

LINEFLO E

VARIABLE SPEED IN-LINE PUMPS



ENERGY SAVER

LINEFLO E VARIABLE SPEED IN-LINE PUMPS FOR HEATING AND COOLING AND GENERAL PUMPING APPLICATIONS

Lineflo E single and twin, variable speed in-line centrifugal pumps designed for continuous service, handling non-abrasive hot and cold liquids in general pumping, water supply and building services applications.

CONSTRUCTION

- Single and Twin in-line pumps for convenient pipeline mounting - top pull-out design allows the motor and rotating assembly to be removed without disturbing the pump casing or pipework.
- Close-coupled design, with permanently aligned electric motor and mechanical shaft sealing - eliminating alignment and stuffing-box maintenance.
- Variable speed, energy efficient motors allow the pump performance to be matched to the system flow requirements.
- Twin Lineflo pumps comprise two single pump heads mounted within a compact common casing, which incorporates a discharge non-return flap to prevent recirculation when one head is running. Twin pumps are generally arranged for duty and standby operation but can be operated with both heads running in parallel.

DESIGN CONSIDERATIONS

Operating limits

SINGLE PUMP TYPE CODE	TE	LE
TWIN PUMP TYPE CODE	DTE	DLE
Size	DN40-80	DN40-150
Water temperature range - °C	-15 to 120	
Maximum operating pressure - bar	6 optional 10	10
Performance test standard	ISO 2548	
Standard Electric supply	400 volt, 3 phase, 50 Hz -code E3 230 volt, 1 phase, 50 Hz -code E1	

OPERATING MODES

Δp -c	Constant differential pressure regulation
Economy	Fixed economy speed

Materials of construction

TYPE CODE	TE/DTE	LE/DLE
Casing	Cast Iron	
Impeller	Engineering thermoplastic	Cast Iron or Bronze
Shaft	Stainless steel	
Mechanical seal	Carbon versus Ceramic	
Electric motor	Totally enclosed fan ventilated IP44 protection - Class 'F' insulation Optional specifications available	

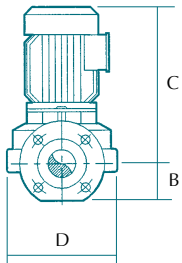
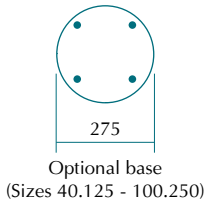
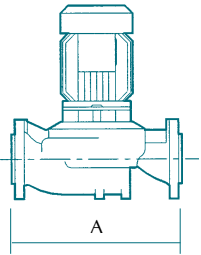
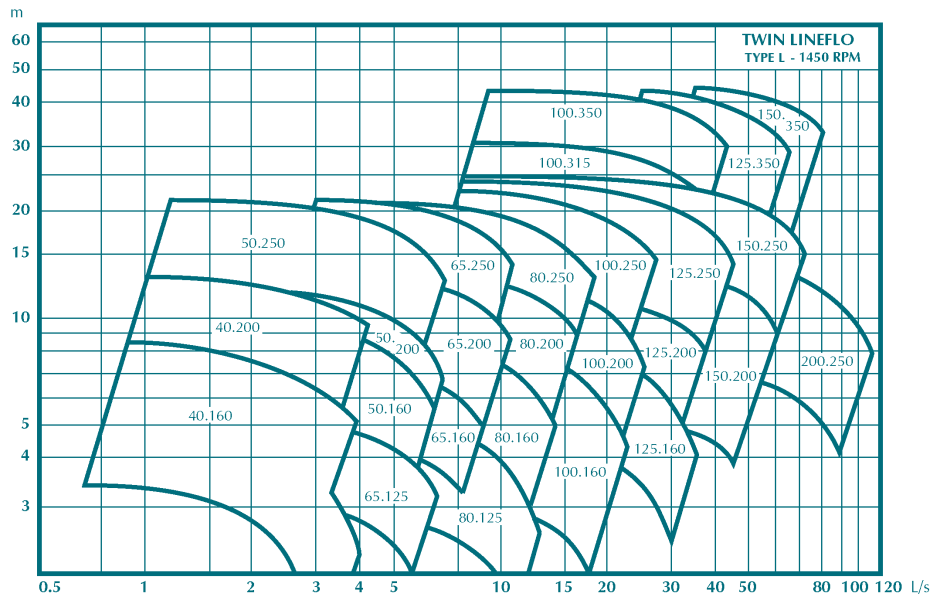
FLUID
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for better fluid handling

