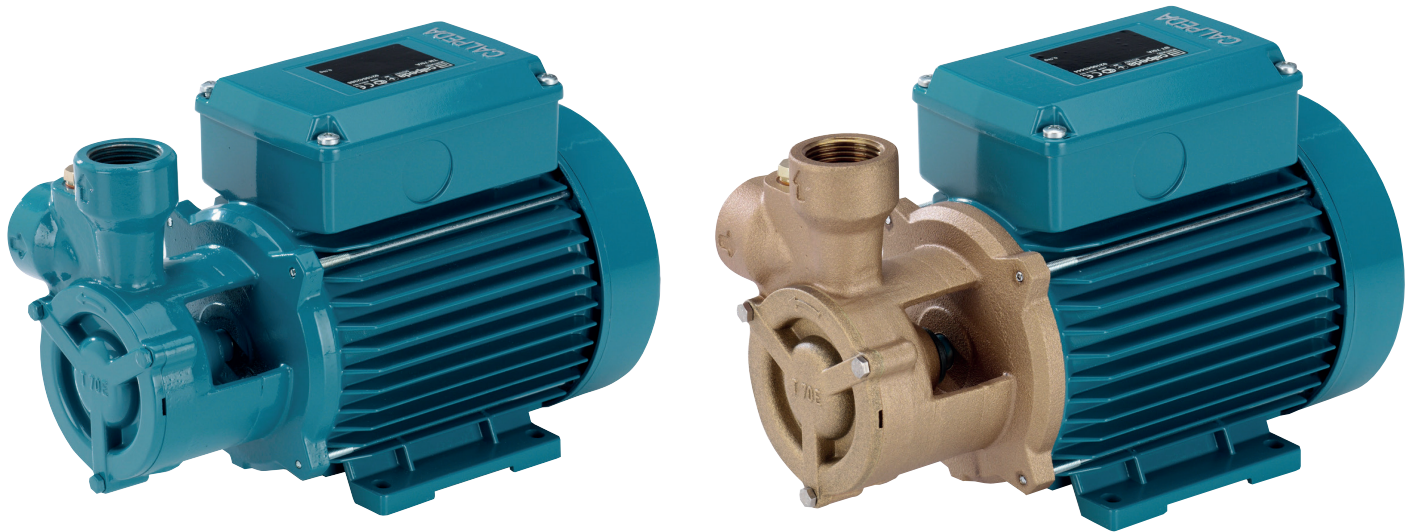
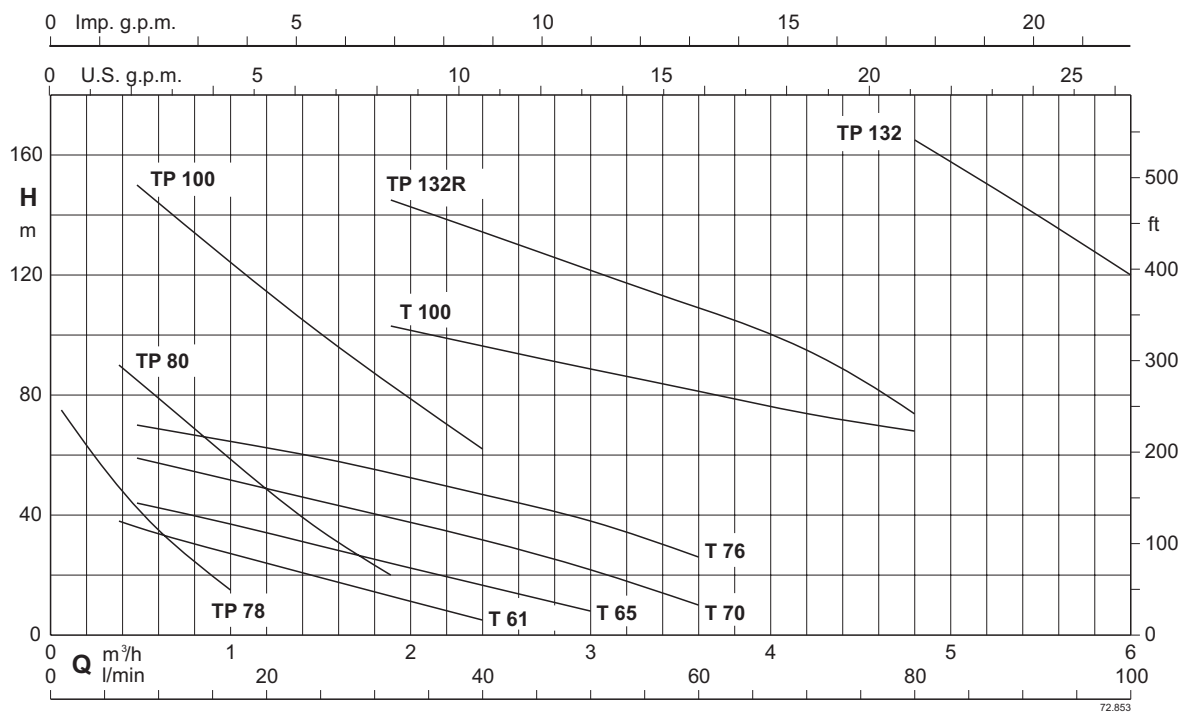


