

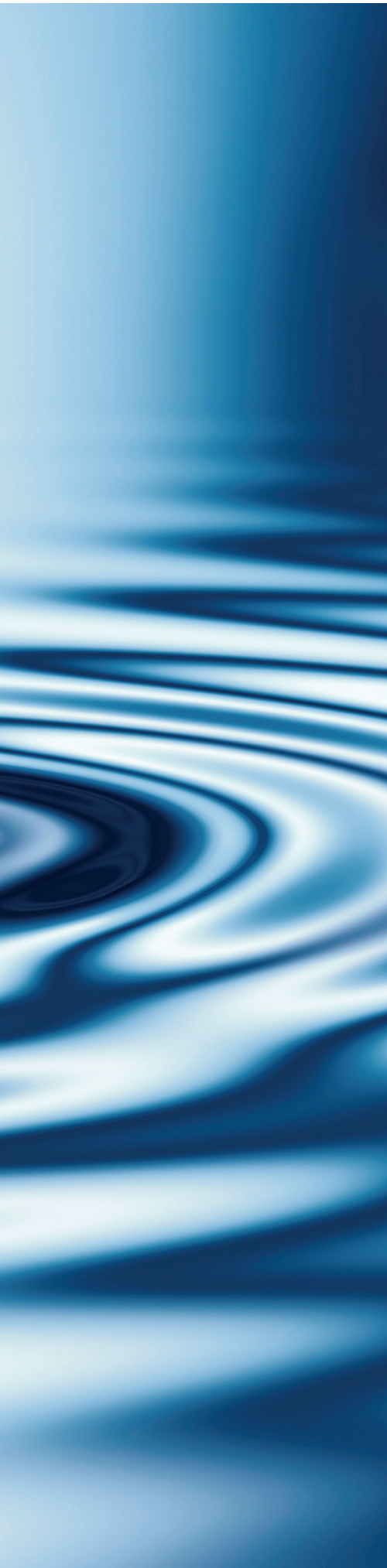
# SPCO

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## UGP

Plastic Pumps, 60Hz



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## Pump Material

Discharge Head and Motor Adapter are Precision machined cast 304 stainless steel for superior strength and durability.

The motor adapter is NEMA standard.

Impellers are floating type made with Noryl for superior handling together with glass filled polycarbonate diffusers make the super strong pumps for maximum wear and abrasive resistance.

The materials are FDA compliant materials.

Impeller Bowls are made from Stainless steel 304, maximizing wear from abrasion.

Shaft Coupling is made from stainless steel 304 for easy alignment to the motor shaft.

Strainer is made from stamped stainless steel 304 for rigidity.

Non-Return valve made from stainless steel 304, fitted in the discharge to prevent any back flow of water and alleviate any water hammer to the pumps.

Pump shaft is made from hex stainless steel 304 bar material for high corrosion resistance.

Pump body is covered by a 1.5mm thick 304 polished stainless steel casing, ensures optimum resistance to abrasion.

Bearing is made with Polyacetal for strong wear and abrasive resistance.



## Applications

- Water Supply.
- Irrigation.
- Pressure Boosting.

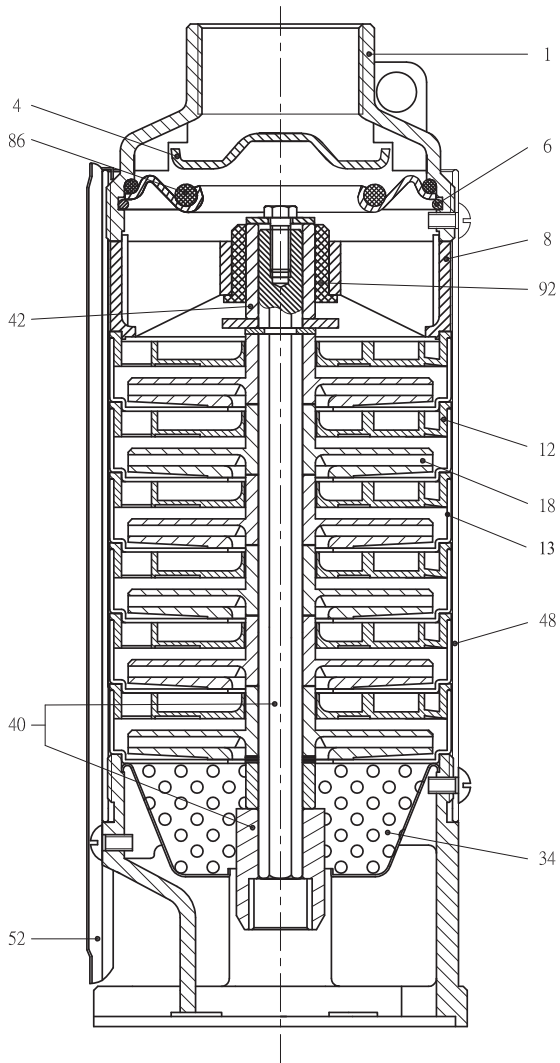
## Operation Condition

Max voltage variation	+10% / -10%
Max. starts /h	40
Max water temperature	35 C
Flow rate	0.08m/sec
Axial thrust	2000N from 0.37kW to 2.2kW
	3000N 2.2kW
	5000N from 3kW to 7.5kW
Max. immersion depth	200m

## Motor

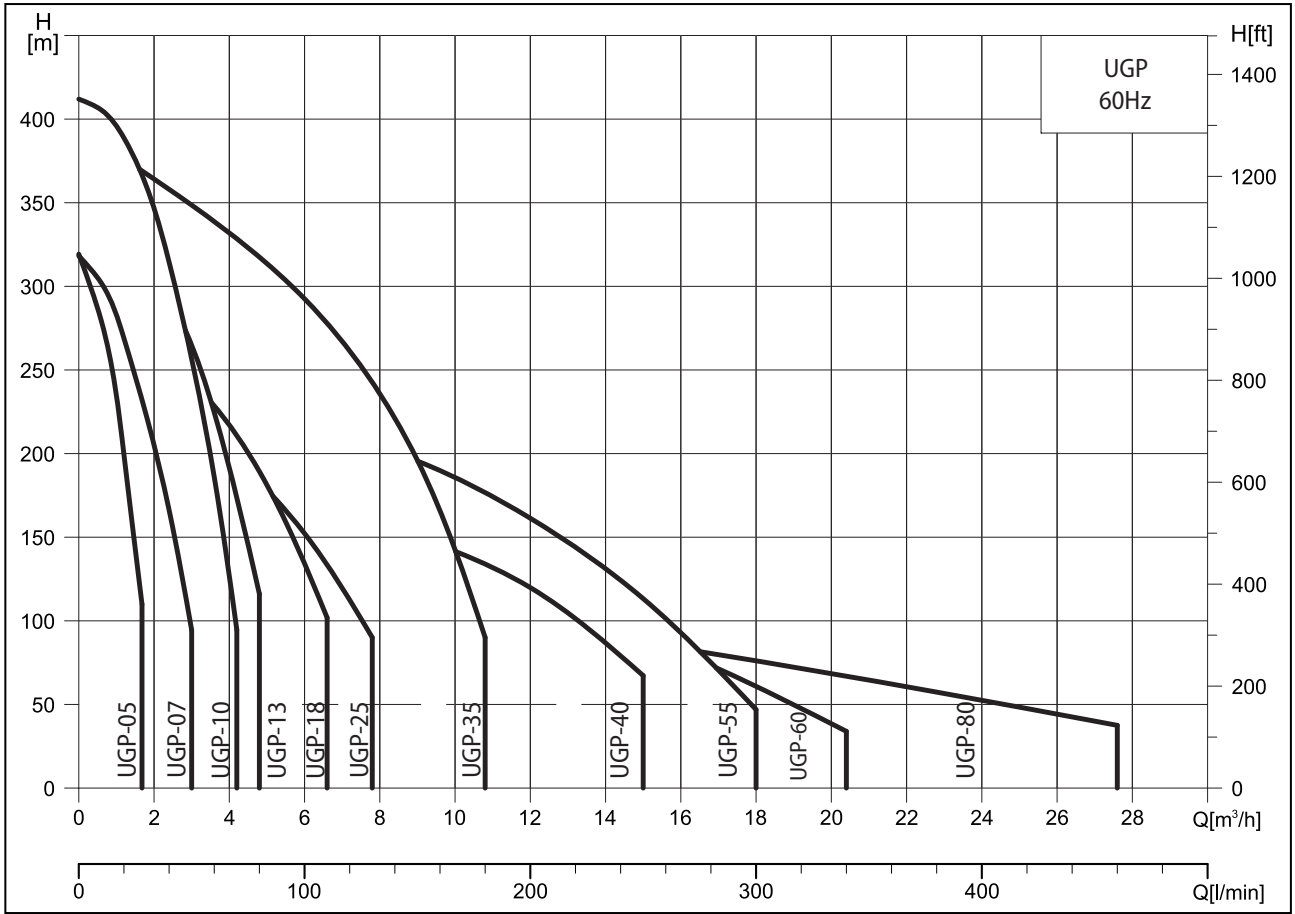
Flange	4" NEMA standard
Degree of protection	IP 68
Insulation class	Class F
Single Phase motor	0.37kW to 4kW
Three Phase Motor	0.37kW to 7.5kW
Standard Voltages	1- 115V,220V-230V
	3- 230V or 400V
Cable length	1.7M 0.37kW to 1.5kW