LINEFLO L 4

IN-LINE PUMPS

PERFORMANCE



3 - S Dia TAPPED - Support bosses
(Sizes 125.160 - 150.250)

DIMENSIONS & DATA

PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET BS4504 PN10	DIMENSIONS IN MILLIMETRES					MOTOR SPEED RPM	MOTOR Kw	MASS kg
	E3	E1		A	B	C	D	S			
L40.125	●	○	40	320	70	345	235		1450	0.25	25
L40.160	●	○	40	320	70	345	235		1450	0.25-0.37	25
L40.200	●	○	40	440	95	360	325		1450	0.55-0.75	45
L40.250	●	○	40	440	95	400	325		1450	1.1-1.5	65
L50.125	●	○	50	340	70	355	235		1450	0.25-0.37	30
L50.160	●		50	340	70	390	245		1450	0.55	30
L50.200	●	○	50	440	110	415	325		1450	0.75-1.1	63
L50.250	●	○	50	440	110	435	325		1450	1.5-2.2	70
L65.125	●	○	65	340	80	400	275		1450	0.37-0.55	40
L65.160	●	○	65	340	80	435	275		1450	0.75-1.1	55
L65.200	●	○	65	475	120	405	335		1450	1.5	70
L65.250	●	○	65	475	120	460	335		1450	2.2-3.0	80
L80.125	●	○	80	360	90	455	290		1450	0.75-1.1	60
L80.200	●	○	80	500	130	480	350		1450	1.5-3.0	90
L80.250	●		80	500	130	530	350		1450	4.0-5.5	125
L100.160	●	○	100	450	105	465	310		1450	1.5	75
L100.200	●	○	100	550	140	490	365		1450	2.2-3.0	100
L100.250	●		100	550	140	540	365		1450	4.0-7.5	140
L125.160	●	○	125	630	160	550	420	M16	1450	3.0	130
L125.200	●		125	620	165	600	380	M16	1450	4.0-5.5	155
L125.250	●		125	630	170	600	425	M16	1450	7.5	165
L125.250	●		125	630	170	720	425	M16	1450	11	230
L125.315	●		125	775	230	760	505	M16	1450	15-18.5	290
L125.315	●		125	775	230	840	505	M16	1450	22	290
L150.200	●		150	720	180	615	470	M16	1450	5.5-7.5	175
L150.250	●		150	755	190	765	505	M16	1450	11-18.5	260

● Standard ○ Optional

Pump coding example

TYPE CODE	PUMP SIZE	MOTOR kW/POLES	ELECTRIC SUPPLY
L (Fixed Speed)	80.125	1.1/4	E3
LE (Variable Speed)			

Due to a policy of continual development, we reserve the right to alter specifications without prior notice.

