SIMFLO®

4" E/S SERIES

PERFORMANCE AND DATA

ES “N” AND ES “S” Stainless Steel Submersibles



CONTACT US FOR THE TOOLS AND SERVICES YOU NEED TO MAKE THE MOST OF YOUR WATER

SIMFLO®

Drinking water NSF/ANSI 31
NSF/ANSI 372

ISO 9001:2015

AWWA MEMBER

HYDRAULIC INSTITUTE PROUD MEMBER

NGWA The Groundwater Association MEMBER 2023

Water Environment Federation the water quality people®

LUBBOCK | 2605 INTERSTATE 27 | LUBBOCK, TX | 79404 | 806.747.3411

WILLCOX | 754 E MALEY ST | WILLCOX, AZ | 85643 | 520.384.2273

SOUTHAVEN | 8500 AARON LANE | SOUTHAVEN, MS | 38671 | 662.793.8090

SIMFLO

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SIMFLO®

4" ES SERIES DATA BOOKLET

SIMFLO 4" MOTORS

ES "N" SERIES

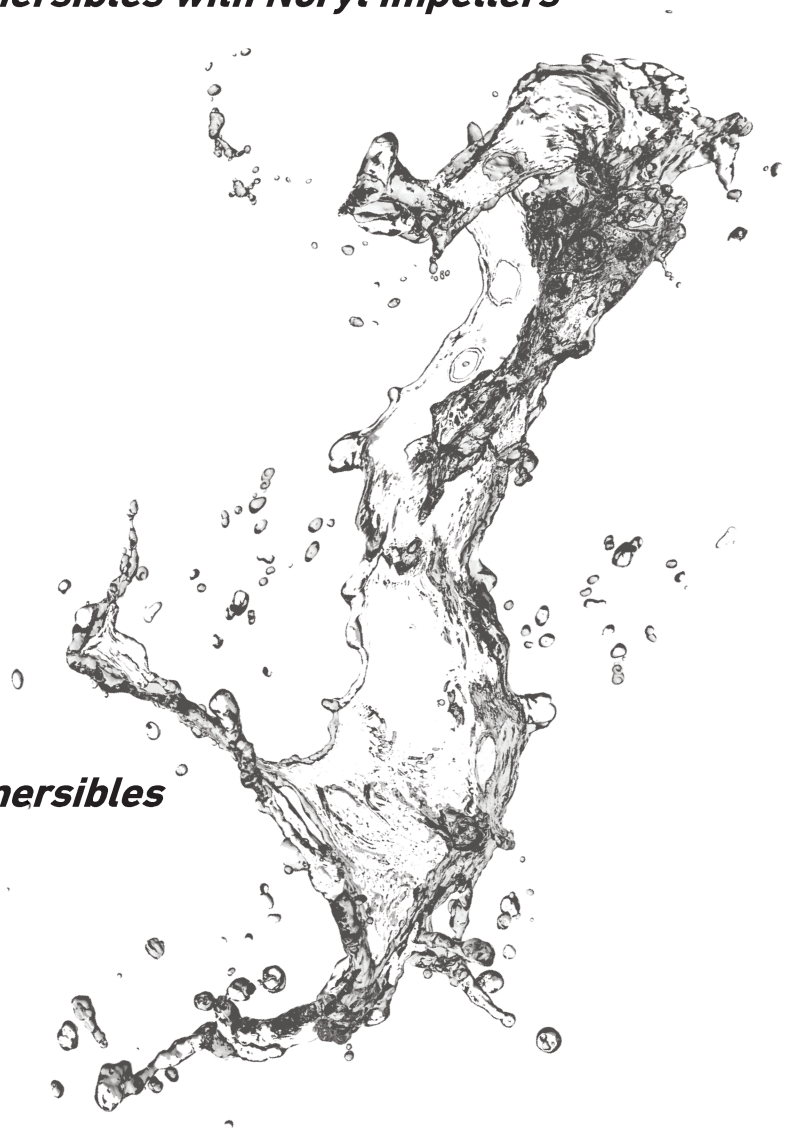
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SIMFLO 4” MOTORS

SIMFLO 4" Motors

SIMFLO 4" Single-phased Motors												
Order Number	Type	HP	Volts	Length (IN.)	Weight (LBS.)	Thrust Load (LBS.)	AMP In	AMP Istart	Imax	EFF (%)	Cstart (uF)	S.F.
MTS.50CO.216A.SS2	2-Wire	0.5	230	10.2	16.1	337	5.5	22	6.4	57	59-71	1.60
MTS.50CO.216C.SS3	3-Wire	0.5	230	10.2"	16.1	337	5.5	22	6.4	57	59-71	1.60
MTS.75CO.216C.SS3		0.75		10.4	16.8		7	32	9.3	62	86-103	1.50
MTS.10DO.216C.SS3		1		12	20.1		8.5	40	12	58	105-126	1.40
MTS.15DO.216C.SS3		1.5		13.4	24.7	674	10.1	49	13	65	116-125	1.30
MTS.20DO.216C.SS3		2		14.8	30.9		11.6	52	15	67	116-125	1.25
MTS.30DO.216C.SS3		3		16.9	36.2		14.8	68	16.9	67	290-310	1.15
MTS.50DO.216C.SS3		5		26.6	64.6	1461	25.5	88	27.8	69	290-310	1.15

SIMFLO 4" Three-phased Motors												
Order Number	Type	HP	Volts	Length (IN.)	Weight (LBS.)	Thrust Load (LBS.)	AMP In	AMP Istart	Imax	EFF (%)	Starting Torque (LBF.)	S.F.
MTS.10DO.236C.SS3	3-Wire	1	230	10.4	18.3	337	4.5	22.5	6.2	66	1.46	1.40
MTS.15DO.236C.SS3		1.5		11.6	24	674	5.7	31.2	7.3	71	2.09	1.30
MTS.20DO.236C.SS3		2		13.4	25.1		7.3	43.3	9	68	2.93	1.25
MTS.30DO.236C.SS3		3		14.8	31.3		10.9	60.6	12.5	70	3.98	1.15
MTS.55DO.236C.SS3		5.5		21.9	51.6	1461	17.7	95.3	20.8	78	7.49	1.15
MTS.75DO.236C.SS3		7.5		26.6	64.8		25.1	142	30	73	10.93	1.15
MTS.0100.236C.SS3		10		30.1	74.5		38.1	176.7	43.3	74	13.63	1.15
MTS.50CO.236D.SS3	3-Wire	0.5	460	9.3	12.8	337	1.2	6.8	1.6	60	0.58	1.6
MTS.75CO.236D.SS3		0.75		9.8	15.4		1.6	10.5	1.95	65	1.08	1.5
MTS.10DO.236D.SS3		1		10.4	18.3		2	12.5	2.5	67	1.46	1.4
MTS.15DO.236D.SS3		1.5		11.6	24	674	2.8	15	3.3	69	2.1	1.3
MTS.20DO.236D.SS3		2		13.4	25.1		3.5	22	4.2	71	2.93	1.25
MTS.30DO.236D.SS3		3		14.8	31.3		4.9	30.5	5.5	75	3.98	1.15
MTS.55DO.236D.SS3		5.5		21.9	51.6	1461	9	62	9.9	77	7.49	1.15
MTS.75DO.236D.SS3		7.5		26.6	64.8		12	77	13.3	77	10.93	1.15
MTS.0100.236D.SS3		10		30.1	74.5		16.2	95	18.5	77	13.63	1.15

Agency Listings:

NEMA Motor:

