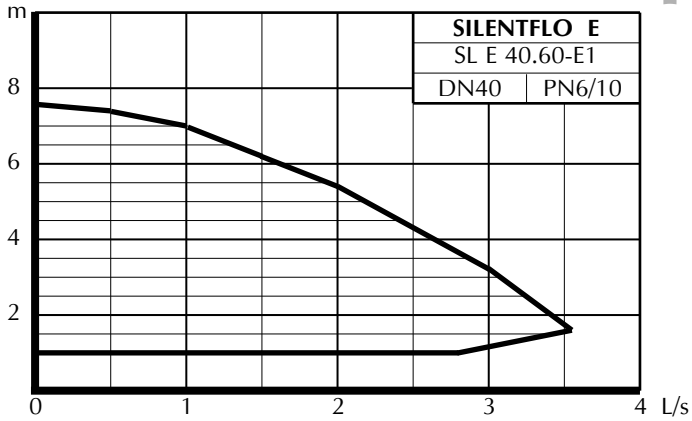
MODEL	B	C	WATTS	AMPS	kg
SE 25.35-E1	30	130	22	0.2	2.5
SE 25.55-E1	30	130	45	0.4	2.5
SE 25.65-E1	50	150	70	0.5	4.0
SE 25.80-E1	50	150	110	0.8	4.0
SE 32.110-E1	50	150	175	1.3	4.0

E1 = 230/1/50



DN40

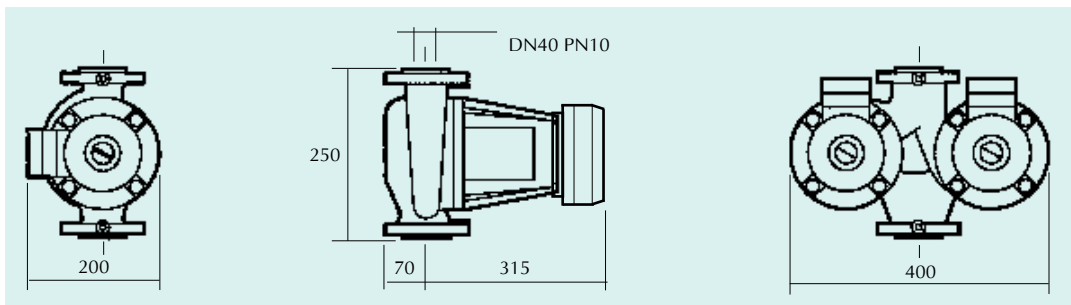
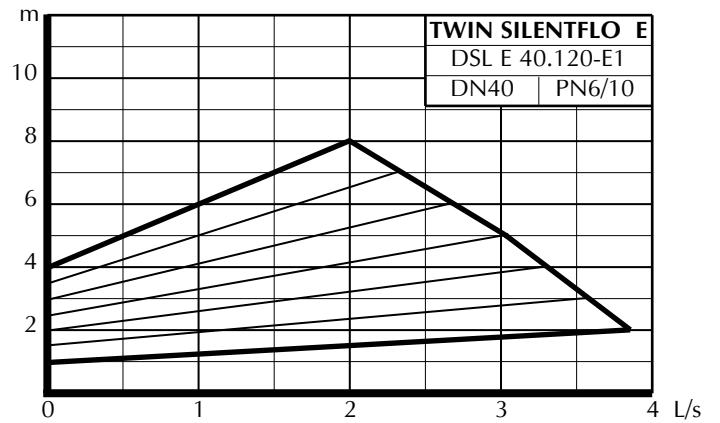
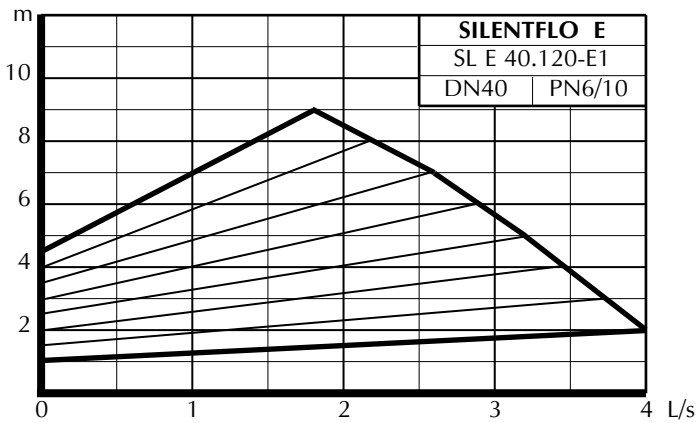
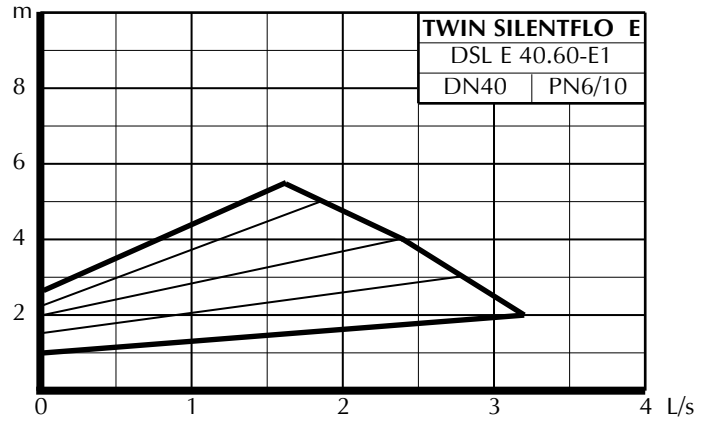
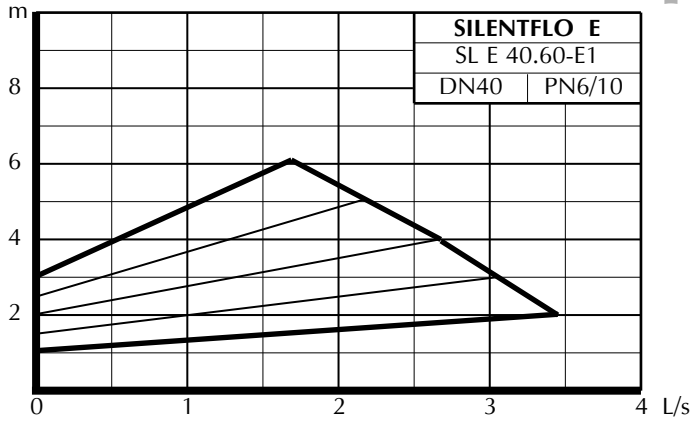
$\Delta p-c$