LINEFLO 2.1

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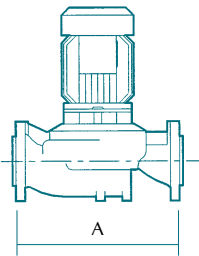
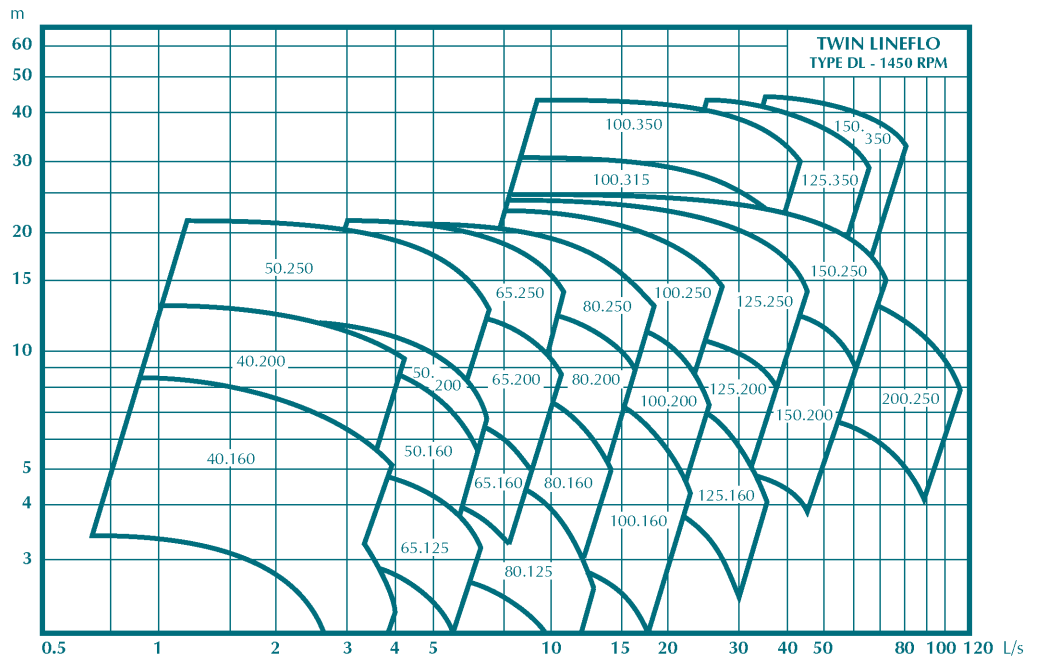
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LINEFLO DL 4

TWIN IN-LINE PUMPS

PERFORMANCE



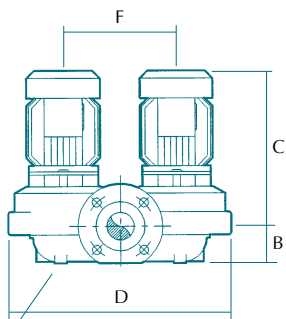
DIMENSIONS & DATA

PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET BS4504 PN10	DIMENSIONS IN MILLIMETRES						MOTOR SPEED RPM	MOTOR Kw	MASS kg
	E3	E1		A	B	C	D	F	S			
DL40.125	●	○	40	320	90	330	490	250	M12	1450	0.25-0.37	45
DL40.160	●	○	40	320	90	330	490	250	M12	1450	0.25-0.37	50
DL40.200	●	○	40	440	100	360	700	360	M12	1450	0.55-0.75	85
DL40.250	●	○	40	440	100	400	700	360	M12	1450	1.1-1.5	125
DL50.125	●	○	50	340	90	335	500	260	M12	1450	0.25-0.37	50
DL50.160	●		50	340	90	365	500	260	M12	1450	0.55	55
DL50.200	●	○	50	440	125	400	700	360	M12	1450	0.75-1.1	120
DL50.250	●	○	50	440	125	420	700	360	M12	1450	1.5-2.2	140
DL65.125	●	○	65	340	110	365	590	310	M12	1450	0.37-0.55	85
DL65.160	●	○	65	340	110	400	590	310	M12	1450	0.75-1.1	105
DL65.200	●	○	65	475	130	400	695	360	M12	1450	1.5	130
DL65.250	●	○	65	475	130	455	695	360	M12	1450	2.2-3.0	155
DL80.125	●	○	80	400	140	405	605	320	M12	1450	0.75-1.1	115
DL80.200	●	○	80	500	160	450	720	380	M12	1450	1.5-3.0	170
DL80.250	●		80	500	160	500	720	380	M12	1450	4.0-5.5	240
DL100.160	●	○	100	500	175	400	670	360	M12	1450	1.5	145
DL100.200	●	○	100	550	180	450	800	410	M12	1450	2.2-3.0	205
DL100.250	●		100	550	180	505	800	410	M12	1450	4.0-7.5	285
DL125.160	●	○	125	630	175	550	800	385	M20	1450	3.0	250
DL125.200	●		125	620	160	600	715	350	M20	1450	4.0-5.5	290
DL125.250	●		125	630	165	600	805	390	M20	1450	7.5	325
DL125.250	●		125	630	165	720	805	390	M20	1450	11	455
DL150.200	●		150	720	175	615	900	440	M20	1450	5.5-7.5	355
DL150.250	●		150	755	200	760	965	465	M20	1450	11-18.5	535