Encapsulated resin filled stator
Kingsbury thrust bearing
Winding: enameled copper - Class F insulation
IP68/Class B insulation
Labyrinth seal, sand slinger and lip seal
304SS motor case and shaft

ESN MODEL

SIMFLO

GENERAL DATA

ESN Model - General Data

Model	HP	Stages	Order Number	Length (IN)	Discharge	Weight (LBS)
5ESN	1/2	12	ESN.04O14.005.12.50C	14.1	1-1/4" NPT	7.9
	3/4	15	ESN.04O14.005.15.75C	16.2	1-1/4" NPT	9.0
	1	20	ESN.04O14.005.20.10D	19.6	1-1/4" NPT	10.8
	1 1/2	26	ESN.04O14.005.26.15D	25.3	1-1/4" NPT	12.8
	2	33	ESN.04O14.005.33.20D	32.3	1-1/4" NPT	18.3
7ESN	1/2	10	ESN.04O14.007.10.50C	13	1-1/4" NPT	7.3
	3/4	13	ESN.04O14.007.13.75C	15.2	1-1/4" NPT	8.4
	1	17	ESN.04O14.007.17.10D	17.9	1-1/4" NPT	9.9
	1 1/2	22	ESN.04O14.007.22.15D	21.5	1-1/4" NPT	11.9
	2	27	ESN.04O14.007.27.20D	26.6	1-1/4" NPT	14.6
	3	34	△	33.8	1-1/4" NPT	20.5
10ESN	1/2	7	ESN.04O14.010.07.50C	10.7	1-1/4" NPT	6.2
	3/4	10	ESN.04O14.010.10.75C	12.8	1-1/4" NPT	7.3
	1	12	ESN.04O14.010.12.10D	14.1	1-1/4" NPT	7.9
	1 1/2	17	ESN.04O14.010.17.15D	17.6	1-1/4" NPT	9.7
	2	20	ESN.04O14.010.20.20D	19.6	1-1/4" NPT	10.8
	3	27	ESN.04O14.010.27.30D	26	1-1/4" NPT	13.2
	5	42	ESN.04O14.010.42.50D	38.6	1-1/4" NPT	21.6
13ESN	1/2	5	ESN.04O14.013.05.50C	9.3	1-1/4" NPT	5.5
	3/4	7	△	10.7	1-1/4" NPT	6.2
	1	10	ESN.04O14.013.10.10D	12.8	1-1/4" NPT	7.1
	1 1/2	12	ESN.04O14.013.12.15D	14.1	1-1/4" NPT	7.7
	2	17	ESN.04O14.013.17.20D	17.6	1-1/4" NPT	9.5
	3	21	ESN.04O14.013.21.30D	20.4	1-1/4" NPT	11
	5	35	ESN.04O14.013.35.50D	33.7	1-1/4" NPT	19
18ESN	1/2	5	ESN.04O14.018.05.50C	10.1	1-1/4" NPT	6
	3/4	6	ESN.04O14.018.06.75C	11	1-1/4" NPT	6.2
	1	8	ESN.04O14.018.08.10D	12.7	1-1/4" NPT	6.8
	1 1/2	11	ESN.04O14.018.11.15D	15.2	1-1/4" NPT	7.9
	2	14	ESN.04O14.018.14.20D	17.8	1-1/4" NPT	9
	3	19	ESN.04O14.018.19.30D	22	1-1/4" NPT	10.8
	5	30	ESN.04O14.018.30.50D	34.8	1-1/4" NPT	17.9

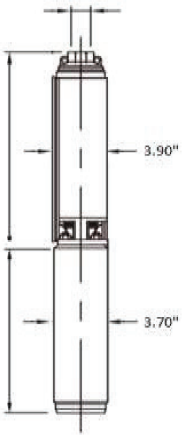
*Contact Factory for product avaliblity outside of listings

Model	HP	Stages	Order Number	Length (IN)	Discharge	Weight (LBS)
25ESN	1/2	4	ESN.04O18.025.04.50C	9.7	1-1/2" NPT	5.3
	3/4	5	ESN.04O18.025.05.75C	10.7	1-1/2" NPT	5.7
	1	7	△	12.6	1-1/2" NPT	6.8
	1 1/2	9	ESN.04O18.025.09.15D	14.6	1-1/2" NPT	7.7
	2	11	ESN.04O18.025.11.20D	16.5	1-1/2" NPT	8.6
	3	15	ESN.04O18.025.15.30D	20.4	1-1/2" NPT	10.4
	5	26	ESN.04O18.025.26.50D	34	1-1/2" NPT	17.9
35ESN	1	6	△	14.1	2" NPT	7.5
	1 1/2	8	ESN.04O20.035.08.15D	16.6	2" NPT	8.8
	2	10	ESN.04O20.035.10.20D	19	2" NPT	10.1
	3	14	ESN.04O20.035.14.30D	23.9	2" NPT	12.6
	5	22	ESN.04O20.035.22.50D	35.2	2" NPT	17.9
	7 1/2	34	ESN.04O20.035.34.75D	52.2	2" NPT	27.8
	10	43	ESN.04O20.035.43.010	66	2" NPT	33.5
55ESN	1 1/2	5	△	17	2" NPT	9.5
	2	7	ESN.04O20.055.07.20D	21.1	2" NPT	11.7
	3	9	ESN.04O20.055.09.30D	25.2	2" NPT	13.7
	5	15	ESN.04O20.055.15.50D	37.5	2" NPT	19.8
	7 1/2	22	ESN.04O20.055.22.75D	55.5	2" NPT	29.3
	10	29	ESN.04O20.055.29.010	69.9	2" NPT	36.6
80ESN	3	5	△	18.6	2" NPT	9.7
	5	9	ESN.04O20.080.09.50D	29.3	2" NPT	15.2
	7 1/2	14	ESN.04O20.080.14.75D	42.6	2" NPT	21.8

Rotation is Counterclockwise when observed from pump discharge end

Agency Listing

Drinking Water NSF/ANSI 61
NSF/ANSI 372



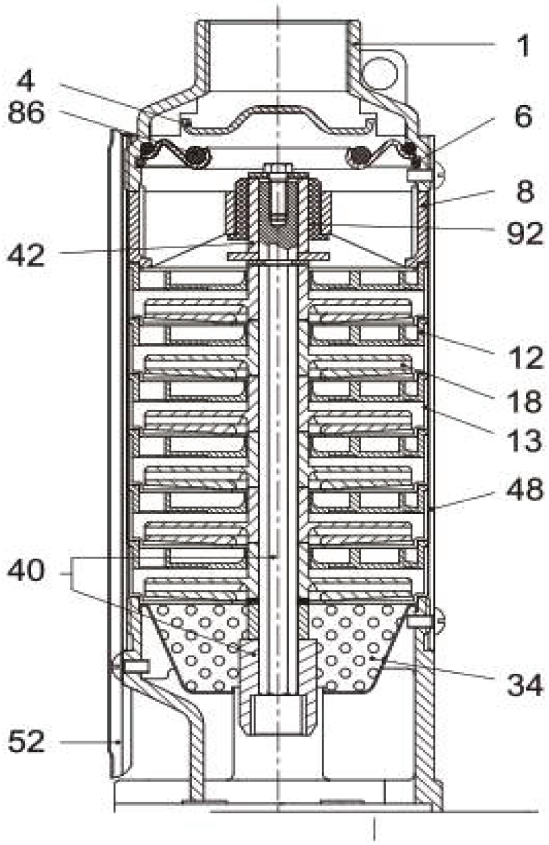
Features:

Stainless steel construction desgined and built for years of trouble free operation.
Floating type impellers made with Noryl® for superior sand handling.
304 Stainless steel hex bar pumpshaft for high corrosion resistance.
Pump body covered by a 4"1.5mm/6"2.0mm thick 304SS polished casing, ensuring optimum resistance to abrasion.
Heavy duty stainless steel discharge with built-in check valve to help prevent back flow and allevite water hammer.
Polyacetal bearings for stong wear and abrasive resistance.
Sand Content: Max. 150g/m3
Polyacetal bearings for stong wear and abrasive resistance.
NEMA standard motor adaptor.