# Material Specification

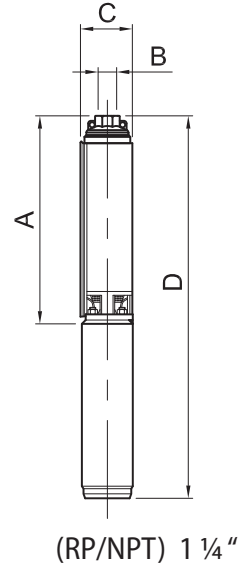
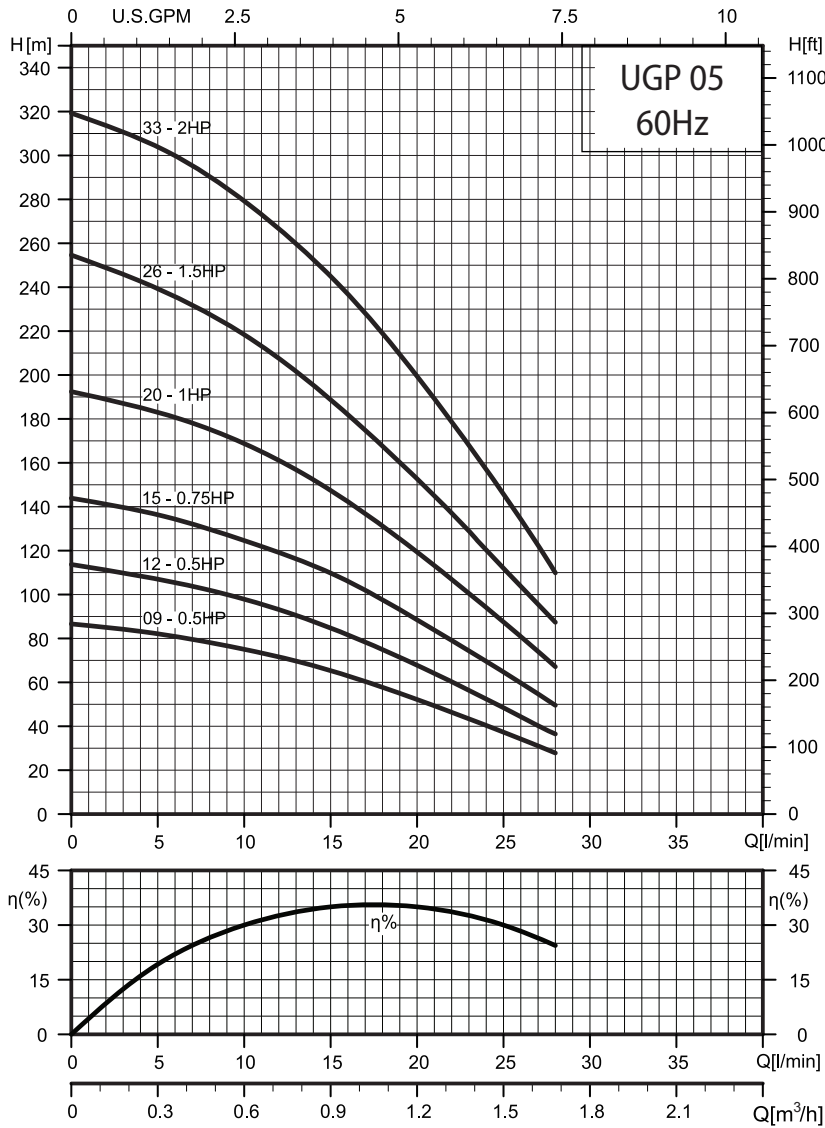


Pos.	Part Name	Material
01	Discharge Head	AISI 304 SS
04	Check Valve Cone	AISI 304 SS
06	Check Valve retaining Ring	AISI 304 SS
08	Bearing Spider	Glass Filled Polycarbonate
12	Diffuser	Glass Filled Polycarbonate
13	Bowl	AISI 304 SS
18	Impeller	Noryl
34	Strainer	AISI 304 SS
40	Pump Shaft/ Coupling	AISI 304 SS
42	Shaft Sleeve	AISI 304 SS or Noryl
48	Pump Casing	AISI 304 SS
52	Cable Guard	AISI 304 SS
86	O-Ring	NBR
92	Bearing	Polyacetal

# Performance Range



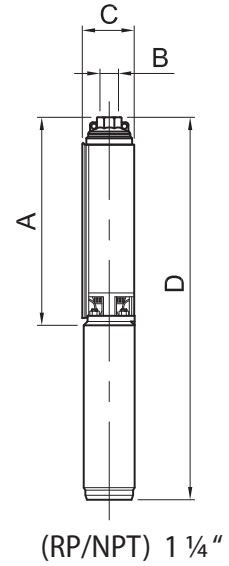
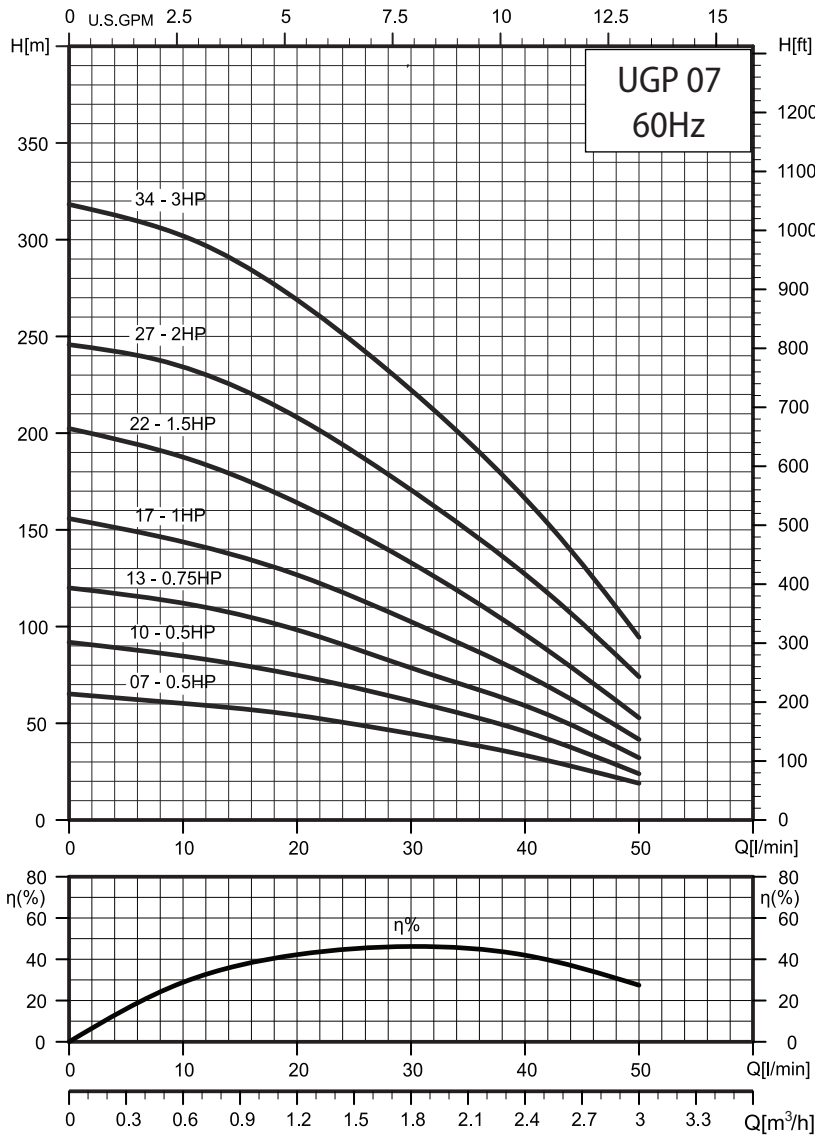
# Performance Curves