T, TP



Coverage chart $n \approx 2900$ rpm



Peripheral pumps

T, TP



Construction

Peripheral close coupled electropumps
 T, TP: version with pump casing and lantern bracket in cast iron.
 BT, BTP: version with pump body and bronze fitting.
 The pumps are supplied fully painted.

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
 Per aumentare la pressione disponibile da una rete di distribuzione (osservare le prescrizioni locali).
 For the reduced dimensions, these pumps are very well suitable to be mounted in cooling and air-conditioning machines and equipments, circulation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
 Ambient temperature up to 40° C.
 Total suction lift up to 7 m.
 Maximum permissible pressure in the pump casing: 12.5 bar, (TP 16 bar series).
 Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
T, TP: three-phase 230/400 V ± 10%.
 400/690 V ± 10%, da 4 a 7,5 kW;
TM, TPM: single-phase 230 V ± 10% with thermal protector.
 Capacitor inside the terminal box.
 Insulation class F.
 Protection IP54
IE2 efficiency class for single-phase motors.
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
 Constructed in accordance with EN 60034-1; EN 60034-30-1.
 EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
 Frequency 60 Hz (as per 60 Hz data sheet).
 IP protection: IP55
 Special mechanical seal
 Higher or lower liquid or ambient temperatures.
 Construction with bearing bracket.

Designation

BTM 61E
 B = Bronze version (without Cast Iron version indication)
 T = Series
 M = Singlephase version (no indication: threephase)
 61 = Nominal impeller diameter
 E = It refers to a revision

Materials

Component	T-TP	BCT 61
Pump casing	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Lantern bracket	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Casing cover	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
	Brass CW617N EN 12165 for T 61-65-70	Brass CW617N EN 12165 for B-T 61-70
Impeller	Brass CW617N EN 12167	Brass CW617N EN 12167
	Bronze CC480K EN 1982 per TP 132-132R	
Shaft	Steel 1.4305 EN 10088 (AISI 303) per T 76, TP 80-100	Steel 1.4401 EN 10088 (AISI 316)
	Steel 1.4104 EN 10088 (AISI 430F) per T 61-65-70-100, TP 78-132-132R	
Mechanical seal	Carbon - Ceramic - NBR	Carbon - Ceramic - NBR