ESN MODEL

SIMFLO

CROSS SECTIONAL

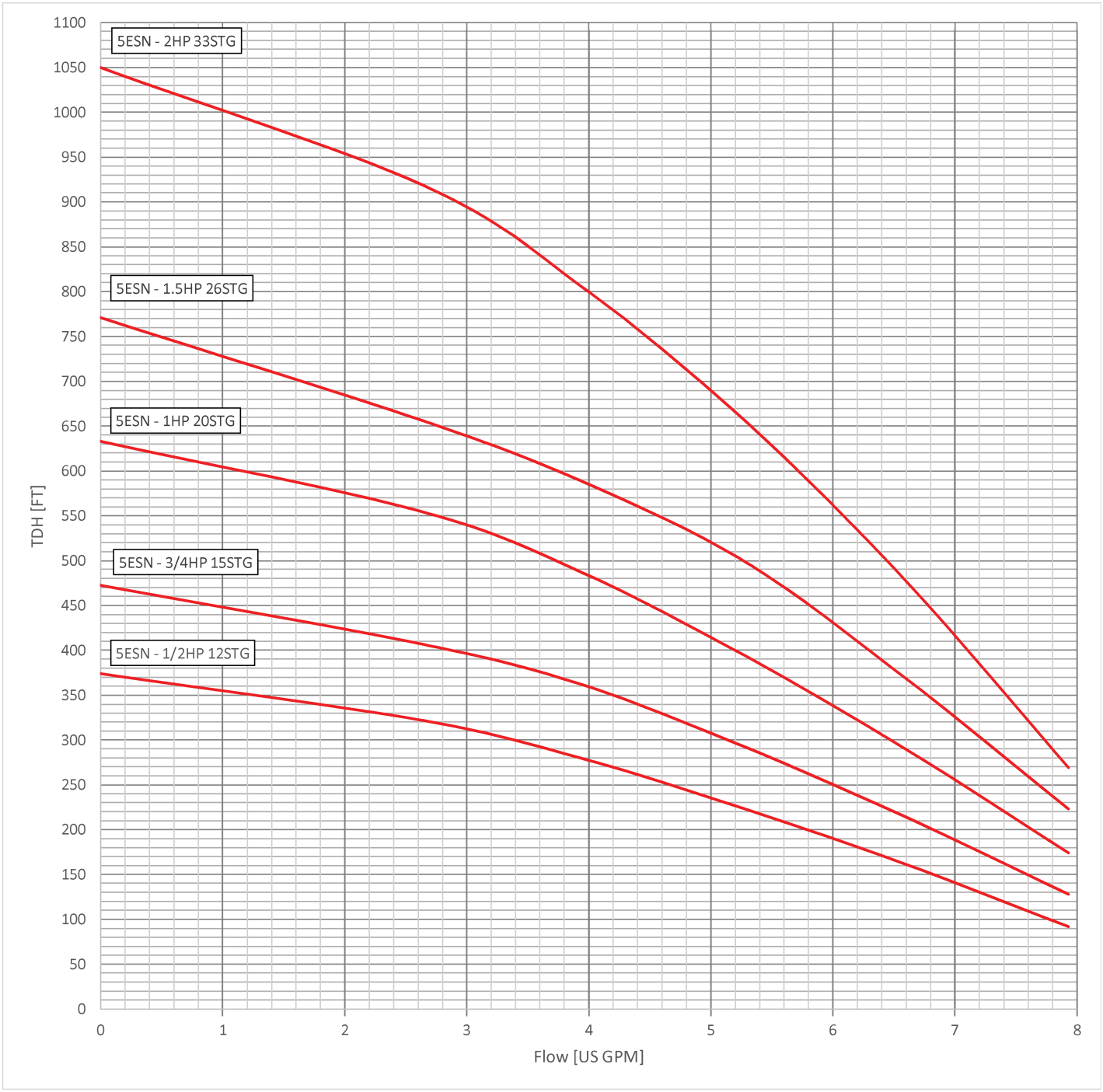


Pos.	Part Name	Materials
1	Discharge	AISI 304 SS
4	Check Valve Cone	AISI 304 SS
6	Check Valve Retaining Ring	AISI 304 SS
8	Bearing Spider	Glass Filled Polycarbonate
12	Diffuser	Glass Filled Polycarbonate
13	Bowl	AISI 304 SS
18	Impeller	Noryl
34	Strainer	AISI 304 SS
40	Pump Shaft / Coupling	AISI 304 SS
42	Shaft Sleeve	AISI 304 SS or Noryl
48	Pump Shell	AISI 304 SS
52	Cable Guard	AISI 304 SS
86	O-Ring	NBR
92	Bearing	Polyacetal

MODEL 5ESN

SIMFLO®

PERFORMANCE CURVES



MODEL 5ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			0	20	40	60	80	100	120	140	160	180	200	220	240	260	300	340
5ESN -12STG	1/2	0								7	6.7	6.3	5.8	5.4	4.9	4.4	3.3	1.9
		20						6.9	6.5	6.1	5.7	5.3	4.8	4.3	3.7	3.1	1.6	
		30				7.2	6.9	6.5	6.1	5.6	5.2	4.7	4.2	3.6	3	2.3		
		40			7.2	6.8	6.4	6	5.6	5.1	4.6	4.1	3.5	2.9	2.2			
		50		7.1	6.7	6.4	5.9	5.5	5	4.5	4	3.4	2.8	2.1				
		60	7.1	6.7	6.3	5.9	5.4	5	4.5	3.9	3.3	2.7	1.9					
Shut-off PSI			162	153	145	136	127	119	110	101	93	84	75	67	58	49	32	15

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			20	40	60	80	100	120	140	160	180	200	220	240	280	320	380	420
5ESN - 15STG	3/4	0								7.2	6.9	6.5	6.2	5.9	5.2	4.3	3.4	2.3
		20						7.1	6.8	6.4	6.1	5.8	5.4	5	4.2	3.2	2.1	
		30					7	6.7	6.4	6.1	5.7	5.4	5	4.6	3.7	2.6		
		40				7	6.7	6.3	6	5.7	5.3	4.9	4.5	4.1	3.1	1.9		
		50			6.9	6.6	6.3	6	5.6	5.2	4.8	4.4	4	3.5	2.4			
		60	7.2	6.9	6.6	6.2	5.9	5.5	5.2	4.8	4.4	3.9	3.4	2.9	1.6			
Shut-off PSI			196	187	179	170	161	153	144	135	127	118	109	101	83	66	40	23

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			100	120	140	160	180	200	220	260	300	340	380	420	460	500	540	580
5ESN - 20STG	1	0								7	6.5	6	5.5	5	4.3	3.7	2.9	2
		20						7.1	6.9	6.4	6	5.4	4.9	4.2	3.6	2.8	1.6	
		30					7.1	6.9	6.6	6.2	5.7	5.1	4.5	3.9	3.1	2.2		
		40				7.1	6.8	6.6	6.4	5.9	5.3	4.8	4.1	3.4	2.6	1.6		
		50			7	6.8	6.6	6.3	6.1	5.6	5	4.4	3.7	3	2.1			
		60	7.2	7	6.8	6.5	6.3	6.1	5.8	5.3	4.7	4	3.3	2.5				
Shut-off PSI			231	222	214	205	196	188	179	162	144	127	110	92	75	58	40	23