MODEL	kw	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 40.60-E1	0.35	2.2	4.0	15/39
E 40.120-E1	0.53	3.3	9.0	18/39

E1 = 230/1/50

DN40
 $\Delta p-v$

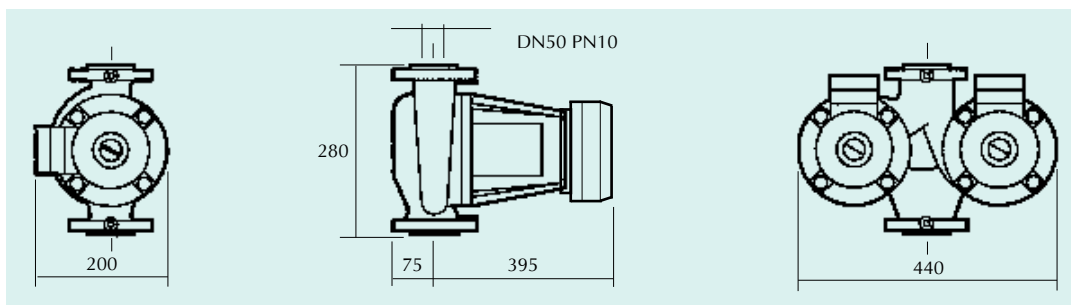
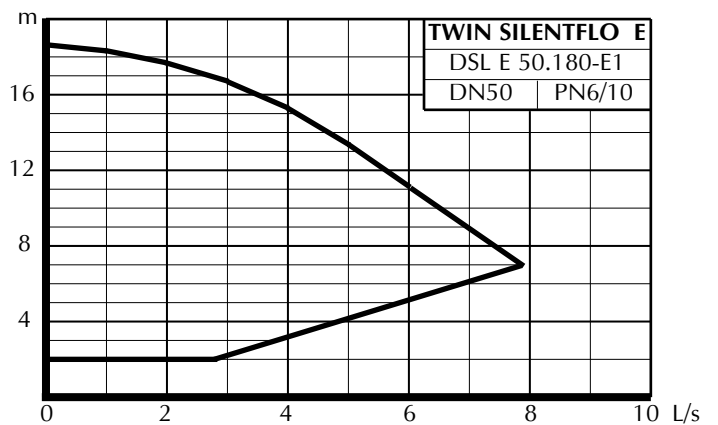
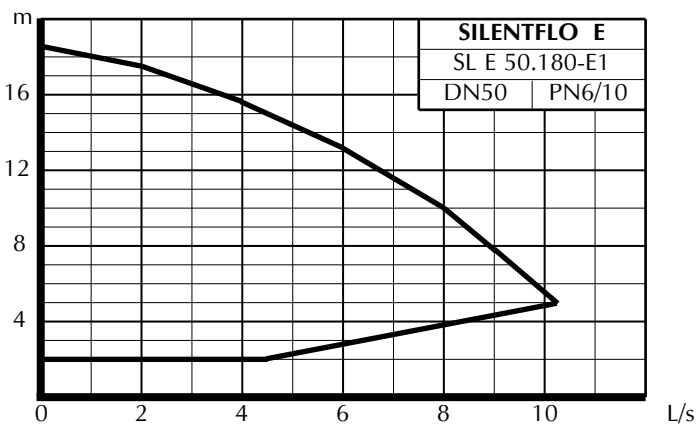
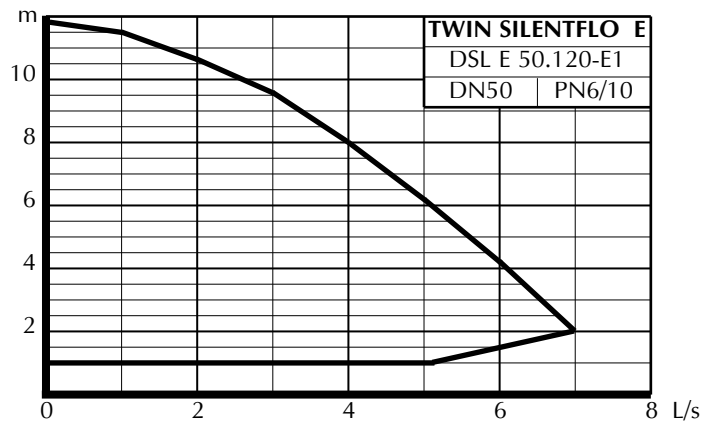
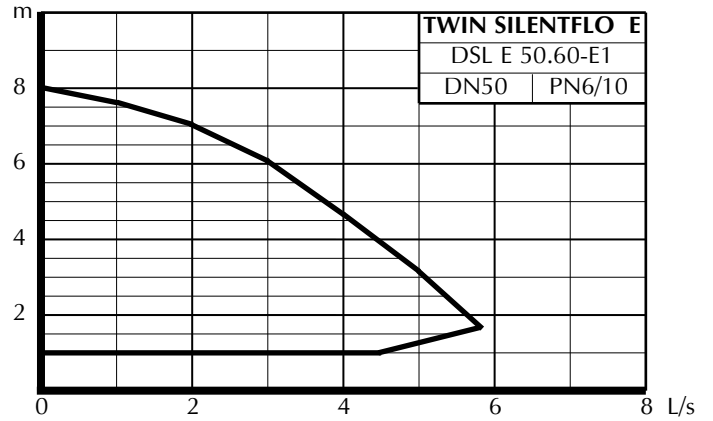
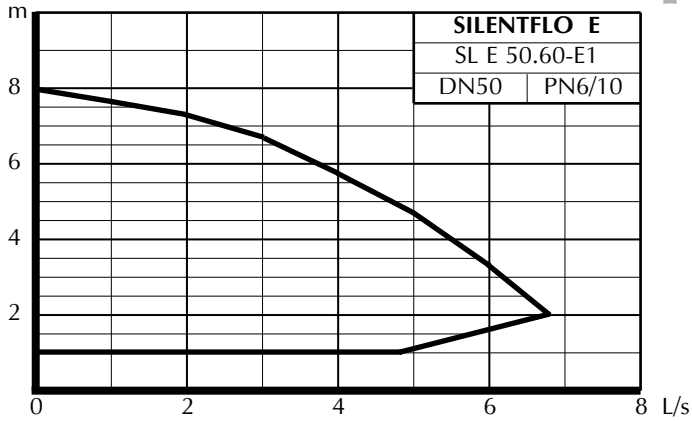


MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 40.60-E1	0.35	2.2	4.0	15/39
E 40.120-E1	0.53	3.3	9.0	18/39

E1 = 230/1/50

DN50

$\Delta p-c$

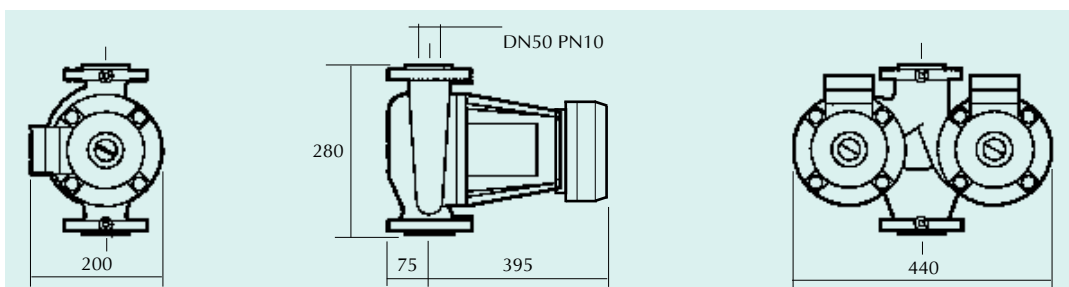
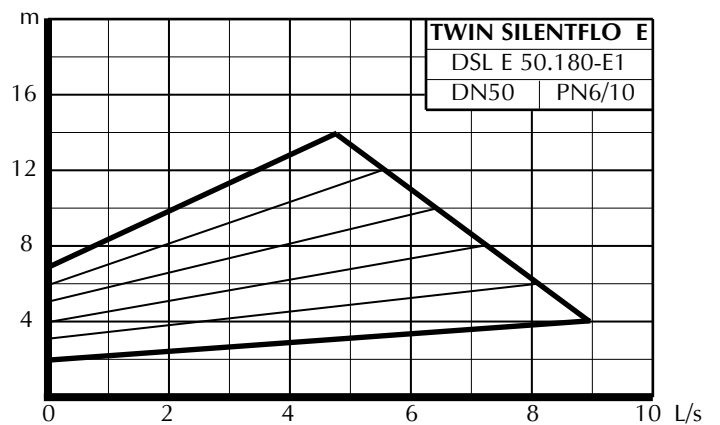
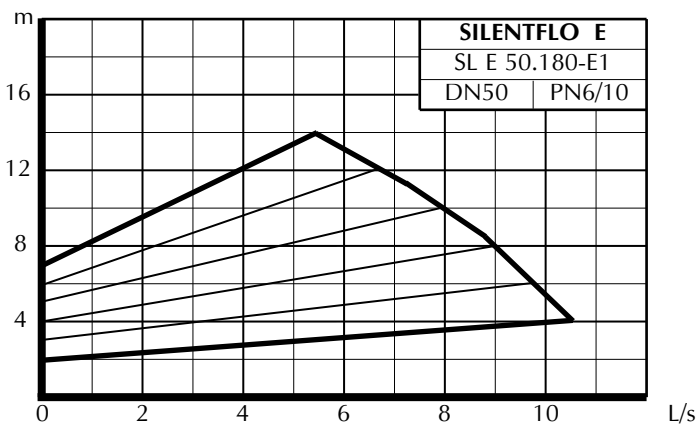