● Standard ○ Optional

Pump coding example

TYPE CODE	PUMP SIZE	MOTOR kW/POLES	ELECTRIC SUPPLY
DL (Fixed Speed)	80.125	1.1/4	E3
DLE (Variable Speed)			



3 - S Dia TAPPED - Support bosses

Due to a policy of continual development, we reserve the right to alter specifications without prior notice.

LINEFLO 2.2

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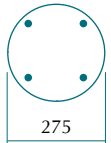
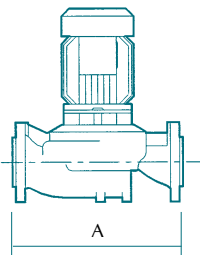
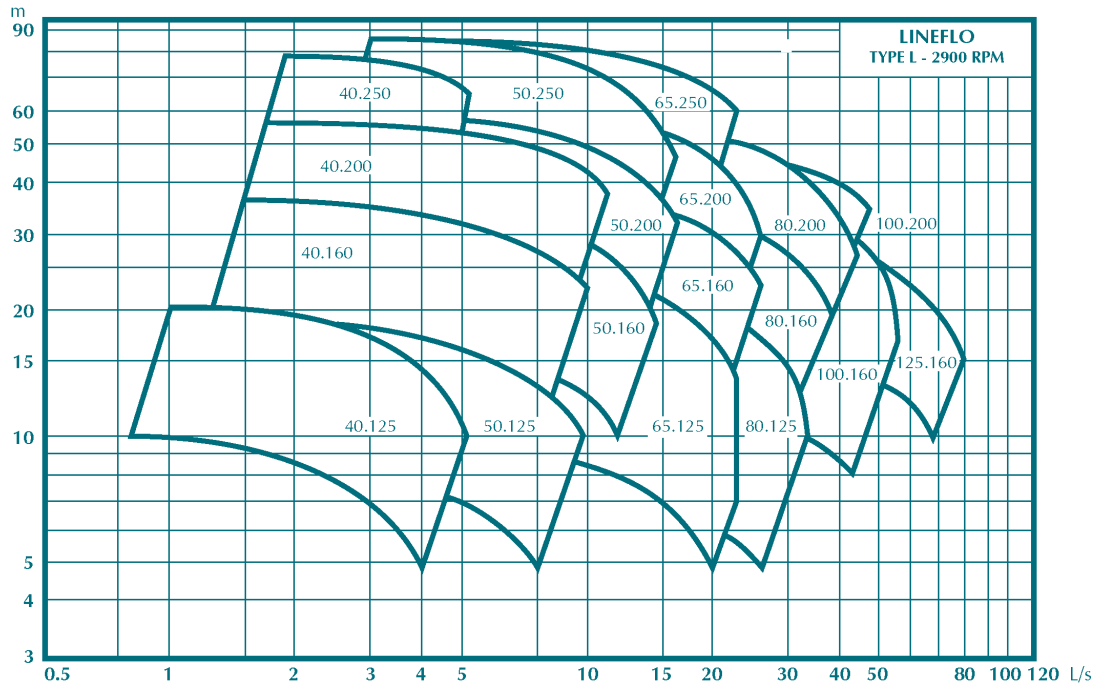
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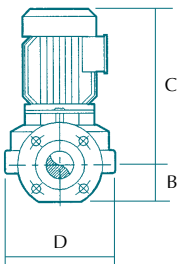
LINEFLO L 2