Coverage chart n ≈ 2900 rpm

Three-phase

						Q = Flow																			
						m³/h	0																		
Model		230V	400V	690V	P2		l/min	1	2	4	6,33	8	10	12,5	16,6	20	25	31,5	40	50	60	70	80	90	100
		A			kW	HP	H (m) = Total head																		
BT	T 61/A	1,9	1,1	-	0,33	0,45	44,5	-	-	-	38	36	34	31,5	28	24	19	12,5	5	-	-	-	-	-	-
BT	T 65E	2,8	1,6	-	0,45	0,6	53	-	-	-	-	44	42	40	37	33	29	24	16	8	-	-	-	-	-
BT	T 70/B	3,7	2,2	-	0,75	1	67,5	-	-	-	-	59	57	55	51	48	43	38	30	22	10	-	-	-	-
BT	T 76/A	5,3	3,1	-	1,1	1,5	78	-	-	-	-	70	68	67	65	62	58	53	46	38	26	-	-	-	-
BTP	TP 78/A	2,3	1,3	-	0,37	0,5	82	75	70	60	50	42	35	25	15	-	-	-	-	-	-	-	-	-	-
BTP	TP 80E	4	2,3	-	0,75	1	115	-	-	-	90	85	79	73	61	48	34	20	-	-	-	-	-	-	-
BTP	TP 100/B	9,6	5,5	-	2,2	3	184	-	-	-	-	150	144	136	125	115	100	84	62	-	-	-	-	-	-
BT	T 100/A	11,5	6,6	-	3	4	124,5	-	-	-	-	-	-	-	-	-	-	103	97	89	82	75	68	-	-
BTP	TP 132R/A	-	10,8	6,2	5,5	7,5	186	-	-	-	-	-	-	-	-	-	-	145	135	120	110	95	70	-	-
BTP	TP 132/A	-	14,3	8,3	7,5	10	372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165	143	120

Single-phase

						Q = Flow														
						m³/h	0													
Model		230V	P2		P1	l/min	1	2	4	6,33	8	10	12,5	16,6	20	25	31,5	40	50	60
		A	kW	HP	kW	H (m) = Total head														
BTM	TM 61E	2,5	0,33	0,45	0,52	44,5	-	-	-	38	36	34	31,5	28	24	19	12,5	5	-	-
BTM	TM 65E	3,5	0,45	0,6	0,67	53	-	-	-	-	44	42	40	37	33	29	24	16	8	-
BTM	TM 70/A	5,7	0,75	1	1,01	67,5	-	-	-	-	59	57	55	51	48	43	38	30	22	10
BTM	TM 76E	7,4	1,1	1,5	1,44	78	-	-	-	-	70	68	67	65	62	58	53	46	38	26
BTPM	TPM 78/A	2,8	0,37	0,5	0,57	82	75	70	60	50	42	35	25	15	-	-	-	-	-	-
BTPM	TPM 80E	5,8	0,75	1	1,01	115	-	-	-	90	85	79	73	61	48	34	20	-	-	-

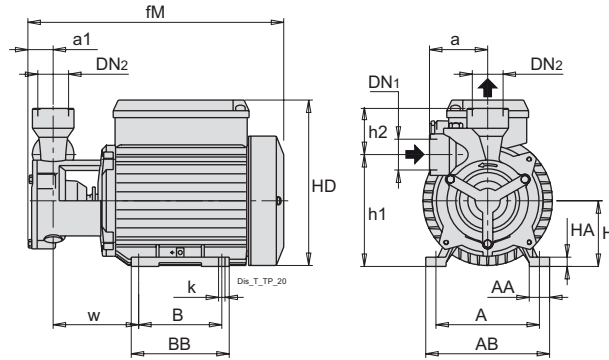
P1: Maximum power input.

P2: Rated motor power output.

H: Total head in m

T, TP

Dimensions and weights



TYPE	ISO 228		mm															kg
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
T 61/A	G 1	G 1	58	100	24	22	122	80	96	244	63	108	45	8	160	7	80	6.2
T 65E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	45	8	160	7	80	7
T 70/B	G 1	G 1	63	112	24	22	134	90	106	278	71	121	50	10	182	7	93	10.8
TP 78/A	G 1/2	G 1/2	56	112	22	22	134	90	106	276	71	127	24	10	182	7	93	8.2