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY							Pump	Electro Pump	
				L/Min 0	10	15	20	25	30	35		Weight	
		KW	HP	m³/h 0	0.6	0.9	1.2	1.5	1.8	2.1	1 Ø	3 Ø	
H= TOTAL HEAD IN METERS													
UGP-0509	9	0.37	0.5	87	75	65	52	38	21		3.1	10.4	9.8
UGP-0512	12	0.37	0.5	114	98	85	68	49	28		3.6	10.9	10.3
UGP-0515	15	0.55	0.75	144	124	110	89	65	39		4.1	12.3	11.5
UGP-0520	20	0.75	1.0	193	169	148	120	88	53		4.9	13.7	13.1
UGP-0526	26	1.1	1.5	255	219	179	152	112	68		5.8	15.8	14.7
UGP-0533	33	1.5	2.0	320	280	245	200	145	82		7.3	18.8	17.3

# Performance Curves

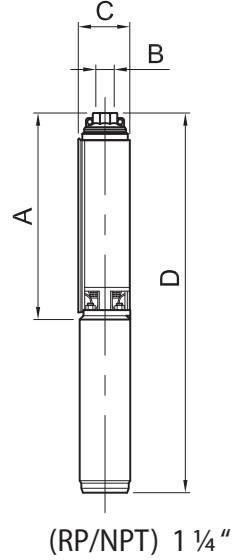
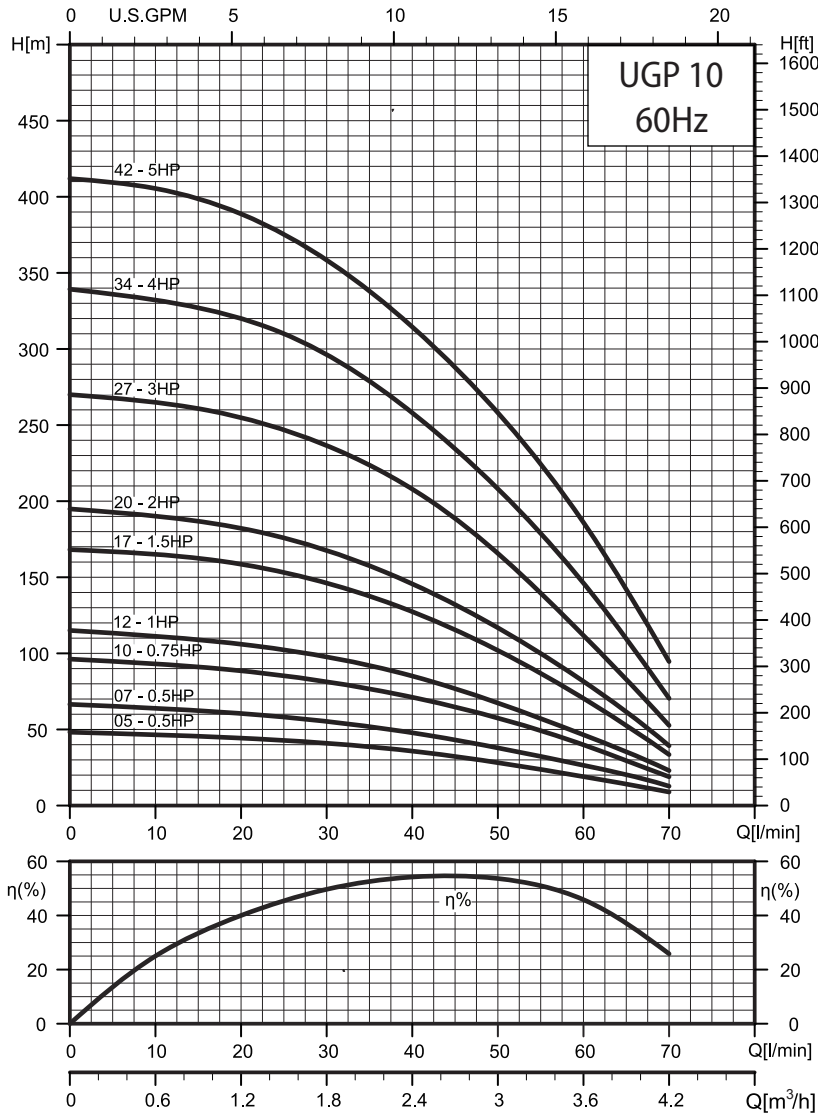


# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY												
		KW	HP	L/Min	10	15	20	25	30	35	40	50	60	Pump	Electro Pump	
				m³/h	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	Weight	1 Ø	3 Ø
				H= TOTAL HEAD IN METERS												
UGP-0707	7	0.37	0.5	66		57	54	49	44	39	33	19		2.7	10	9.4
UGP-0710	10	0.37	0.5	92		80	75	68	62	54	47	24		3.3	10.6	10
UGP-0713	13	0.55	0.75	120		106	98	89	79	69	59	32		3.8	12	11.2
UGP-0717	17	0.75	1	156		136	127	115	102	89	75	42		4.5	13.3	12.7
UGP-0722	22	1.1	1.5	203		177	165	150	133	115	97	53		5.4	15.4	14.3
UGP-0727	27	1.5	2	246		223	208	190	171	150	127	74		6.6	18.1	16.6
UGP-0734	34	2.2	3	318		288	269	247	223	196	167	95		8.3	22.3	19.9