IN-LINE PUMPS

PERFORMANCE



Optional base



DIMENSIONS & DATA

PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET BS4504 PN10	DIMENSIONS IN MILLIMETRES				MOTOR SPEED RPM	MOTOR Kw	MASS kg
	E3	E1		A	B	C	D			
L40.125	●	○	40	320	70	380	245	2900	0.75-1.1	28
L40.160	●	○	40	320	70	380	245	2900	1.1-2.2	30
L40.200	●		40	440	95	360	325	2900	4.0-5.5	75
L40.250	●		40	440	95	505	355	2900	7.5-11	90
L50.125	●	○	50	340	70	390	245	2900	1.1-1.5	33
L50.160	●	○	50	340	70	445	245	2900	2.2-4.0	50
L50.200	●		50	440	110	480	325	2900	5.5-7.5	75
L50.250	●		50	440	110	610	395	2900	9.2-15	115
L65.125	●	○	65	340	80	450	275	2900	2.2-4.0	60
L65.160	●		65	340	80	500	290	2900	5.5-7.5	85
L65.200	●		65	475	120	515	355	2900	9.2-11	110
L65.250	●		65	475	120	605	395	2900	15-22	150
L80.125	●		80	360	90	510	290	2900	3.0-5.5	70
L80.160	●		80	360	90	525	290	2900	7.5	85
L80.200	●		80	500	130	530	355	2900	11	120
L80.200	●		80	500	130	620	395	2900	15-22	150
L100.160	●		100	450	105	570	330	2900	11	125
L100.200	●		100	550	140	630	400	2900	18.5-22	190

● Standard ○ Optional

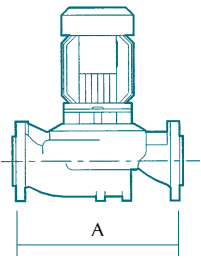
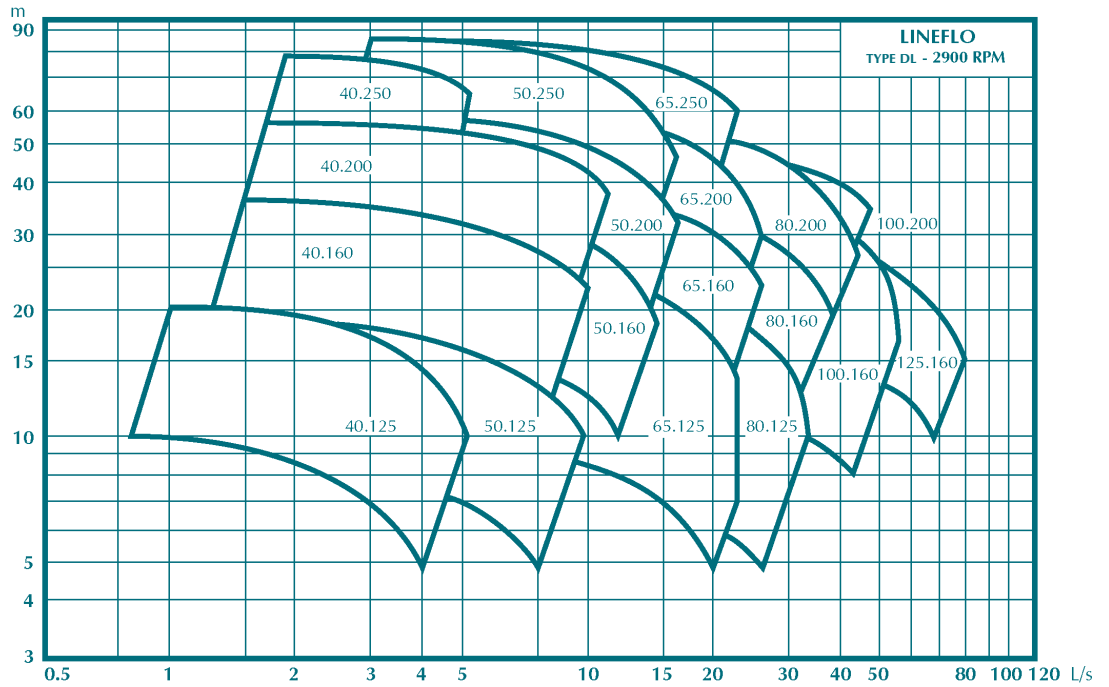
Pump coding example