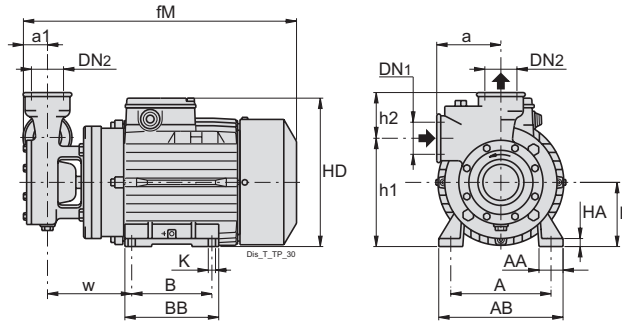
TYPE	ISO 228		mm															kg
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
TM 61E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	65	8	160	7	80	5.3
TM 65E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	65	8	160	7	80	7.2
TM 70/A	G 1	G 1	63	112	24	22	134	90	106	278	71	121	50	10	182	7	93	10.8
TPM 78/A	G 1/2	G 1/2	56	112	22	22	134	90	106	276	71	127	24	10	182	7	93	8.2

TYPE	ISO 228		mm															kg
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
BT 61/A	G 1	G 1	58	100	24	22	122	80	96	244	63	108	45	8	160	7	80	6.4
BT 65E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	45	8	160	7	80	7.3
BT 70/B	G 1	G 1	63	112	24	22	134	90	106	278	71	121	50	10	182	7	93	11.1
BTP 78/A	G 1/2	G 1/2	56	112	22	22	134	90	106	276	71	127	24	10	182	7	93	8.6

TYPE	ISO 228		mm															kg
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
BTM 61E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	65	8	160	7	80	5.9
BTM 65E	G 1	G 1	58	100	24	22	122	80	96	244	63	108	65	8	160	7	80	7.4
BTM 70/A	G 1	G 1	63	112	24	22	134	90	106	278	71	121	50	10	182	7	93	11.1
BTPM 78/A	G 1/2	G 1/2	56	112	22	22	134	90	106	276	71	127	24	10	182	7	93	8.7