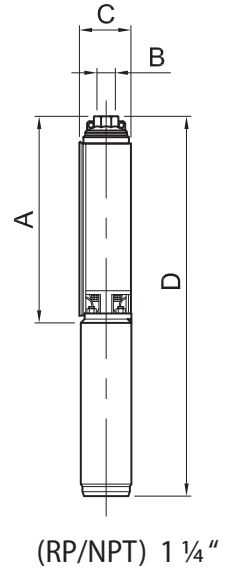
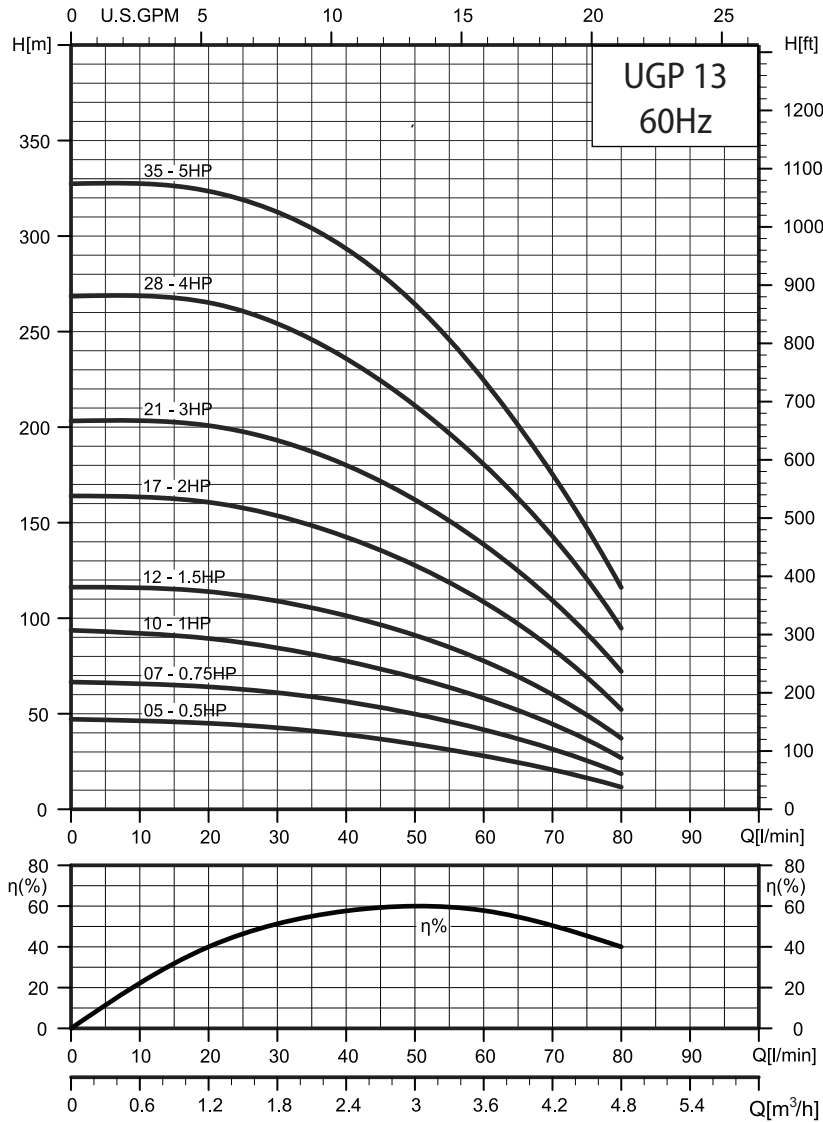
# Performance Curves



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY												Pump		Electro Pump	
		KW	HP	L/Min 0	15	20	25	30	35	40	50	60	70	80	Weight	1 Ø	3 Ø		
				m³/h 0	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8					
H= TOTAL HEAD IN METERS																			
UGP-1005	5	0.37	0.5	48		44	42	40	38	36	29	19	9		2.5	9.8	9.2		
UGP-1007	7	0.37	0.5	67		60	58	55	52	49	39	27	13		2.8	10.1	9.5		
UGP-1010	10	0.55	0.75	96		89	85	81	77	71	58	40	19		3.3	11.5	10.7		
UGP-1012	12	0.75	1	115		106	102	98	92	85	68	47	23		3.6	12.4	11.8		
UGP-1017	17	1.1	1.5	168		159	152	147	138	128	102	70	35		4.4	14.4	13.3		
UGP-1020	20	1.5	2	195		181	177	168	158	146	118	82	40		4.9	16.4	14.9		
UGP-1027	27	2.2	3	270		255	247	237	223	209	167	111	53		6	20	17.6		
UGP-1034	34	3	4	339		320	310	296	280	259	209	146	70		7.5	26.9	22.7		
UGP-1042	42	3.7	5	412		389	375	358	338	315	258	186	95		8.8	31.5	N/A		

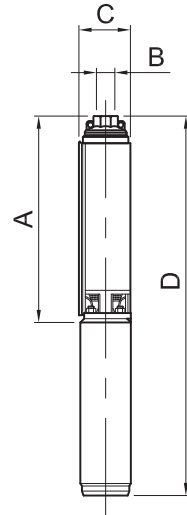
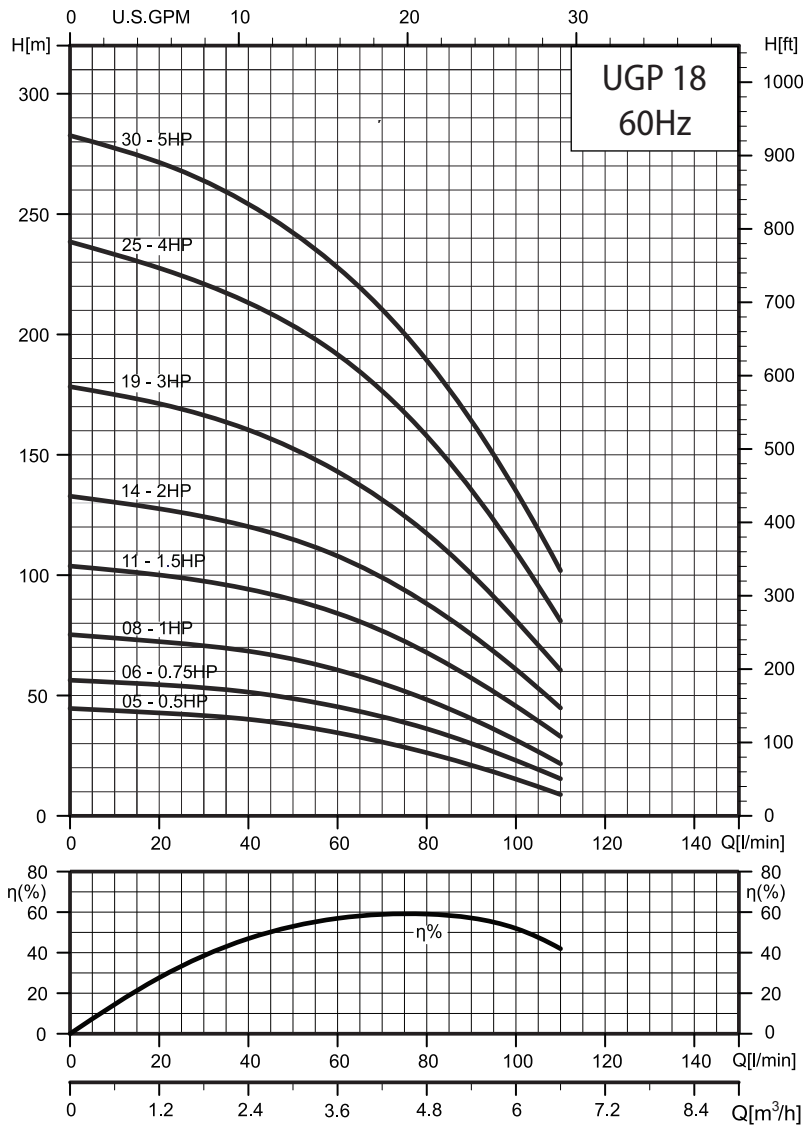
# Performance Curves



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY												Pump	Electro Pump	
		KW	HP	L/Min	25	30	35	40	50	60	70	80	90	Weight				
				m <sup>3</sup> /h	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	1 Ø	3 Ø			
H= TOTAL HEAD IN METERS																		
UGP-1305	5	0.37	0.5	47		42	40	39	34	28	21	12		2.5	9.8	9.2		
UGP-1307	7	0.55	0.75	67		61	59	57	50	41	31	19		2.8	11	10.2		
UGP-1310	10	0.75	1.0	94		85	81	78	69	58	45	28		3.2	12	11.4		
UGP-1312	12	1.1	1.5	116		109	106	102	91	78	60	38		3.5	13.5	12.4		
UGP-1317	17	1.5	2.0	165		154	148	143	128	109	83	53		4.3	15.8	14.3		
UGP-1321	21	2.2	3.0	204		193	187	180	162	139	110	72		5	19	16.6		
UGP-1328	28	3.0	4.0	269		254	246	236	211	180	142	96		6	25.4	21.2		
UGP-1335	35	3.7	5.0	327		312	304	292	264	223	175	117		7.6	30.3	N/A		