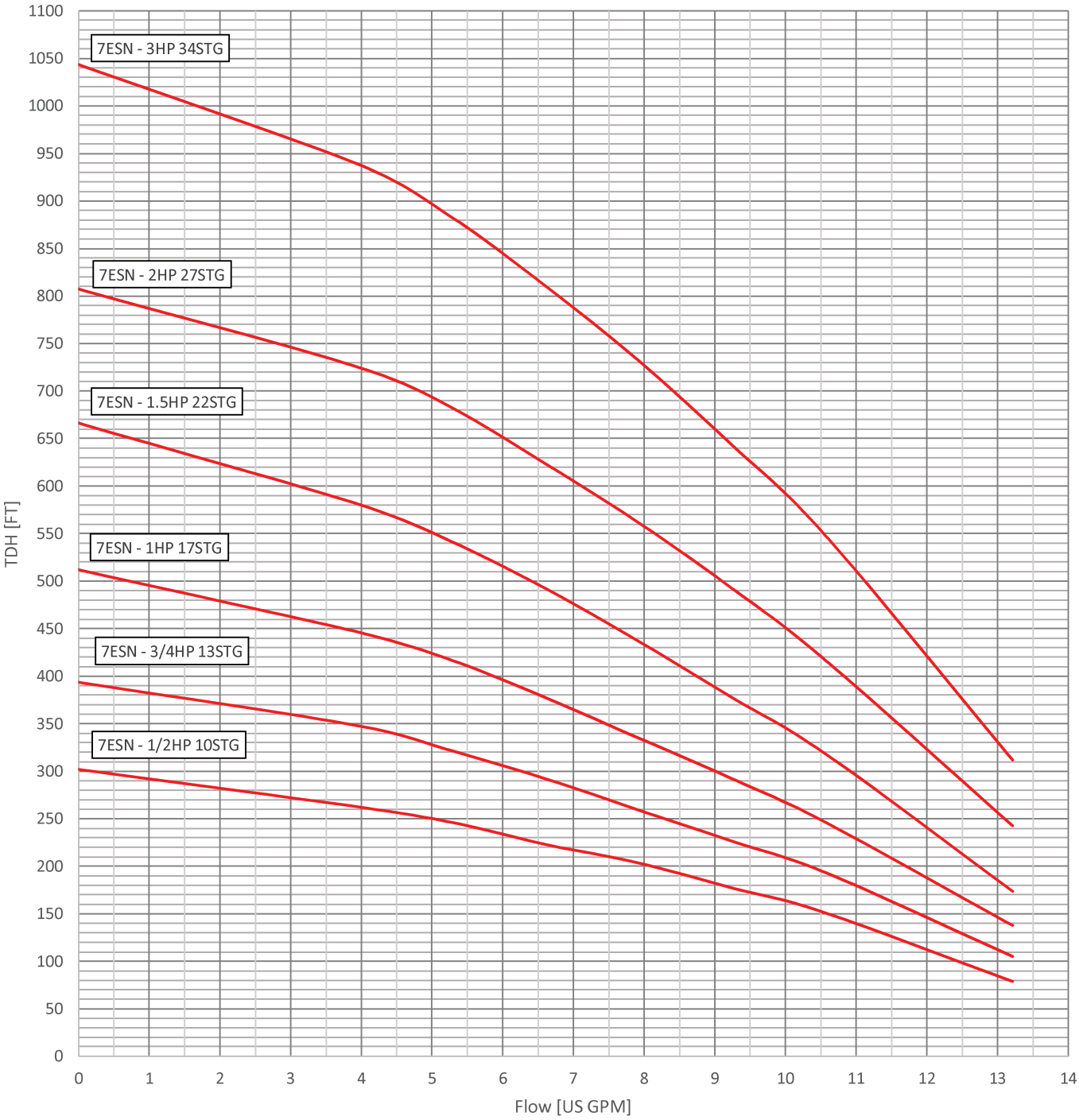
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			180	200	220	240	260	280	320	360	400	440	480	520	560	600	640	680
5ESN - 26STG	1 1/2	0							7.1	6.7	6.3	5.8	5.4	4.9	4.4	3.8	3	2.1
		20						7	6.6	6.2	5.8	5.3	4.8	4.3	3.7	2.9	1.9	
		30					7	6.8	6.4	6	5.5	5	4.5	3.9	3.2	2.3		
		40				7	6.8	6.6	6.1	5.7	5.2	4.7	4.2	3.6	2.7	1.8		
		50		7.1	6.9	6.7	6.5	6.3	5.9	5.4	4.9	4.4	3.8	3	2.2			
		60	7.1	6.9	6.7	6.5	6.3	6.1	5.6	5.1	4.6	4.1	3.5	2.4				
Shut-off PSI			256	247	239	230	221	213	195	178	161	143	126	109	91	74	57	39

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			280	320	360	400	440	480	520	560	600	640	680	720	780	840	900	960
5ESN - 33STG	2	0				7.1	6.9	6.6	6.3	6	5.7	5.4	5.1	4.7	4.2	3.6	2.9	1.8
		20			7.1	6.8	6.6	6.3	6	5.7	5.4	5	4.7	4.3	3.7	3	2.1	
		30		7.2	6.9	6.7	6.4	6.1	5.8	5.5	5.2	4.8	4.5	4.1	3.5	2.7	1.7	
		40		7	6.8	6.5	6.2	5.9	5.6	5.3	5	4.6	4.3	3.9	3.2	2.4	1.1	
		50	7.2	6.9	6.6	6.3	6.1	5.8	5.5	5.1	4.8	4.4	4	3.6	2.9	1.9		
		60	7	6.7	6.5	6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.8	3.4	2.6	1.4		
Shut-off PSI			333	316	299	281	264	247	229	212	195	177	160	143	117	91	65	39

MODEL 7ESN

SIMFLO®

PERFORMANCE CURVES



MODEL 7ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			0	20	40	60	80	100	120	140	160	180	200	220	240	260	270	280
7ESN - 10STG	1/2	0							11.7	10.9	10	9.1	8.1	6.9	5.7	4.3	3.5	2.6
		20					11.5	10.6	9.7	8.8	7.7	6.6	5.3	3.8	1.9			
		30				11.3	10.5	9.6	8.6	7.6	6.4	5.1	3.5					
		40			11.2	10.3	9.4	8.4	7.4	6.2	4.9	3.3						
		50		11.1	10.2	9.3	8.3	7.2	6	4.6	3							
		60	10.9	10.1	9.1	8.1	7	5.8	4.4	2.7								
Shut-off PSI			131	122	113	105	96	87	79	70	61	53	44	35	27	18	14	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	360
7ESN - 13STG	3/4	0								10.9	10.3	9.5	8.8	8	7.2	6.3	5.3	3
		20						10.7	10	9.3	8.6	7.8	6.9	6	5	3.8	2.5	
		30				11.3	10.6	9.9	9.2	8.5	7.6	6.8	5.8	4.8	3.7	2.3		
		40			11.2	10.5	9.8	9.1	8.3	7.5	6.6	5.7	4.6	3.5	2.1			
		50		11.1	10.4	9.7	9	8.2	7.4	6.5	5.5	4.5	3.3	1.8				
		60	11	10.3	9.6	8.9	8.1	7.3	6.4	5.4	4.3	3.1						
Shut-off PSI			153	144	136	127	118	110	101	93	84	75	67	58	49	41	32	15