T, TP

Dimensions and weights



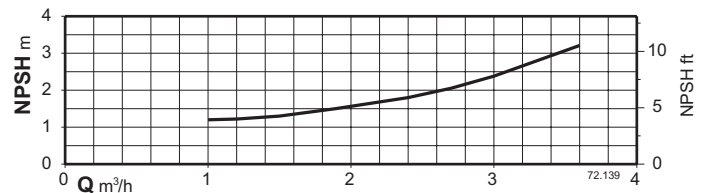
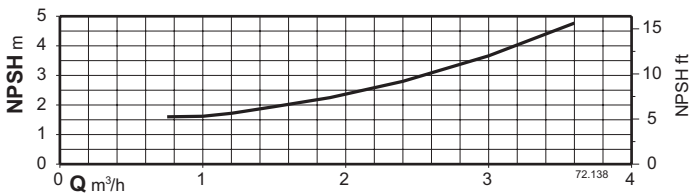
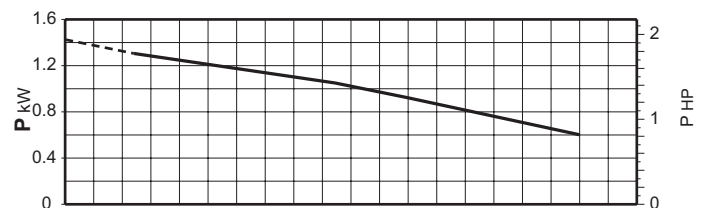
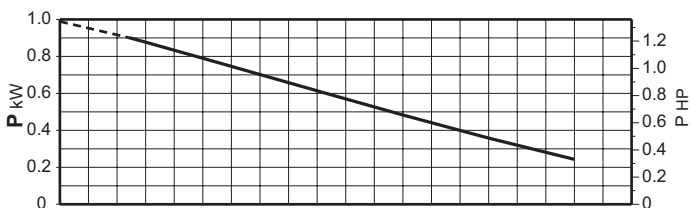
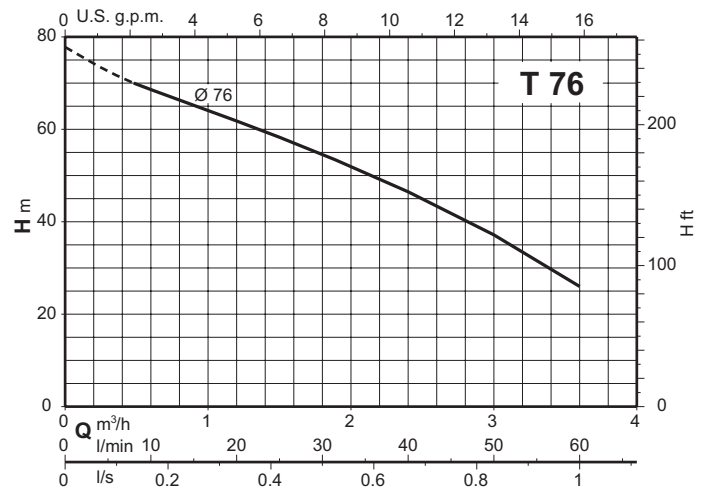
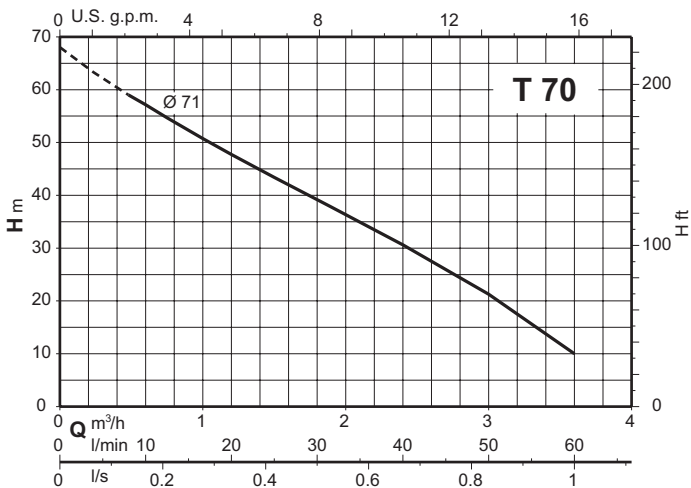
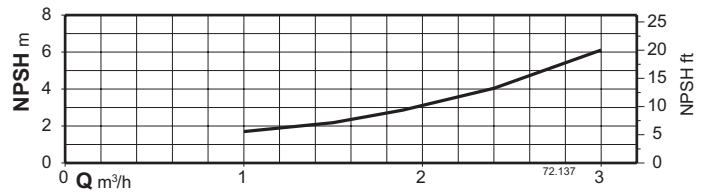
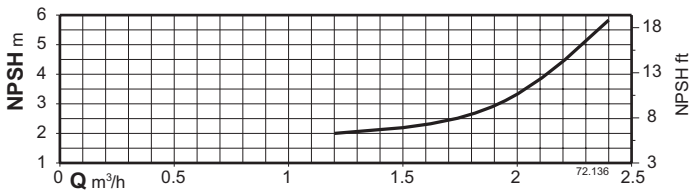
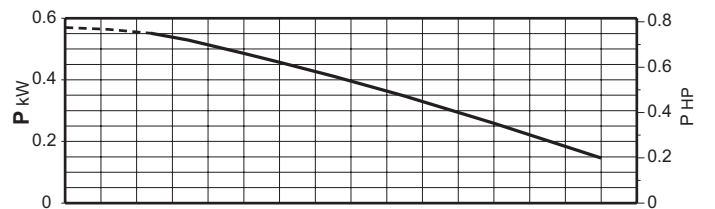
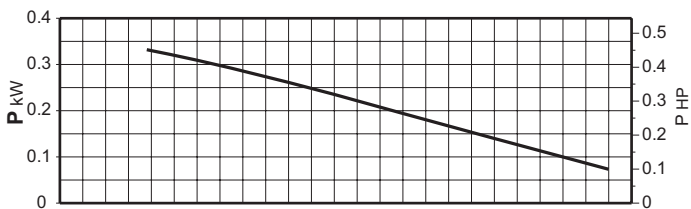
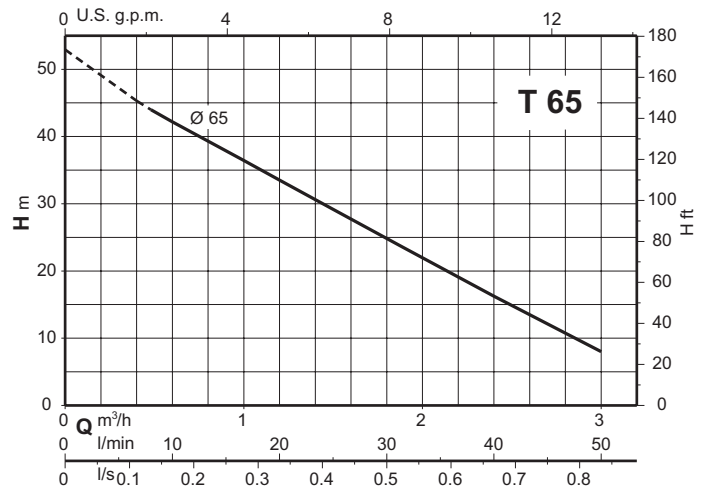
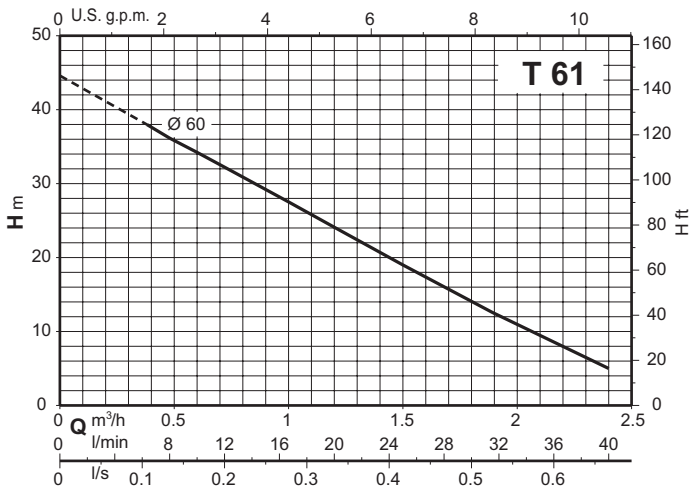
TYPE	ISO 228		mm														kg	
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
T 76/A	G 1 1/4	G 1 1/4	80	125	26	30	155	100	117	338	80	136	56	10	208	9	105	16.5
T 100/A	G 1 1/4	G 1 1/4	95	140	32	40	180	125	152	410	90	161	59	12	226	9.5	121	29.5
TP 80E	G 3/4	G 3/4	60	125	27	30	155	100	117	332	80	135	35	10	208	9	104	13.8
TP 100/B	G 3/4	G 3/4	65	125	27	30	155	100	117	387	80	142	38	10	208	9	113	22.1
TP 132R/A	G 1 1/4	G 1 1/4	100	190	42	50	230	140	180	485	112	202	70	14	272	11.5	183	57.1
TP 132/A	G 1 1/4	G 1 1/4	100	190	42	50	230	140	180	485	112	202	70	14	272	11.5	183	62.1