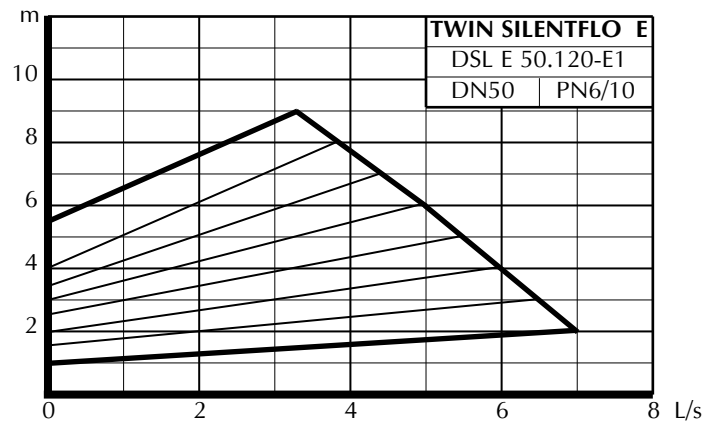
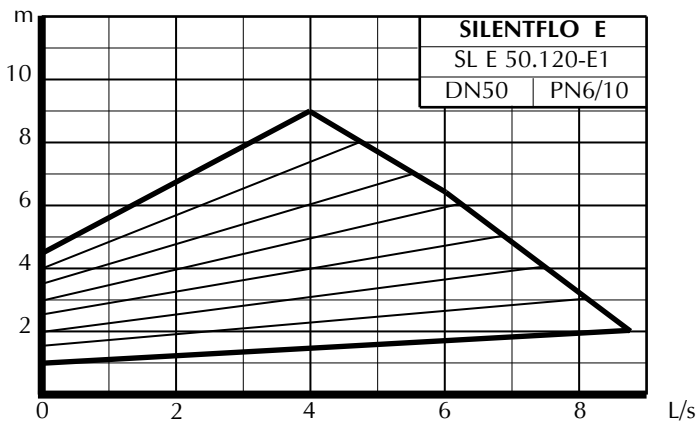
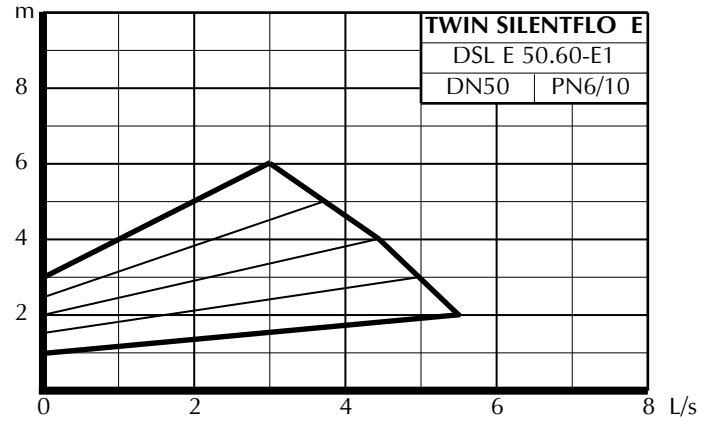
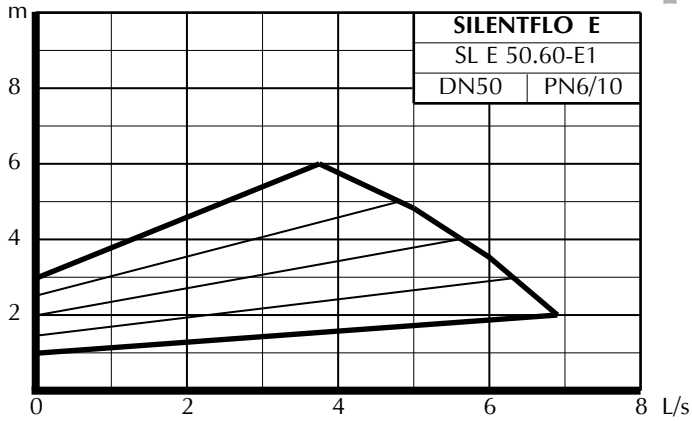


MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 50.60-E1	0.60	3.7	7.5	21/64
E 50.120-E1	0.9	5.3	5.0	27/64
E 50.180-E1	1.7	10.1	5.0	27/70