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460
7ESN - 17STG	1	0								11.2	10.7	10.2	9.6	9.1	7.9	6.5	5	3.2
		20						11.1	10.6	10	9.5	8.9	8.3	7.7	6.3	4.8	2.9	
		30					11	10.5	9.9	9.4	8.8	8.2	7.6	6.9	5.4	3.7		
		40				10.9	10.4	9.9	9.3	8.7	8.1	7.5	6.8	6.1	4.5	2.4		
		50			10.8	10.3	9.8	9.2	8.6	8	7.4	6.7	6	5.2	3.5			
		60	11.3	10.8	10.2	9.7	9.1	8.5	7.9	7.3	6.6	5.8	5.1	4.2	2.6			
Shut-off PSI			187	178	170	161	152	144	135	126	118	109	100	92	74	57	40	22

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			140	160	180	200	220	240	260	280	320	360	400	440	480	520	560	600
7ESN - 22STG	1 1/2	0								11.3	10.5	9.7	8.8	7.9	6.9	5.8	4.6	3.2
		20						11.2	10.8	10.4	9.6	8.7	7.8	6.7	5.6	4.4	3	
		30					11.1	10.7	10.3	9.9	9.1	8.2	7.2	6.1	4.9	3.6		
		40				11.1	10.7	10.3	9.9	9.4	8.6	7.6	6.6	5.5	4.2	2.5		
		50			11	10.6	10.2	9.8	9.4	8.9	8	7	5.9	4.7	3.4			
		60	11.3	10.9	10.5	10.1	9.7	9.3	8.9	8.4	7.5	6.4	5.3	4	2.2			
Shut-off PSI			228	219	210	202	193	184	176	167	150	132	115	98	81	63	46	29

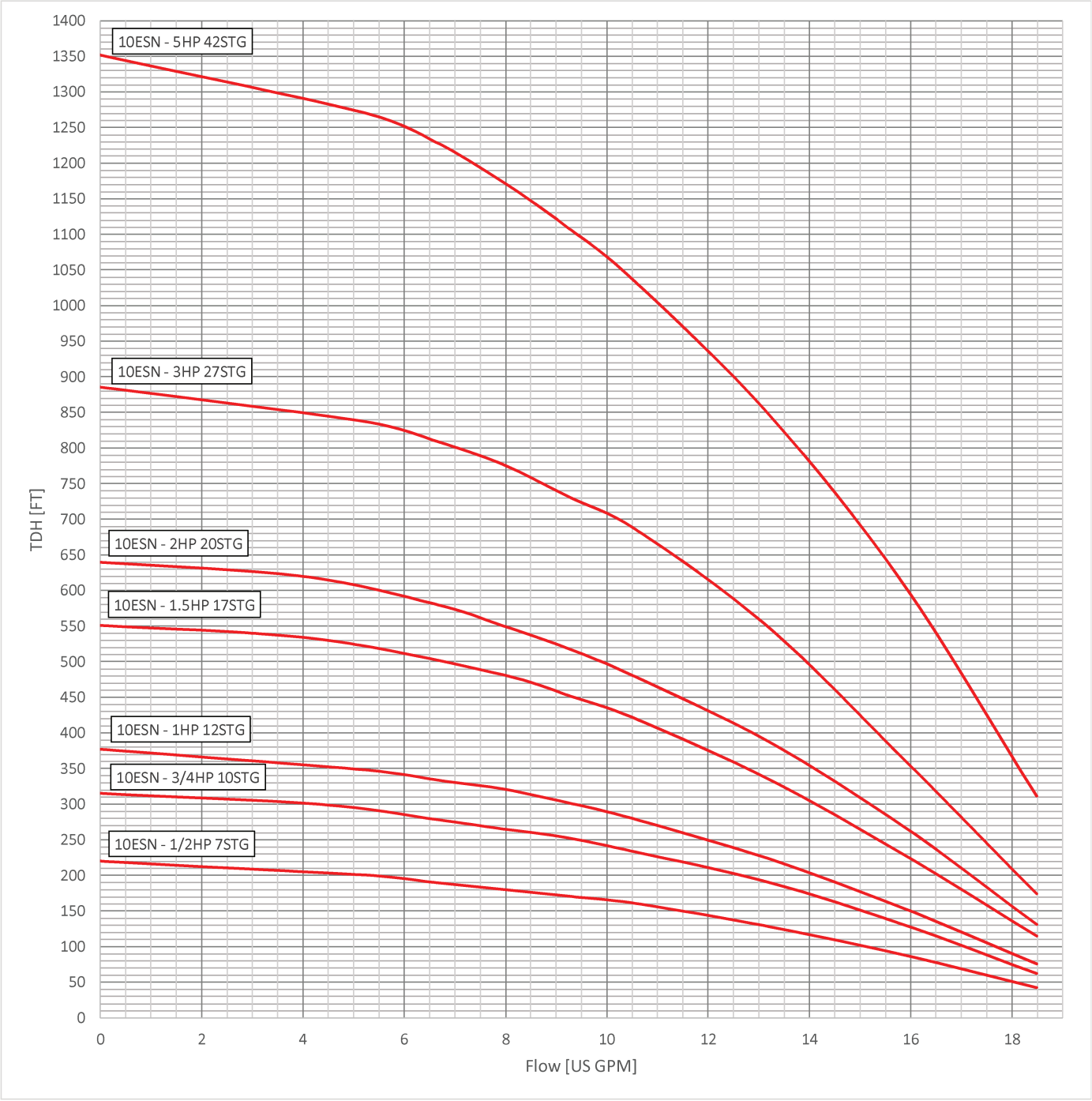
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			240	260	280	300	320	360	400	440	480	520	560	600	640	680	720	760
7ESN - 2HP	2	0						11.5	10.9	10.2	9.5	8.8	8	7.2	6.2	5.2	4	2.2
		20					11.4	10.8	10.1	9.4	8.7	7.9	7	6.1	5	3.8	2	
		30				11.3	11	10.4	9.7	9	8.2	7.4	6.5	5.5	4.4	3		
		40			11.3	11	10.7	10	9.3	8.5	7.7	6.9	5.9	4.9	3.6	1.6		
		50		11.2	10.9	10.6	10.3	9.6	8.9	8.1	7.3	6.3	5.3	4.2	2.4			
		60	11.2	10.9	10.6	10.2	9.9	9.2	8.4	7.6	6.7	5.8	4.7	3.4				
Shut-off PSI			245	237	228	220	211	194	176	159	142	124	107	90	72	55	38	20

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			360	400	440	480	520	560	600	640	680	720	760	800	840	880	920	980
7ESN - 34 STG	3	0				11.4	10.9	10.4	9.9	9.3	8.7	8.1	7.5	6.8	6.1	5.3	4.4	2.4
		20			11.3	10.8	10.3	9.8	9.2	8.7	8	7.4	6.7	6	5.2	4.2	2.8	
		30		11.5	11	10.5	10	9.5	8.9	8.3	7.7	7	6.3	5.5	4.6	3.6	2	
		40		11.2	10.7	10.2	9.7	9.1	8.6	7.9	7.3	6.6	5.9	5	4.1	2.6		
		50	11.4	10.9	10.4	9.9	9.4	8.8	8.2	7.6	6.9	6.2	5.4	4.5	3.2	1.8		
		60	11.1	10.6	10.1	9.6	9.1	8.5	7.9	7.2	6.5	5.7	4.9	3.9	2.4			
Shut-off PSI			296	278	261	244	227	209	192	175	157	140	123	105	88	71	53	27