# Performance Curves

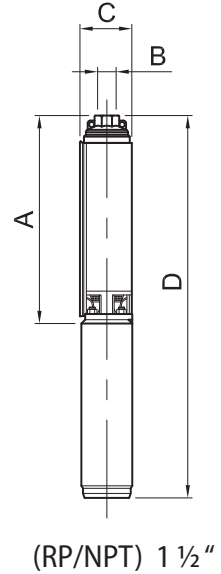
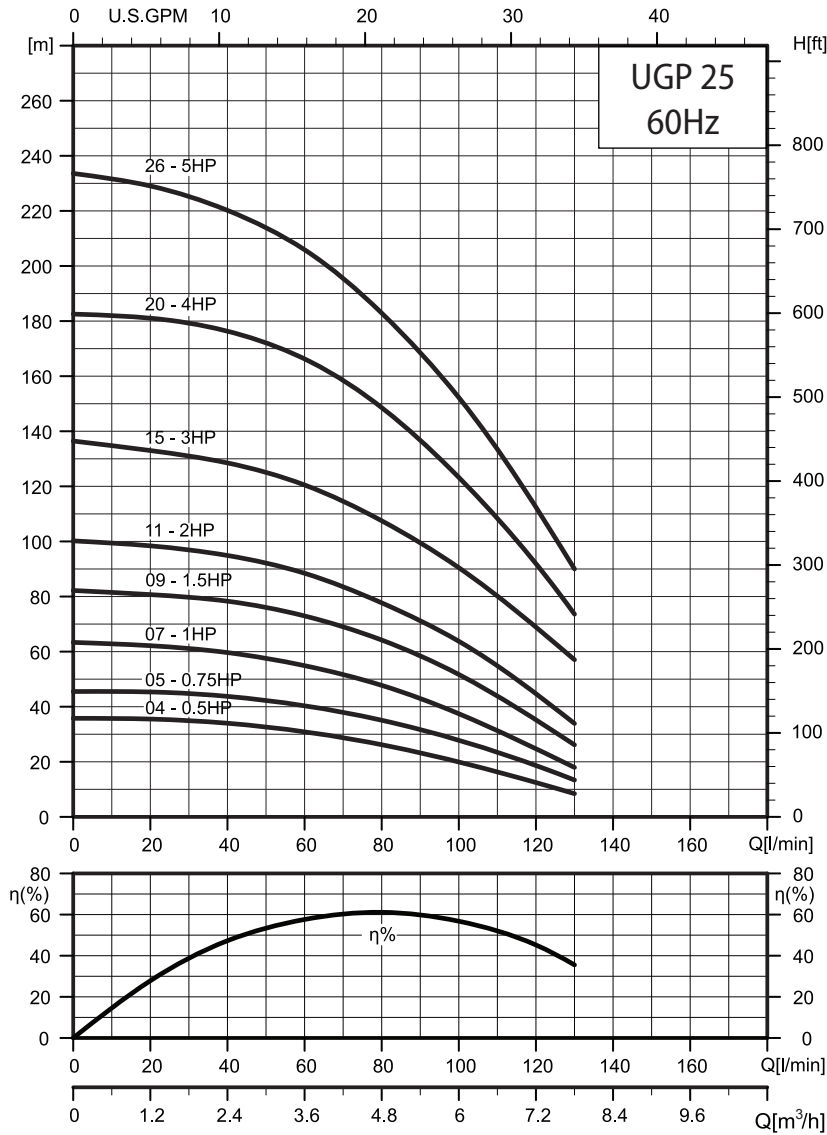


(RP/NPT) 1 1/4"

# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY												Pump	Electro Pump	
		KW	HP	L/Min	30	35	40	50	60	70	80	90	100	110	6.6		Weight	
				m³/h	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0		1 Ø	3 Ø		
UGP-1805	5	0.37	0.5	45		41	40	38	35	31	27	21	15	9	2.7	10	9.4	
UGP-1806	6	0.55	0.75	56		53	52	49	45	41	37	30	23	16	2.8	11	10.2	
UGP-1808	8	0.75	1.0	75		70	68	65	61	55	49	41	32	22	3.1	11.9	11.3	
UGP-1811	11	1.1	1.5	104		96	94	90	84	77	68	58	46	33	3.6	13.6	12.5	
UGP-1814	14	1.5	2.0	133		123	120	115	108	99	88	75	61	45	4.1	15.6	14.1	
UGP-1819	19	2.2	3.0	178		164	160	153	143	131	117	100	81	61	4.9	18.9	16.5	
UGP-1825	25	3.0	4.0	238		217	213	204	192	176	158	136	110	81	5.9	25.3	21.1	
UGP-1830	30	3.7	5.0	283		260	254	242	228	210	189	164	135	102	7.1	29.8	N/A	

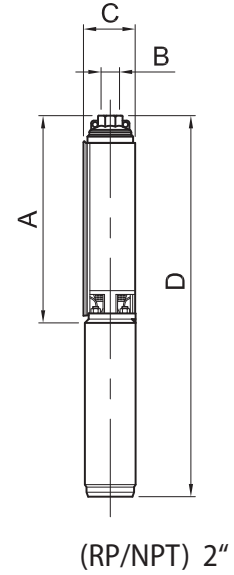
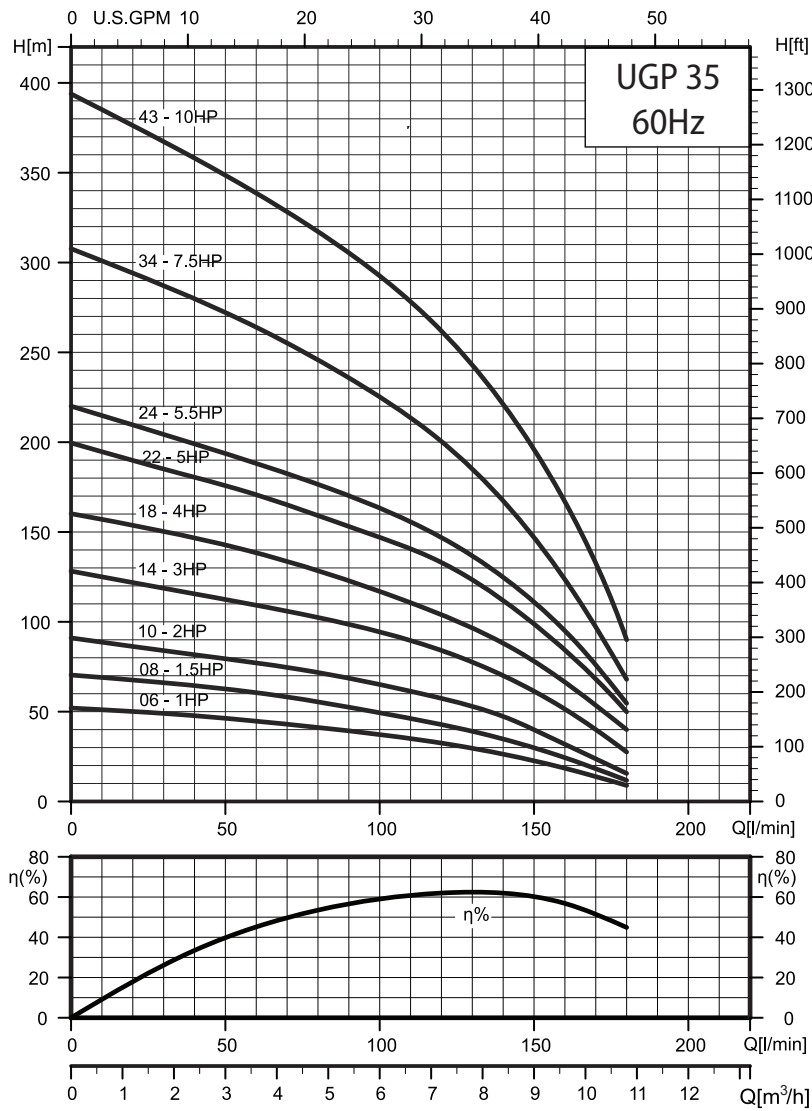
# Performance Curves