TYPE CODE	PUMP SIZE	MOTOR kW/POLES	ELECTRIC SUPPLY
L (Fixed Speed)	80.125	3/2	E3
LE (Variable Speed)			

LINEFLO DL 2

TWIN IN-LINE PUMPS

PERFORMANCE



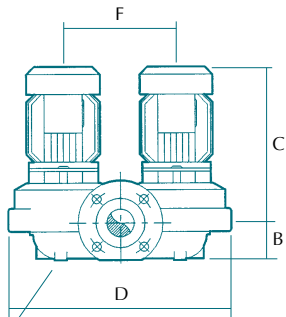
DIMENSIONS & DATA

PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET BS4504 PN10	DIMENSIONS IN MILLIMETRES						MOTOR SPEED RPM	MOTOR Kw	MASS kg
	E3	E1		A	B	C	D	F	S			
DL40.125	●	○	40	320	90	360	490	250	M12	2900	0.75-1.1	55
DL40.160	●	○	40	320	90	360	490	250	M12	2900	1.1-2.2	60
DL40.200	●		40	440	100	450	700	360	M12	2900	4.0-5.5	140
DL40.250	●		40	440	100	500	700	360	M12	2900	7.5-11	180
DL50.125	●	○	50	340	90	370	500	260	M12	2900	1.1-1.5	60
DL50.160	●	○	50	340	90	420	500	260	M12	2900	2.2-4.0	90
DL50.200	●		50	440	125	470	700	360	M12	2900	5.5-7.5	140
DL50.250	●		50	440	125	595	700	360	M12	2900	9.2-15	225
DL65.125	●	○	65	340	110	420	590	310	M12	2900	2.2-4.0	120
DL65.160	●		65	340	110	470	590	310	M12	2900	5.5-7.5	170
DL65.200	●		65	475	130	505	695	360	M12	2900	9.2-11	215
DL65.250	●		65	475	130	595	695	360	M12	2900	15-22	270
DL80.125	●		80	400	140	465	605	320	M12	2900	3.0-5.5	135
DL80.160	●		80	400	140	480	605	320	M12	2900	7.5	170
DL80.200	●		80	500	160	500	720	380	M12	2900	11	230
DL80.200	●		80	500	160	590	720	380	M12	2900	15-22	295
DL100.160	●		100	500	175	510	670	360	M12	2900	11	250
DL100.200	●		100	550	180	595	800	410	M12	2900	18.5-22	385

● Standard ○ Optional

Pump coding example

TYPE CODE	PUMP SIZE	MOTOR kW/POLES	ELECTRIC SUPPLY
DL (Fixed Speed)	80.125	3/2	E3
DLE (Variable Speed)			

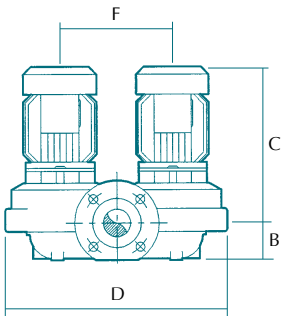
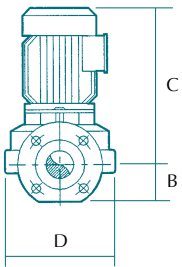
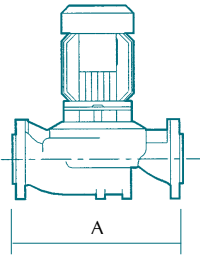