MODEL 10ESN

SIMFLO

PERFORMANCE CURVES



MODEL 10ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			0	10	20	30	40	50	60	70	80	90	100	120	140	160	200
10ESN -7STG	1/2	0								17	16.4	15.7	15.1	13.7	12.1	10.3	5.3
		20				16.6	16	15.3	14.7	13.9	13.2	12.4	11.6	9.7	7.4	4.2	
		30		16.4	15.8	15.1	14.4	13.7	12.9	12.1	11.3	10.4	9.4	7	3.4		
		40	15.6	14.9	14.2	13.5	12.7	11.9	11	10.1	9	7.9	6.5	2.6			
		50	14	13.2	12.5	11.6	10.7	9.7	8.7	7.5	6.1	4.3					
		60	12.2	11.3	10.4	9.4	8.3	7.1	5.6	3.6							
Shut-off PSI			95	91	86	82	78	74	69	65	61	56	52	43	35	26	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300
10ESN - 10STG	3/4	0						16.3	15.4	14.5	13.5	12.5	11.3	10.1	8.6	6.8	4.3
		20				16	15.1	14.4	13.4	12.4	11	9.8	7.8	5.9			
		30			15.9	15.2	14.3	13.3	12.1	10.8	9.7	7.7	4.6				
		40		15.7	14.9	14	12.8	11.9	10.5	9.3	7.1	4.8					
		50	15.6	14.8	14	13	11.6	10.4	9	6.5	4.6						
		60	14.5	13.6	12.7	11.3	10	8.7	6.4	4.2							
Shut-off PSI			128	119	110	102	93	84	76	67	58	50	41	32	24	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			20	40	60	80	100	120	140	160	180	200	220	240	260	300	340
10ESN - 12STG	1	0								15.6	14.8	14	13.4	12.4	11.6	9.4	6
		20						15.6	14.7	13.9	13	12.1	11.2	10.2	9	5.5	
		30				16	15.2	14.5	13.8	13	12	11	10	8.8	7		
		40			15.9	15.2	14.4	13.6	12.7	11.8	11	9.6	8.4	6.6	4		
		50		15.8	15	14.3	13.5	12.6	11.6	10.7	9.6	8.3	7.4	3.8			
		60	15.7	15	14.2	13.4	12.5	11.6	10.6	9.4	8.2	6.2	2.9				
Shut-off PSI			155	146	137	129	120	111	103	94	85	77	68	59	51	33	16

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			140	160	180	200	220	240	260	280	280	300	340	380	420	460	540
10ESN - 17STG	1 1/2	0								14.7	14.7	14.2	13.1	11.9	10.5	8.9	3.6
		20						14.6	14	13.5	13.5	12.9	11.7	10.3	8.6	6.5	
		30				15	14.5	13.9	13.4	12.8	12.8	12.2	10.9	9.3	7.4	4.7	
		40			14.9	14.4	13.9	13.3	12.7	12.1	12.1	11.5	10	8.3	6.1	2.1	
		50		14.8	14.3	13.8	13.2	12.6	12	11.3	11.3	10.6	9.1	7.1	4.1		
		60	14.8	14.2	13.7	13.1	12.5	11.9	11.2	10.5	10.5	9.8	8	5.6			
Shut-off PSI			178	169	161	152	143	135	126	117	117	109	91	74	57	39	5

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			140	160	180	200	220	240	260	280	300	320	340	400	460	500	560	620
10ESN - 20STG	2	0							16	15.6	15.2	14.8	14.3	12.8	11.2	9.9	7.6	4
		20					15.9	15.5	15.1	14.6	14.2	13.7	13.2	11.6	9.7	8.2	5.1	
		30				15.9	15.4	15	14.5	14.1	13.6	13.1	12.6	10.9	8.9	7.2	3	
		40			15.8	15.4	14.9	14.5	14	13.5	13	12.5	12	10.2	7.9	6		
		50	16.1	15.7	15.3	14.9	14.4	13.9	13.5	13	12.4	11.9	11.3	9.4	6.9	4.4		
		60	15.7	15.2	14.8	14.3	13.9	13.4	12.9	12.3	11.8	11.2	10.6	8.5	5.6			
Shut-off PSI			216	208	199	190	182	173	164	156	147	138	130	104	78	61	35	9

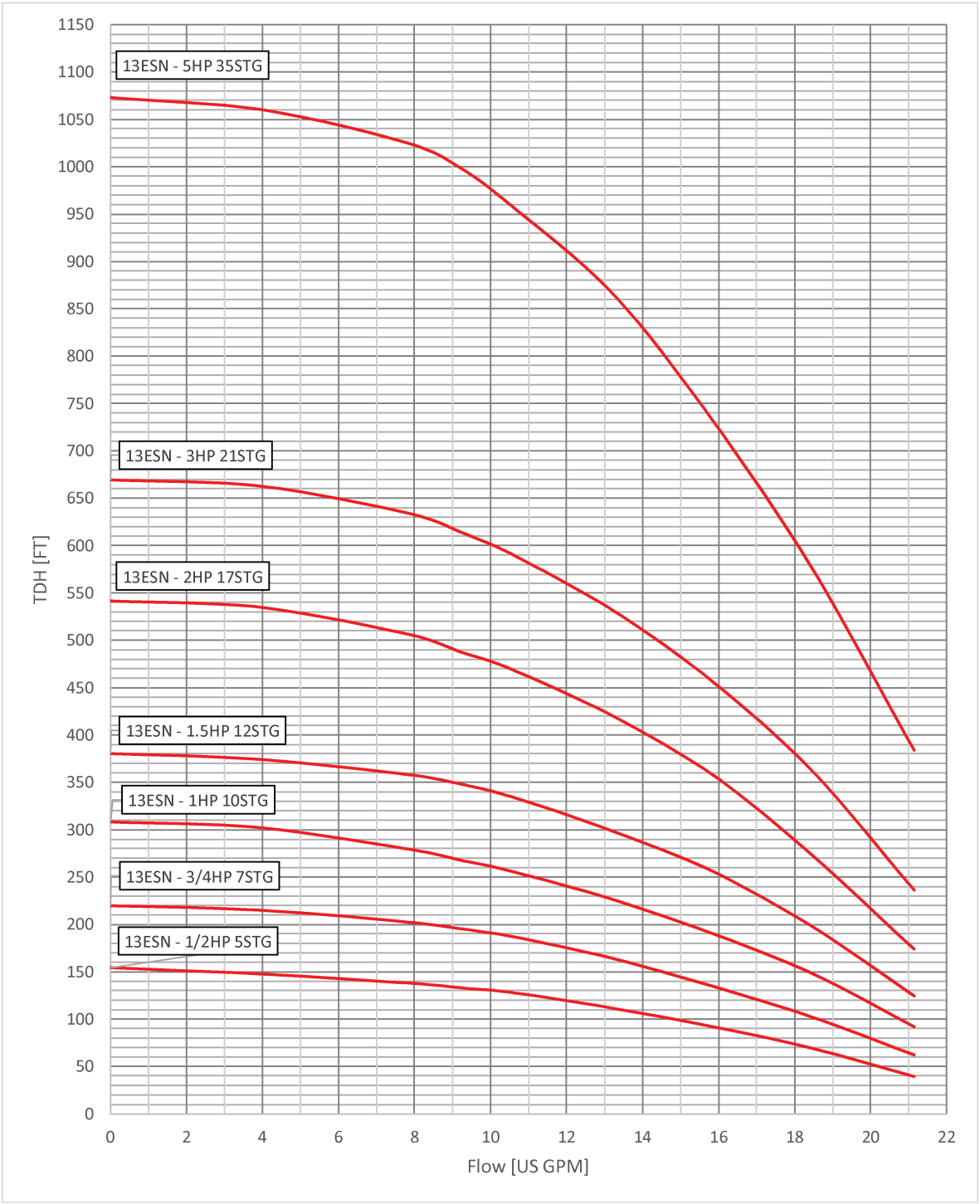
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																			
			220	260	300	340	380	420	460	500	540	560	580	600	620	660	700	720	760	800	840	860
10ESN - 27STG	3	0					15.8	15.2	14.6	13.9	13.2	12.9	12.5	12.1	11.7	10.9	10	9.5	8.4	7	4.8	3
		20				15.7	15.1	14.5	13.8	13.1	12.4	12	11.6	11.2	10.8	9.9	8.8	8.3	6.8	4.2		
		30			15.9	15.3	14.7	14.1	13.4	12.7	12	11.6	11.1	10.7	10.3	9.3	8.2	7.5	5.6			
		40		16.1	15.6	15	14.4	13.7	13	12.3	11.5	11.1	10.6	10.2	9.7	8.7	7.4	6.7	3.4			
		50		15.8	15.2	14.6	14	13.3	12.6	11.8	11	10.6	10.1	9.6	9.1	8	6.3	5.1				
		60	16.1	15.5	14.9	14.3	13.6	12.9	12.2	11.4	10.5	10	9.6	9	8.5	7	5.2					
Shut-off PSI			288	271	254	236	219	202	184	167	150	141	132	124	115	98	80	72	54	37	20	11