TYPE	ISO 228		mm														kg	
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
TM 76E	G 1 1/4	G 1 1/4	80	125	26	30	155	100	117	338	80	136	56	10	208	9	105	18
TPM 80E	G 3/4	G 3/4	60	125	27	30	155	100	117	332	80	135	35	10	208	9	104	16

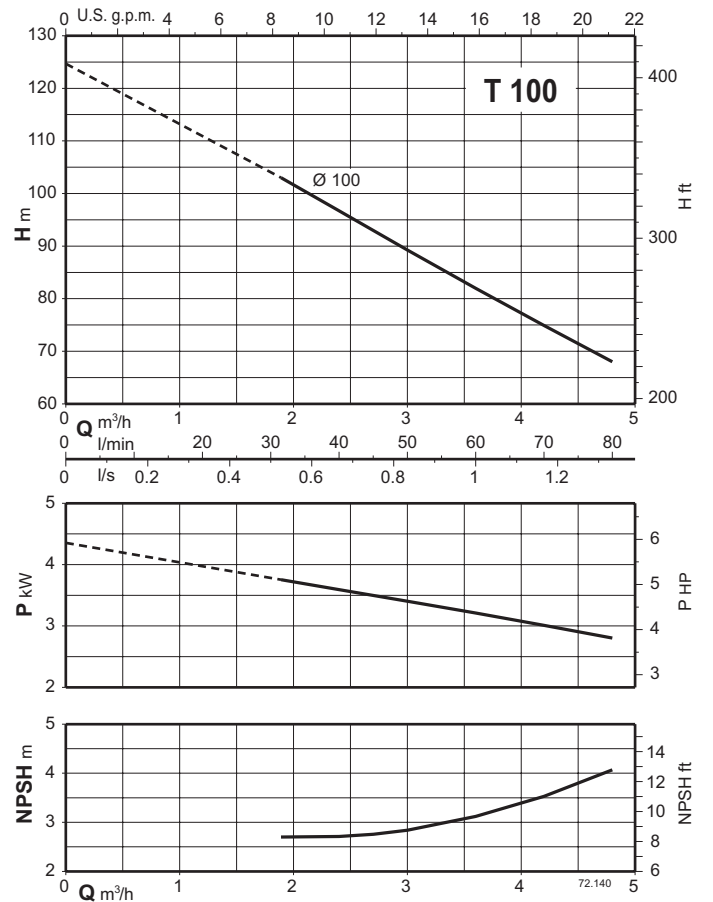
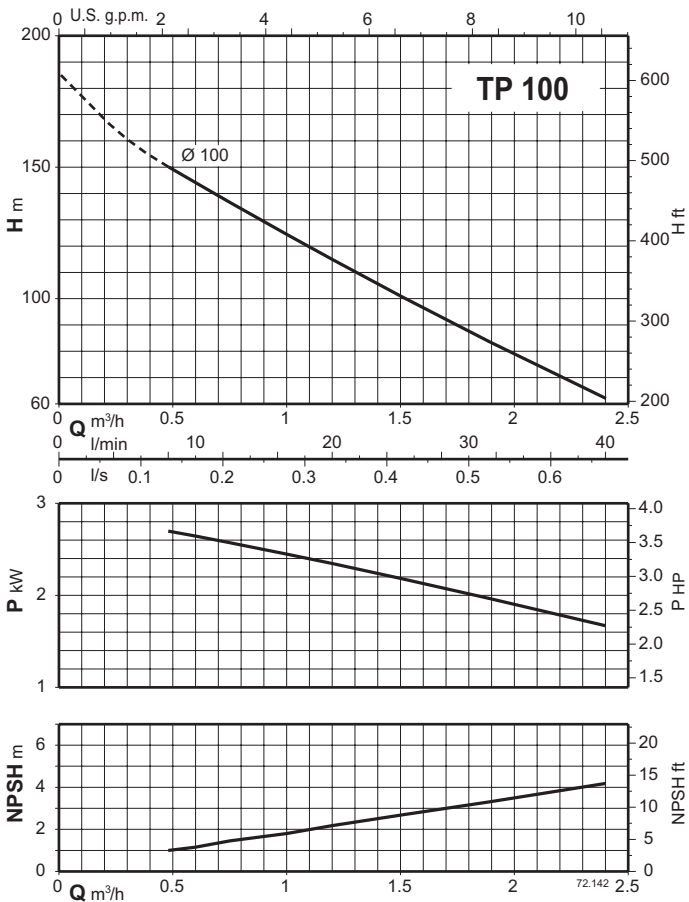
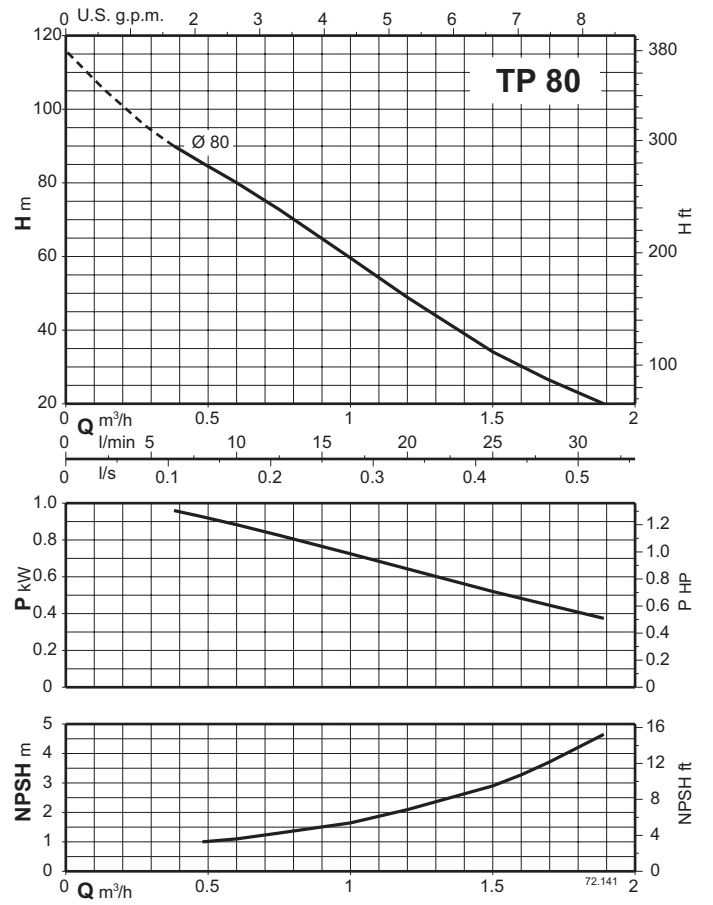