E1 = 230/1/50

DN50

$\Delta p-v$

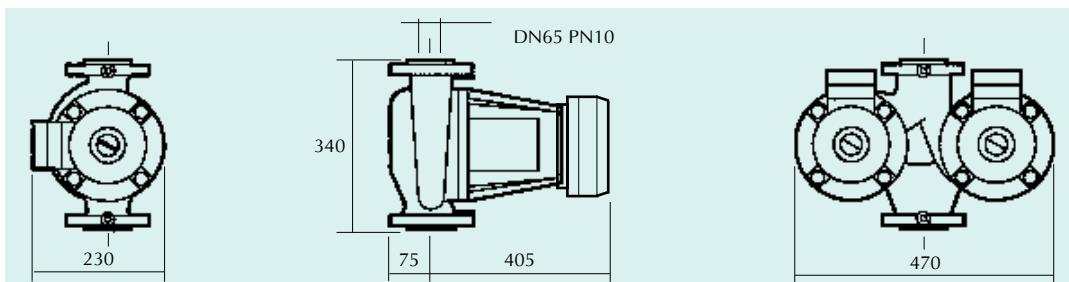
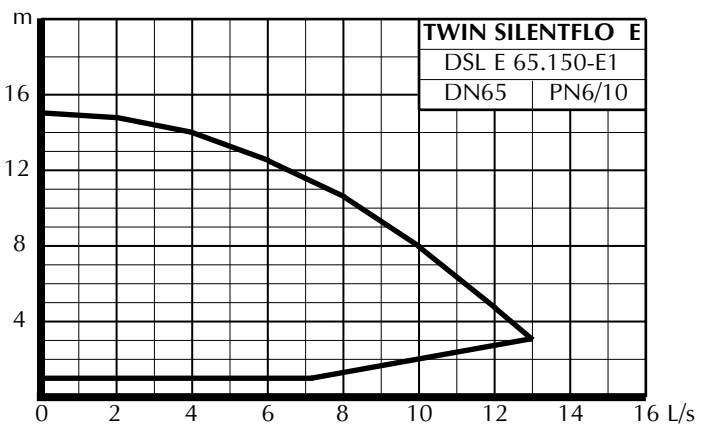
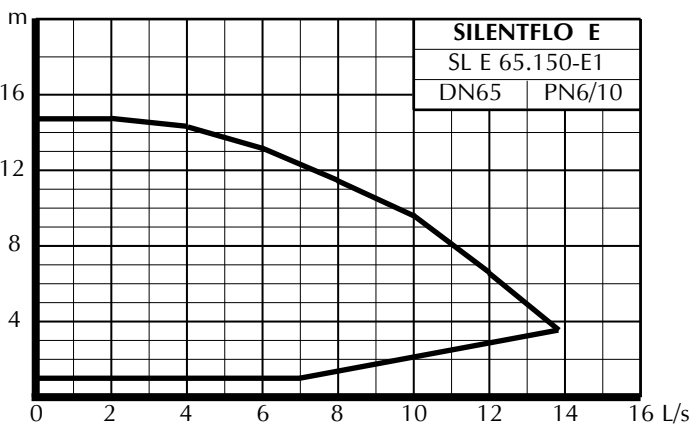
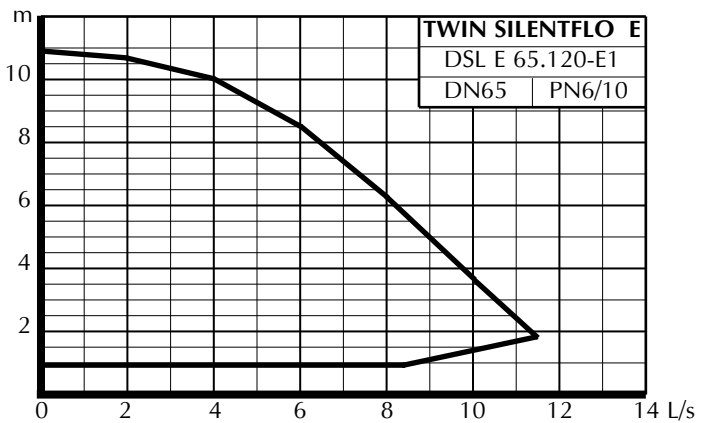
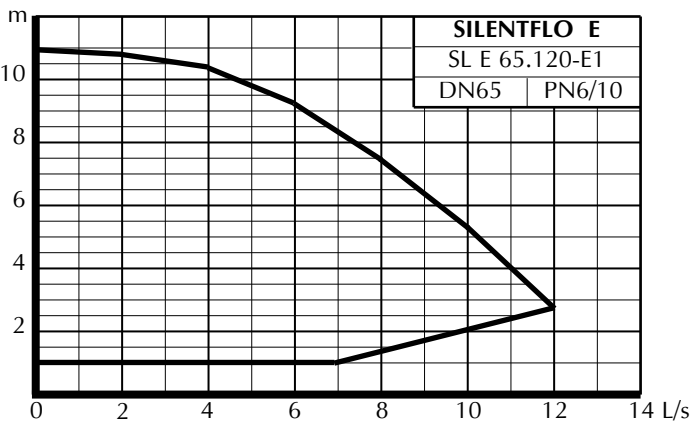
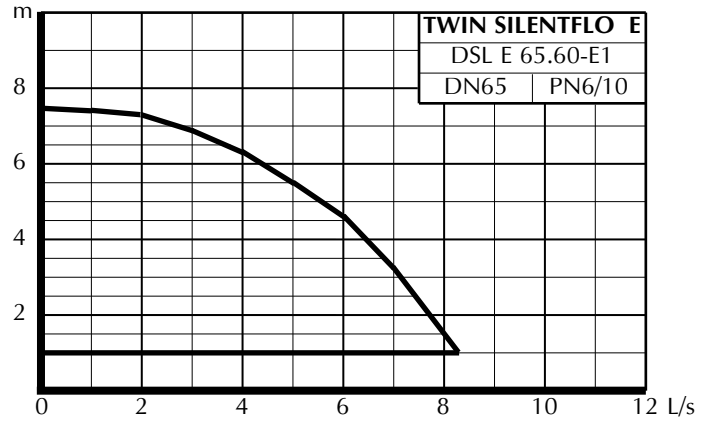
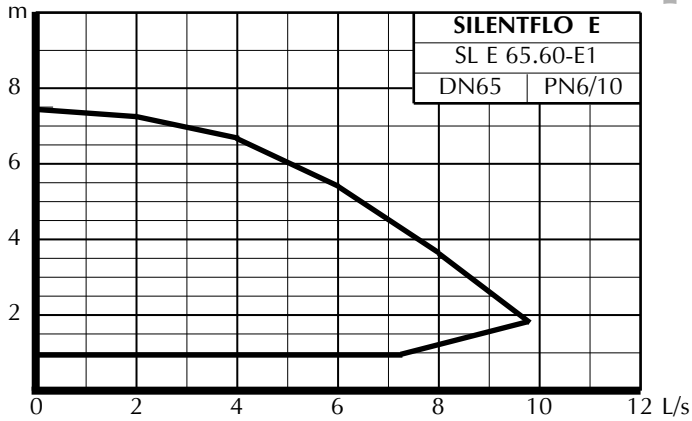


MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 50.60-E1	0.6	3.7	7.5	21/64
E 50.120-E1	0.9	5.3	5.0	27/64
E 50.180-E1	1.7	10.1	5.0	27/70

E1 = 230/1/50

DN65

$\Delta p-c$

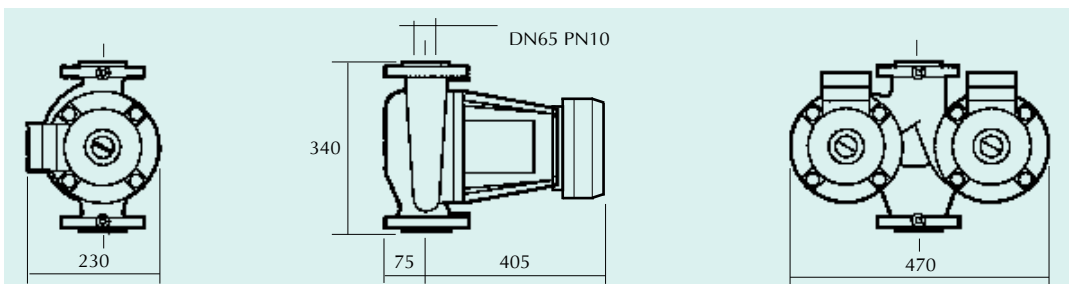
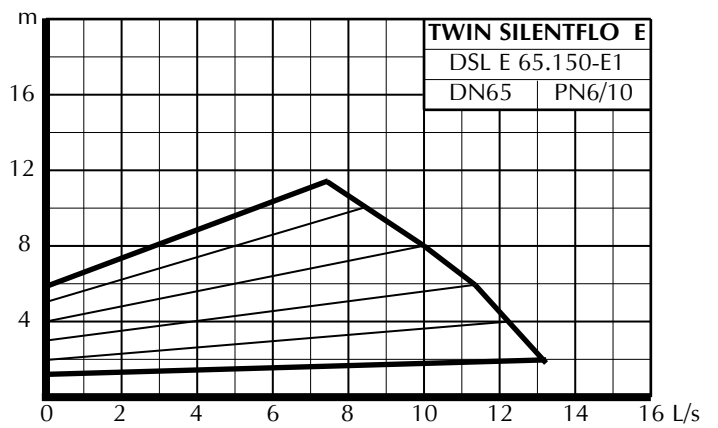
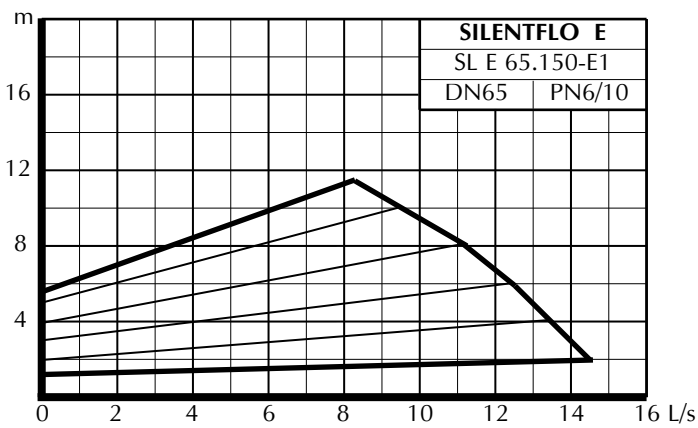