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																				
			460	500	540	580	620	660	700	740	780	820	860	900	940	980	1020	1060	1100	1140	1180	1220	1260	40
10ESN - 42STG	5	0					15.7	15.2	14.8	14.4	13.9	13.4	12.9	12.4	11.9	11.3	10.7	10.1	9.4	8.7	7.9	6.9	5.9	3.4
		20				15.6	15.2	14.8	14.3	13.8	13.4	12.9	12.3	11.8	11.2	10.6	10	9.3	8.6	7.7	6.8	5.4	3	
		30			15.8	15.4	14.9	14.5	14	13.6	13.1	12.6	12	11.5	10.9	10.3	9.6	8.9	8.1	7.2	6.2	3.8		
		40			15.5	15.1	14.7	14.2	13.8	13.3	12.8	12.3	11.7	11.1	10.5	9.9	9.2	8.4	7.6	6.6	5			
		50		15.7	15.3	14.9	14.4	14	13.5	13	12.5	12	11.4	10.8	10.2	9.5	8.8	8	7.1	5.8	3.6			
		60	15.9	15.5	15.1	14.6	14.2	13.7	13.2	12.7	12.2	11.6	11.1	10.4	9.8	9.1	8.3	7.5	6.3	4.6				
Shut-off PSI			386	369	351	334	317	299	282	265	247	230	213	196	178	161	144	126	109	92	74	57	40	568

MODEL 13ESN

SIMFLO

PERFORMANCE CURVES



MODEL 13ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100	120	140
13ESN - 5STG	1/2	0			19	17	14.6	11.8	6.4
		20	18.8	16.4	13.8	10.8	4.6		
		30	16	13.2	10	2			
		40	13	9.4	1.5				
		50	8.6						
		60	4						
Shut-off PSI			58	49	41	32	23	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			0	20	40	60	80	110	130	150	170	210
13ESN - 7STG	3/4	0					20	17.9	16.3	14.5	12.4	6.1
		20		20.9	19.6	18.2	16.6	13.9	11.7	8.9	4	
		30		19.4	17.9	16.3	14.6	11.3	8.4	2.4	8.5	
		40	19.2	17.7	16.1	14.3	12.2	7.8				
		50	17.5	15.8	14	11.8	9					
		60	15.6	13.7	11.4	8.5						
Shut-off PSI			95	86	78	69	61	48	39	30	22	4

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300
13ESN - 10STG	1	0							18.8	17.6	16.4	15.1	13.7	12.1	10.2	7.9	4.4
		20					18.4	17.3	16	14.7	13.2	11.5	9.5	7			
		30				18.3	17.1	15.8	14.5	13	11.2	9.2	6.5				
		40			18.1	16.9	15.6	14.2	12.7	10.9	8.8	6					
		50		17.9	16.7	15.4	14	12.5	10.6	8.5	5.4						
		60	17.7	16.5	15.2	13.8	12.2	10.3	8.1	4.7							
Shut-off PSI			125	116	108	99	90	82	73	64	56	47	38	30	21	12	4

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			40	60	80	100	120	140	160	180	200	220	240	260	280	320	360
13ESN - 12STG	1 1/2	0								19.1	18.3	17.4	16.4	15.4	14.3	11.7	7.9
		20						18.9	18	17.1	16.1	15.1	13.9	12.7	11.2	7	
		30					18.7	17.9	16.9	16	14.9	13.7	12.4	10.9	9.1		
		40				18.6	17.7	16.8	15.8	14.7	13.5	12.2	10.7	8.8	6		
		50		19.3	18.5	17.6	16.7	15.6	14.6	13.4	12	10.4	8.4	5.3			
		60	19.2	18.3	17.4	16.5	15.5	14.4	13.2	11.8	10.2	8.1	4.4				
Shut-off PSI			147	139	130	121	113	104	95	87	78	70	61	52	44	26	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			120	160	200	240	280	320	340	360	380	400	420	440	460	480	500	520
13ESN - 17STG	2	0					18.3	17.1	16.5	15.8	15	15.1	13.2	12.2	11	9.8	8.2	6
		20				18.2	16.9	15.5	14.8	13.9	12.7	11.8	10.2	9.2	7.8	4.6		
		30			18.7	17.5	16.2	14.7	13.8	12.8	11.5	10.6	9.1	7.5	4.8			
		40		18.9	13.1	16.7	15.3	13.5	12.7	11.5	10.4	9.3	6.9	4.4				
		50		18.5	11.8	16	14.3	12.4	11.5	10	8.6	6.8	4					
		60	18.8	17.7	10.3	14.9	13.4	11	10.1	8.4	6.4	3.8						
Shut-off PSI			182	165	148	130	113	96	87	78	70	61	53	44	35	27	18	9