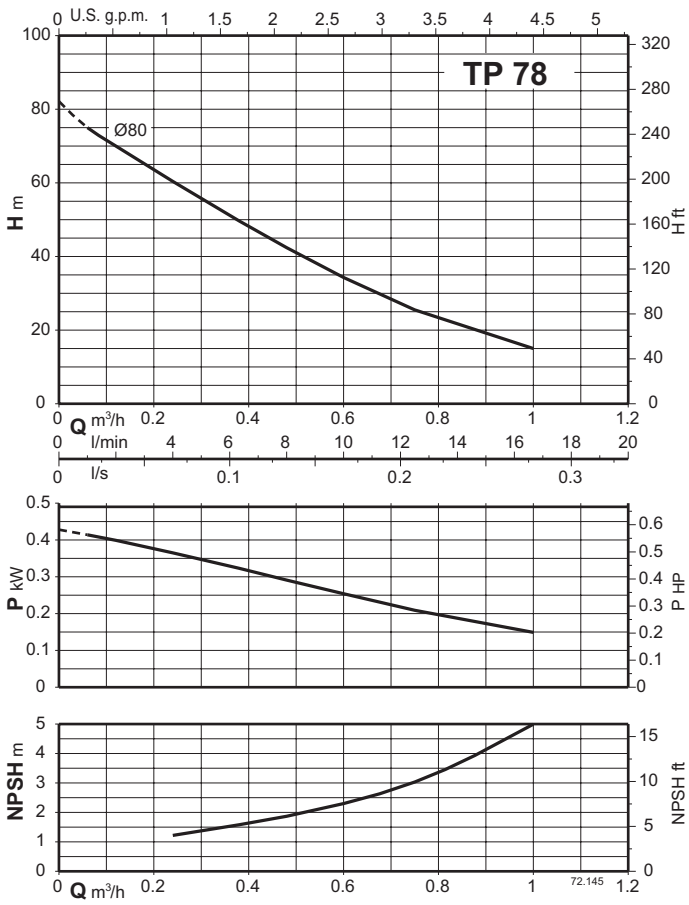
TYPE	ISO 228		mm														kg	
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
BTP 80E	G 3/4	G 3/4	60	125	27	30	155	100	117	332	80	135	35	10	208	9	104	14.4

TYPE	ISO 228		mm														kg	
	DN1	DN2	a	A	a1	AA	AB	B	BB	fM	H	h1	h2	HA	HD	K	w	Weight
BTPM 80E	G 3/4	G 3/4	60	125	27	30	155	100	117	332	80	135	35	10	208	9	104	15.5

T, TP



T, TP



T, TP