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY										Pump		Electro Pump	
		KW	HP	L/Min	40	50	60	70	80	90	100	120	140	1 Ø	3 Ø		
				m³/h	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4				
H= TOTAL HEAD IN METERS																	
UGP-2504	4	0.37	0.5	36		33	31	29	27	23	20	12		2.4	9.7	9.1	
UGP-2505	5	0.55	0.75	46		42	40	38	35	32	28	19		2.6	10.8	10	
UGP-2507	7	0.75	1.0	63		58	55	52	48	43	37	25		3.1	11.9	11.3	
UGP-2509	9	1.1	1.5	82		76	73	69	64	58	52	35		3.5	13.5	12.4	
UGP-25-11	11	1.5	2.0	100		92	88	84	78	71	64	45		3.9	15.4	13.9	
UGP-2515	15	2.2	3.0	136		125	121	115	107	100	90	69		4.7	18.7	16.3	
UGP-2520	20	3.0	4.0	183		172	166	158	148	137	122	92		5.8	25.2	21	
UGP2526	26	3.7	5.0	234		214	206	196	183	169	152	112		7.1	29.8	N/A	

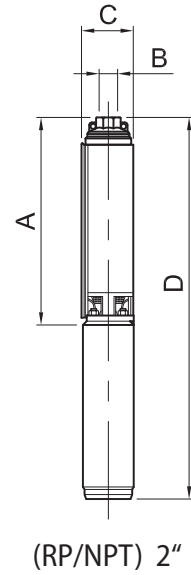
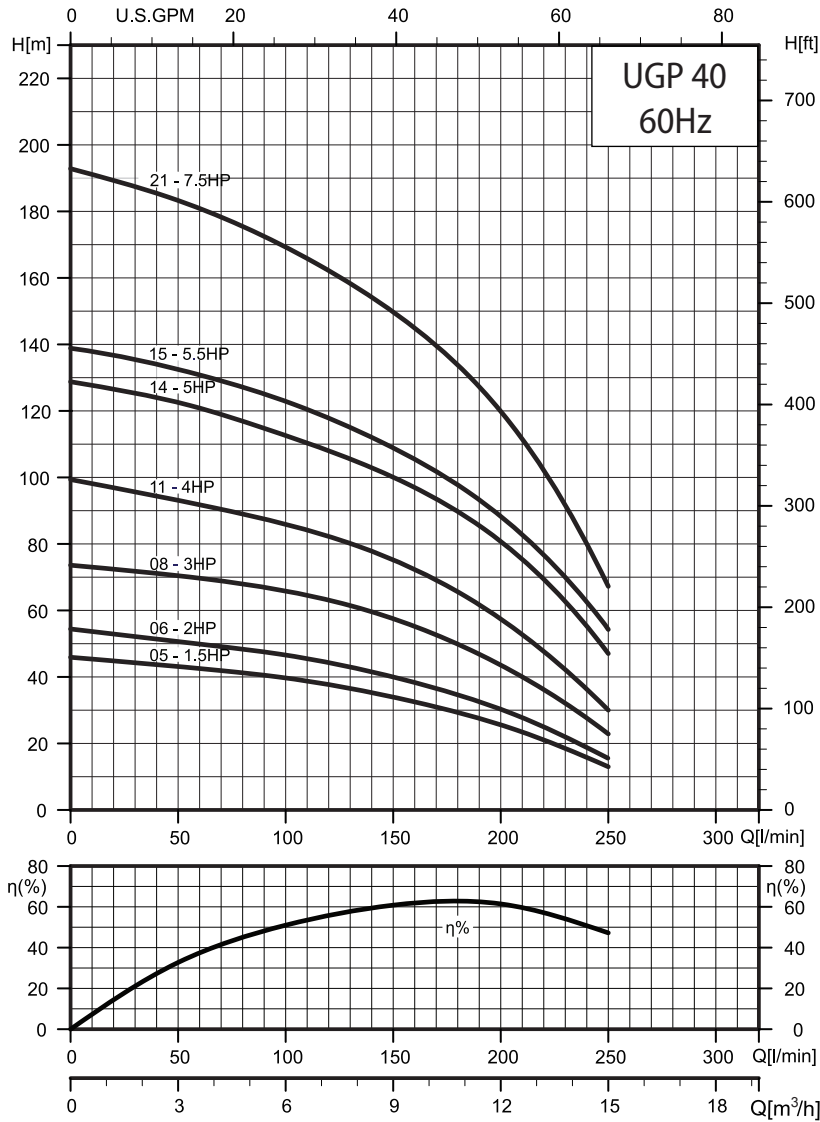
# Performance Curve



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY													Pump		Electro Pump	
		KW	HP	L/Min	50	60	70	80	90	100	120	140	160	180	200	Weight	1 Ø	3 Ø		
				m <sup>3</sup> /h	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12					
H= TOTAL HEAD IN METERS																				
UGP-3506	6	0.75	1.0	52		44	43	42	40	38	33	27	18	9		3.4	12.2	11.6		
UGP-3508	8	1.1	1.5	70		60	58	55	52	50	43	35	24	12		4	14	12.9		
UGP-3510	10	1.5	2.0	91		77	75	72	69	65	58	48	32	17		4.6	16.1	14.6		
UGP-3514	14	2.2	3.0	128		109	106	102	99	94	83	70	51	29		5.7	19.7	17.3		
UGP-3518	18	3.0	4.0	160		139	133	129	123	117	104	89	67	40		6.9	26.3	22.1		
UGP-3522	22	3.7	5.0	200		170	165	159	152	147	132	111	84	50		8.1	30.8	N/A		
UGP-3524	24	4.0	5.5	220		189	182	177	170	162	148	125	95	55		8.7	31.5	28.2		
UGP-3534	34	5.5	7.5	308		263	255	246	236	225	200	167	122	69		11.6	N/A	34.7		
UGP-3543	43	7.5	10	394		339	328	317	305	292	261	220	167	90		14.2	N/A	41.7		