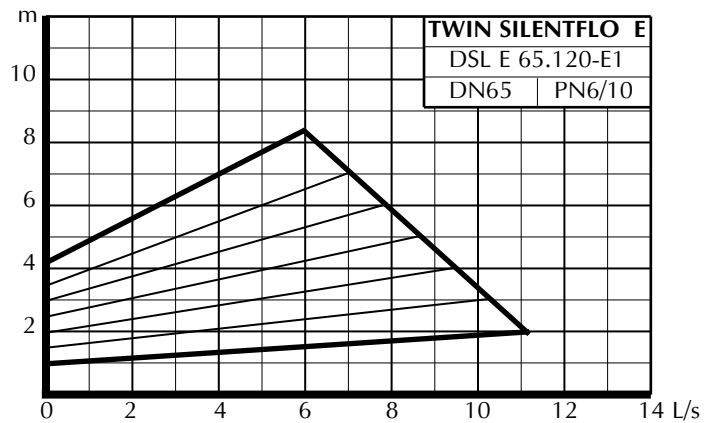
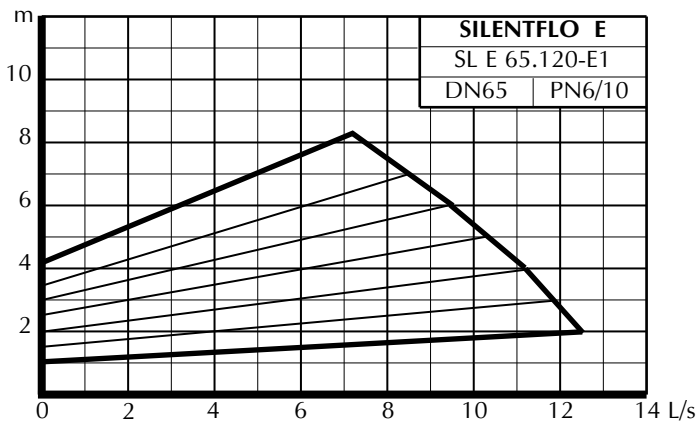
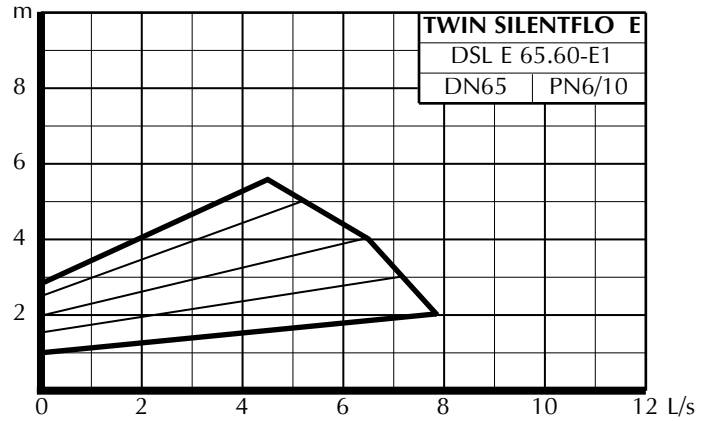
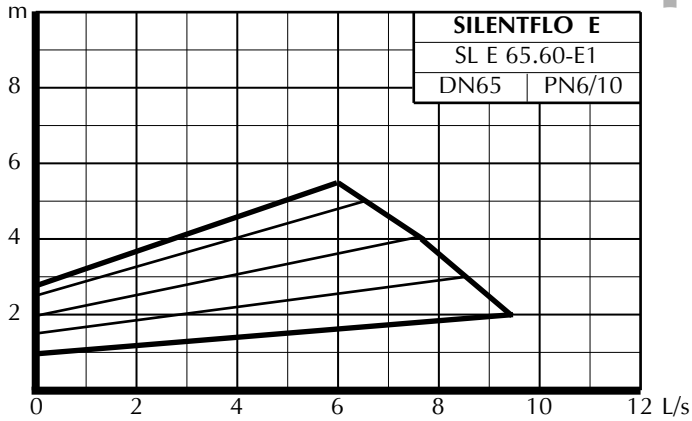


MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 65.60-E1	0.75	4.5	4.0	32/70
E 65.120-E1	1.3	7.4	11.0	34/75
E 65.150-E1	1.8	10.1	11.0	34/75