3 - S Dia TAPPED - Support bosses

LINEFLO T/DT

IN-LINE PUMPS

DIMENSIONS & DATA



PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET			DIMENSIONS IN MILLIMETRES						MOTOR SPEED RPM	MOTOR Kw	MASS kg
	E1	E3	SIZE	BS4504		A	B	C	D	E	F			
				PN6	PN10									
BT25.20	●	●	Rp1			180	24	251	54	54		1400	0.1	7
BT25.80	●	●	Rp1			180	24	251	54	54		2800	0.37	7
T32.50	●	●	Rp1/4			250	63	299	54	54		1400	0.25	14
T32.200	●	●	Rp1/4			250	63	299	54	54		2800	0.55	14
T40.30	●	●	40	●	○	250	66	306	97	82		1400	0.25	17
T40.60	●	●	40	●	○	250	66	306	97	82		2800	0.37	18
T40.90	●	●	40	●	○	250	66	306	97	82		2800	0.37	19
T40.120	●	●	40	●	○	250	66	306	97	82		2800	0.55	20
T50.30	●	●	50	●	○	280	75	315	110	94		1400	0.25	24
T50.60	●	●	50	●	○	280	75	315	110	94		1400	0.25	26
T50.90	●	●	50	●	○	280	75	315	110	94		2800	0.75	27
T50.120	●	●	50	●	○	280	75	315	110	94		2800	0.75	29
T65.30		●	65	●	○	340	82	326	130	99		1400	0.25	26
T65.60		●	65	●	○	340	82	326	130	99		1400	0.37	30
T65.90		●	65	●	○	340	82	326	130	99		2800	1.1	32
T65.120		●	65	●	○	340	82	326	130	99		2800	1.1	34
T80.30		●	80	●	○	360	97	331	130	99		1400	0.25	32
T80.60		●	80	●	○	360	97	331	130	99		1400	0.75	36
T80.90		●	80	●	○	360	97	331	130	99		2800	1.84	38
T80.120		●	80	●	○	360	97	331	130	99		2800	1.84	42
DT40.30	●	●	40	●	○	250	66	311	185	187	200	1400	0.25	40
DT40.60	●	●	40	●	○	250	66	311	185	187	200	2800	0.37	41
DT40.90	●	●	40	●	○	250	66	311	185	187	200	2800	0.37	42
DT40.120	●	●	40	●	○	250	66	311	185	187	200	2800	0.55	43
DT50.30	●	●	50	●	○	280	75	309	217	217	240	1400	0.25	44
DT50.60	●	●	50	●	○	280	75	309	217	217	240	1400	0.25	51
DT50.90	●	●	50	●	○	280	75	309	217	217	240	2800	0.75	52
DT50.120	●	●	50	●	○	280	75	309	217	217	240	2800	0.75	54
DT65.30		●	65	●	○	340	82	323	226	229	240	1400	0.25	49
DT65.60		●	65	●	○	340	82	323	226	229	240	1400	0.37	55
DT65.90		●	65	●	○	340	82	323	226	229	240	2800	1.1	57
DT65.120		●	65	●	○	340	82	323	226	229	240	2800	1.1	61
DT80.30		●	80	●	○	360	97	322	230	233	240	1400	0.25	47
DT80.60		●	80	●	○	360	97	322	230	233	240	1400	0.75	63
DT80.90		●	80	●	○	360	97	322	230	233	240	2800	1.84	68
DT80.120		●	80	●	○	360	97	322	230	233	240	2800	1.84	75

● Standard ○ Optional

Pump coding example

TYPE CODE	PUMP SIZE	MOTOR kW/POLES	ELECTRIC SUPPLY
DT (Fixed Speed)	40.120	0.55/2	E3
DTE (Variable Speed)			

To allow natural venting of the seal area, install pump sizes BT25-T32 in a vertical pipe-run pumping upwards.

Due to a policy of continual development, we reserve the right to alter specifications without prior notice.

LINEFLO 2.6