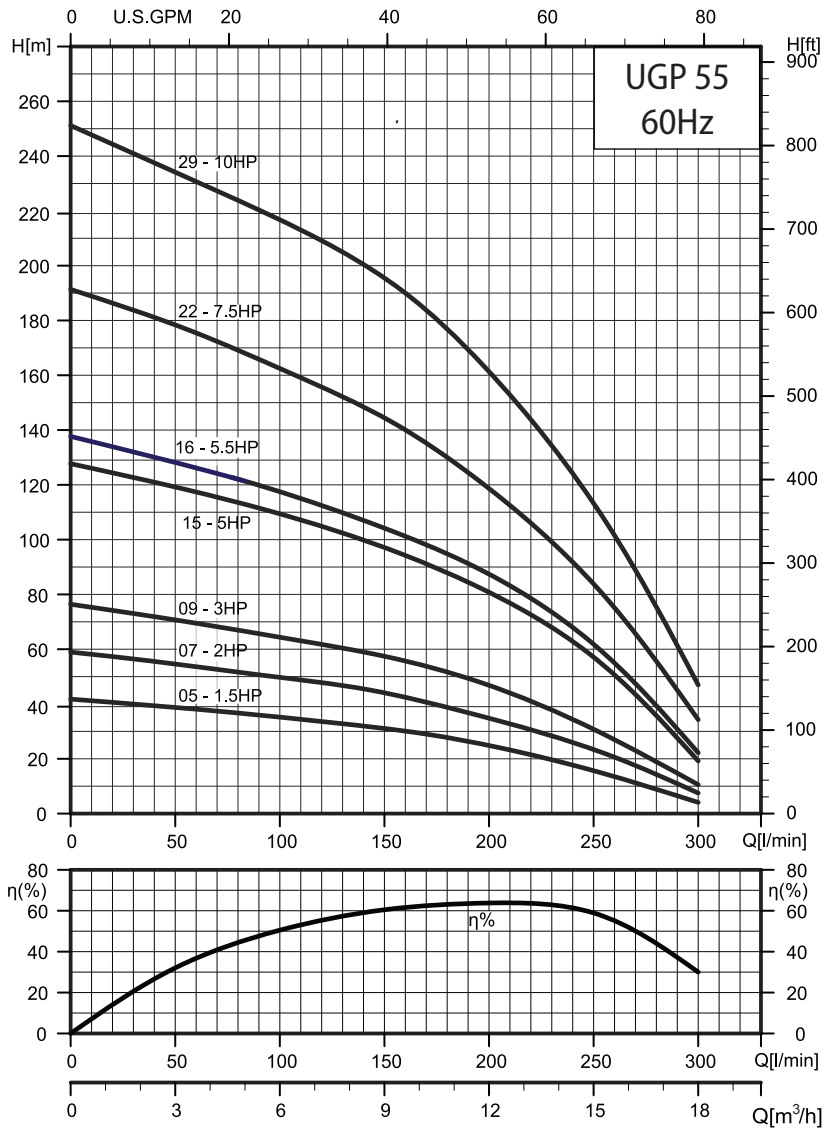
# Performance Curve



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY													Pump		Electro Pump	
		KW	HP	L/Min	60	70	80	90	100	120	140	160	180	200	250	Weight	1 Ø	3 Ø		
				m³/h	0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12				15	
H= TOTAL HEAD IN METERS																				
UGP-4005	5	1.1	1.5	46		42	41	40	39	37	35	33	29	25	14	3.1	13.1	12		
UGP-4006	6	1.5	2.0	55		49	48	47	47	45	42	38	35	30	17	3.4	14.9	13.4		
UGP-4008	8	2.2	3.0	74		69	68	67	66	63	60	56	50	43	24	4	18	15.6		
UGP-4011	11	3.0	4.0	100		91	88	87	86	83	78	73	66	58	30	4.9	24.3	20.1		
UGP-4014	14	3.7	5.0	129		118	116	115	113	108	103	97	90	81	48	5.7	28.4	N/A		
UGP-4015	15	4.0	5.5	139		128	126	125	123	118	113	105	97	88	55	6	28.8	25.5		
UGP-4021	21	5.5	7.5	194		178	175	173	169	162	154	145	134	120	68	7.8	N/A	30.9		

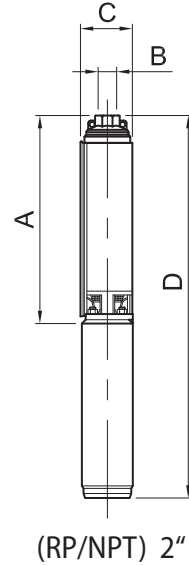
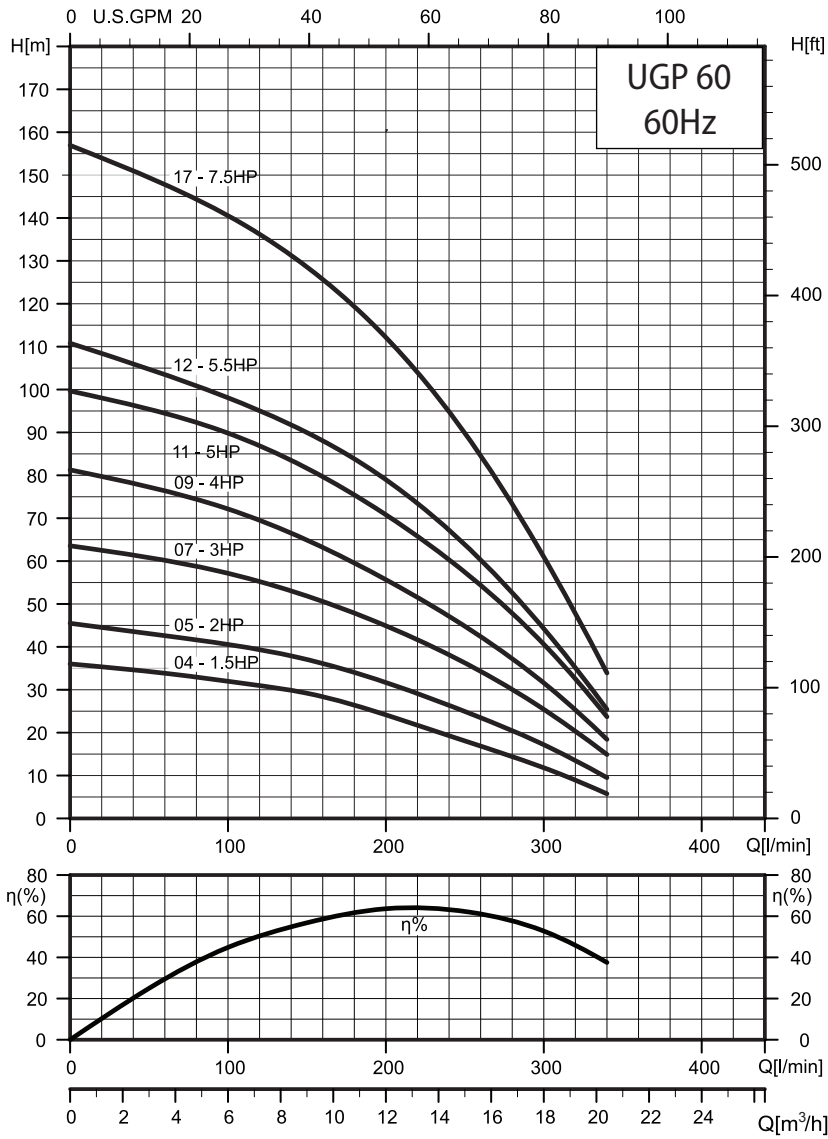
# Performance Curve



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY																Pump	Electro Pump	
		KW	HP	L/Min	70	80	90	100	120	140	160	180	200	220	240	260	280	300	Weight		1 Ø	3 Ø
				m <sup>3</sup> /h	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	14	16	17	18				
H= TOTAL HEAD IN METERS																						
UGP-5505	5	1.1	1.5	42		38	37	36	34	32	30	28	25	22	18	14	9	5	4.3	14.3	13.2	
UGP-5507	7	1.5	2.0	59		52	51	50	48	46	43	40	36	31	26	21	15	8	5.3	16.8	15.3	
UGP-5509	9	2.2	3.0	76		67	66	64	62	59	56	52	47	42	35	28	19	11	6.2	20.2	17.8	
UGP-5515	15	3.7	5.0	128		113	112	109	105	100	94	88	80	72	63	51	37	20	9	31.7	24.2	
UGP-5516	16	4.0	5.5	137		122	120	117	112	107	101	95	88	79	68	55	40	23	9.5	32.3	29	
UGP-5522	22	5.5	7.5	191		169	166	162	156	149	140	131	118	106	91	75	55	35	12.3	N/A	35.4	
UGP-5529	29	7.5	10	251		225	221	218	209	200	190	177	161	144	125	101	75	48	15.6	N/A	43.1	