E1 = 230/1/50

DN65

$\Delta p-v$

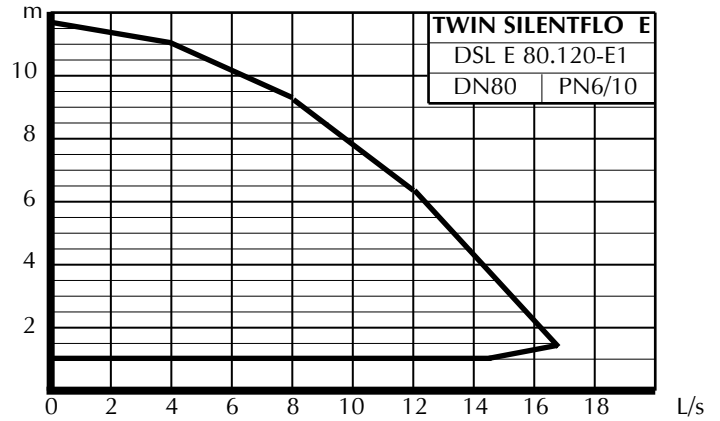
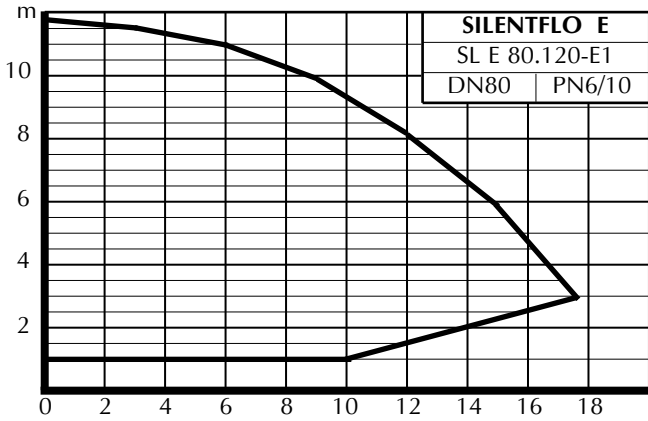


MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 65.60-E1	0.75	4.5	4.0	32/70
E 65.120-E1	1.3	7.4	11.0	34/75
E 65.150-E1	1.8	10.1	11.0	34/75

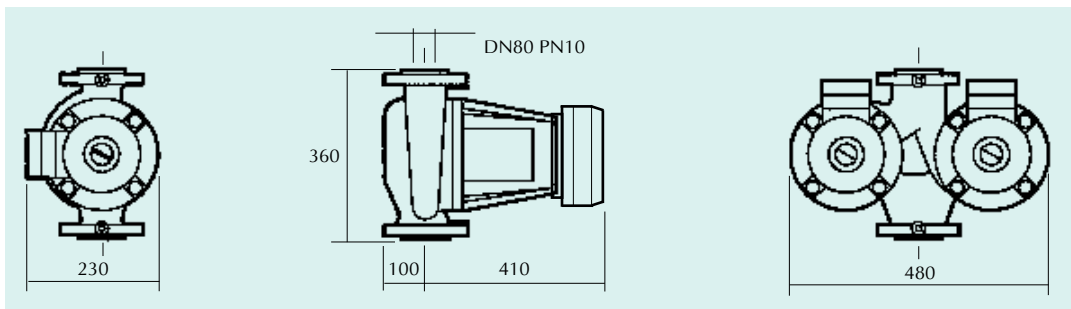
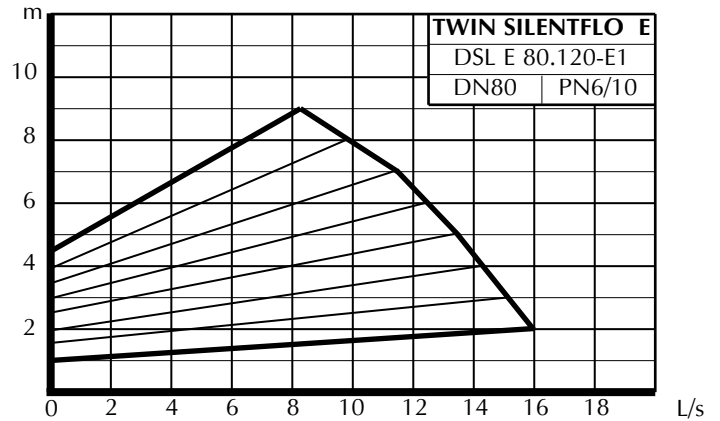
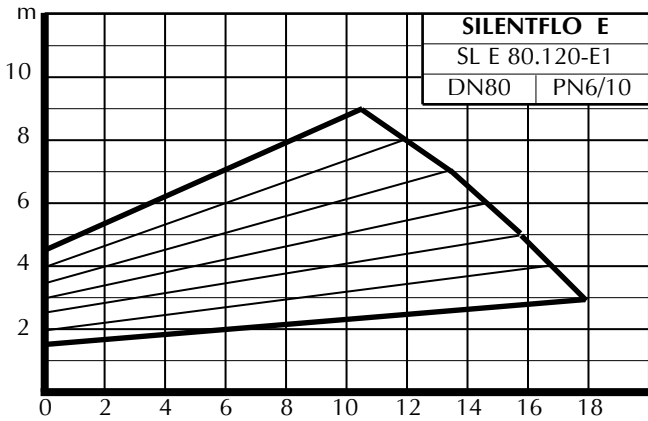
E1 = 230/1/50

DN80

$\Delta p-c$



$\Delta p-v$



MODEL	kW	AMPS	M - MIN STATIC HEAD AT 90 C	kg - SLE/DSLE
E 80.120-E1	1.8	10.1	10.0	41/86
E1 = 230/1/50				

INSTALLATION ARRANGEMENTS



- Glandless circulators must be installed with motor shaft horizontal.

SILENTFLO E 1.0.9