# Performance Curve

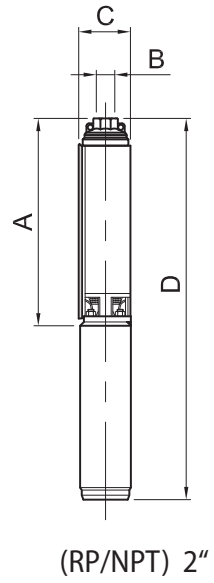
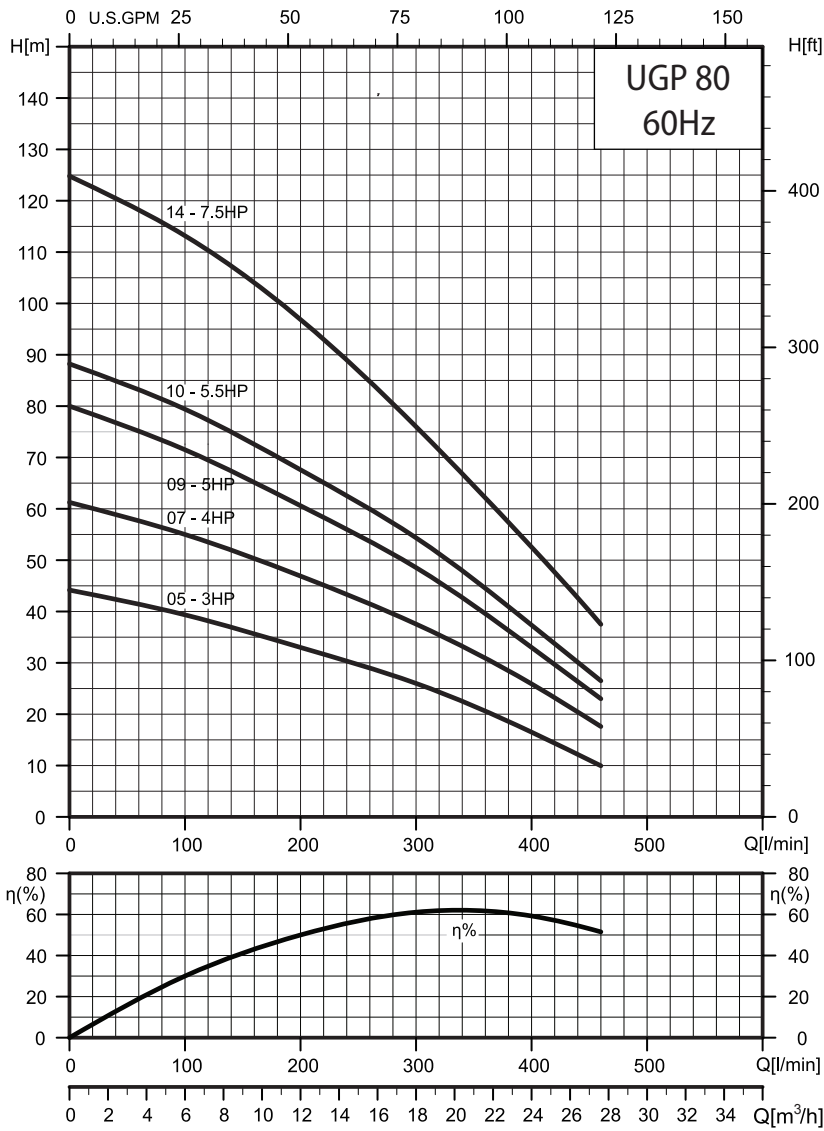


# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY																	Pump		Electro Pump	
				L/Min	0	90	100	120	140	160	180	200	220	240	260	280	300	340	380	Weight	1 Ø	3 Ø		
		KW	HP	m <sup>3</sup> /h	5.4	6.0	7.2	8.4	9.6	10.8	12.0	13.0	14.4	16.0	17.0	18.0	20.0	22.8						
				H= TOTAL HEAD IN METERS																				
UGP-6004	4	1.1	1.5	36		32	31	30	28	26	24	22	19	17	14	12	6		3.9	13.9	12.8			
UGP-6005	5	1.5	2.0	46		41	39	37	36	34	32	29	26	23	20	17	9		4.4	15.9	14.4			
UGP-6007	7	2.2	3.0	64		57	55	53	51	48	45	42	38	34	30	25	15		5.3	19.3	16.9			
UGP-6009	9	3.0	4.0	82		72	69	67	64	60	56	52	47	42	37	32	18		6.3	25.7	21.5			
UGP-6011	11	3.7	5.0	100		90	87	83	80	75	71	67	60	54	48	41	24		7.2	29.9	N/A			
UGP-6012	12	4.0	5.5	110		98	95	92	88	84	78	73	67	60	55	44	26		7.7	30.5	27.2			
UGP-6017	17	5.5	7.5	157		140	136	131	126	119	112	104	95	85	73	61	35		10.1	N/A	33.2			



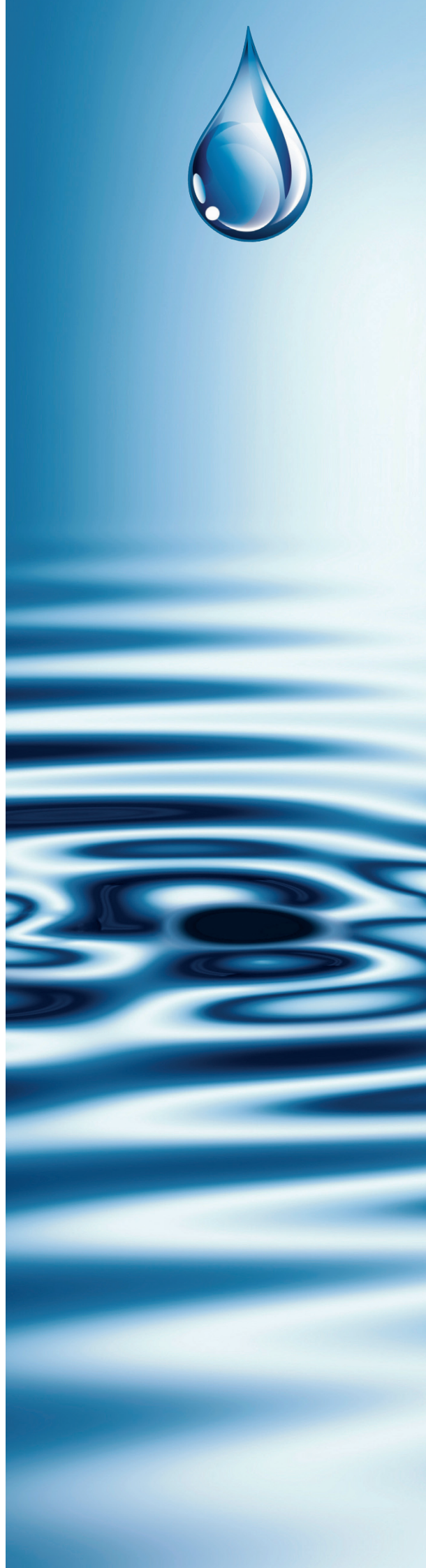
# Performance Curve



# Selection Chart

Pump Type	Stages	Motor		Q= DELIVERY																Pump		Electro Pump	
		KW	HP	L/Min	140	160	180	200	220	240	260	280	300	340	380	420	460	500	Weight				
				m³/h	8.4	9.6	10.8	12.0	13.2	14.4	15.6	16.8	18.0	20.4	22.8	25.2	27.6	30.0	1 Ø	3 Ø			
H= TOTAL HEAD IN METERS																							
UGP-8005	5	2.2	3.0	44		36	34	33	32	30	29	28	26	23	19	14	10		4.4	18.4	16		
UGP-8007	7	3.0	4.0	61		50	49	47	45	43	41	40	38	33	28	23	18		5.6	25	20.8		
UGP-8009	9	3.7	5.0	80		65	63	61	58	56	54	51	49	43	36	30	23		6.9	29.6	N/A		
UGP-8010	10	4.0	5.5	88		73	70	68	65	63	60	57	54	48	41	34	27		7.5	30.3	27		
UGP-8014	14	5.5	7.5	126		104	101	97	93	89	85	80	76	67	62	48	38		9.9	N/A	33		







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