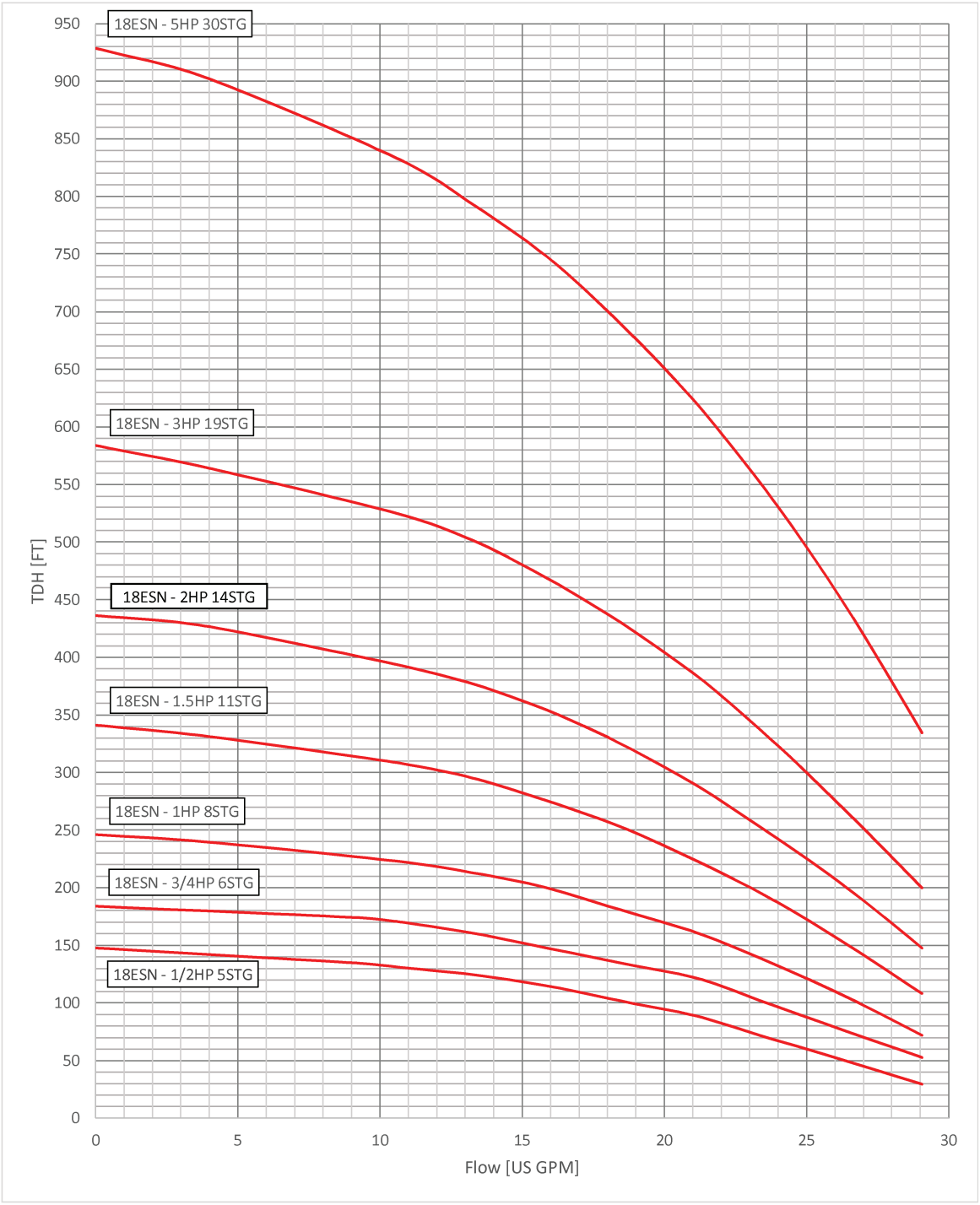
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																
			200	220	240	260	280	300	320	340	360	380	420	460	500	540	580	620	660
13ESN - 21STG	3	0								18.9	18.5	18	16.9	15.7	14.5	12.9	11	9	4.6
		20						18.7	18.5	17.9	17.2	16.7	15.9	14.2	12.6	11.8	8.6	3.8	
		30					18.6	18.4	17.8	17.2	16.6	16	14.8	13.4	11.7	9.7	6.2		
		40				18.6	18.2	17.9	17	16.5	15.9	15.3	13.9	12.3	10.2	7.8			
		50		19	19.1	18.2	17.6	17	16.3	15.9	15.2	14.5	13.1	11.2	9.1	5.4			
		60	19.1	18.5	17.9	17.4	16.8	16.5	15.8	15	14.4	13.8	12.1	10.2	7.2				
Shut-off PSI			203	194	186	177	169	160	151	143	134	125	108	91	73	56	39	21	4

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																
			400	440	480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040
13ESN - 35STG	5	0					18.7	18.1	17.5	16.8	16.1	15.4	14.5	13.8	12.9	11.8	10.5	9.2	6.1
		20				18.7	18	17.5	16.7	15.9	15.2	14.4	13.6	12.6	11.6	10.6	9	5.4	
		30			18.8	18.3	17.7	16.9	16.2	15.5	14.6	14	13.2	12.1	10.9	9.2	7.4		
		40			18.6	17.9	17.3	16.5	15.8	15.1	14.2	13.6	12.6	11.4	10.3	8.6	5.2		
		50		18.8	18.2	17.6	16.8	16.3	15.5	14.7	13.9	13	11.8	10.6	9.6	7.6			
		60	18.9	18.5	17.8	17.1	16.5	15.8	15	14.2	13.4	12.4	11.2	9.8	8.4	4.5			
Shut-off PSI			291	274	257	239	222	205	187	170	153	135	118	101	83	66	49	32	14

MODEL 18ESN

SIMFLO

PERFORMANCE CURVES



MODEL 18ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100	120	140
18ESN - 5STG	1/2	0			25.1	22.2	18.7	14.3	5.2
		20	24.2	21.1	17.5	12.7			
		30	20.6	16.8	11.8				
		40	16.1	10.7					
		50	9.6						
		60							
Shut-off PSI			55	47	38	29	21	12	3

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]								
			20	40	60	80	100	120	140	160	180
18ESN - 6STG	3/4	0				26	23.6	20.8	17.6	13.5	2.9
		20			22.8	19.9	16.4				
		30	24.9	22.4	19.4	15.8	10.9				
		40	21.9	18.9	15.2	9.9					
		50	18.4	14.5	8.8						
		60	13.8	7.4							
Shut-off PSI			71	62	54	45	36	28	19	10	2

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]											
			20	40	60	80	100	120	140	160	180	200	220	240
18ESN - 8STG	1	0						25.1	23.1	20.9	18.5	15.6	12	4
		20			26.3	24.5	22.5	20.2	17.6	14.6	10.5			
		30		26.1	24.2	22.1	19.8	17.2	14	9.7				
		40	25.8	23.9	21.8	19.5	16.8	13.5	8.8					
		50	23.6	21.4	19.1	16.3	12.9	7.7						
		60	21.1	18.7	15.8	12.2								
Shut-off PSI			98	89	81	72	63	55	46	37	29	20	11	3

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			20	40	60	80	100	120	140	160	180	200	220	240	280	320
18ESN - 11STG	1 1/2	0								25.8	24.4	22.9	21.3	19.5	15.2	7
		20						25.4	24	22.4	20.7	18.9	16.8	14.5		
		30					25.2	23.7	22.1	20.4	18.6	16.5	14.1	10.5		
		40				25	23.5	21.9	20.2	18.3	16.1	13.6	9.5			
		50		26.2	24.7	23.2	21.6	19.9	18	15.8	13.2	8.5				
		60	25.9	24.5	23	21.4	19.6	17.6	15.4	12.7	8					
Shut-off PSI			139	130	122	113	104	96	87	78	70	61	52	44	26	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			80	100	120	140	160	180	200	220	240	260	280	300	320	360	400
18ESN - 14STG	2	0							25	23.9	22.7	21.4	20.1	16.5	19	15.2	9.2
		20					26.1	25	23.9	22.7	21.4	20.1	18.7	15.4	14.5	8.2	
		30				26.6	24.6	23.6	22.9	22.1	20.8	18.2	16.5	14.6	11.8		
		40			25.5	24.2	23.4	21.4	20.5	19.5	17.6	16	13.6	10	6.8		
		50		25.5	24.4	23.5	22	20.8	18.3	17.6	15.5	13.5	10				
		60	25.5	24.4	23.5	22	20.5	19.5	17.5	15.6	12.8	10	6				
Shut-off PSI			154	146	137	128	120	111	102	94	85	76	68	59	50	33	16

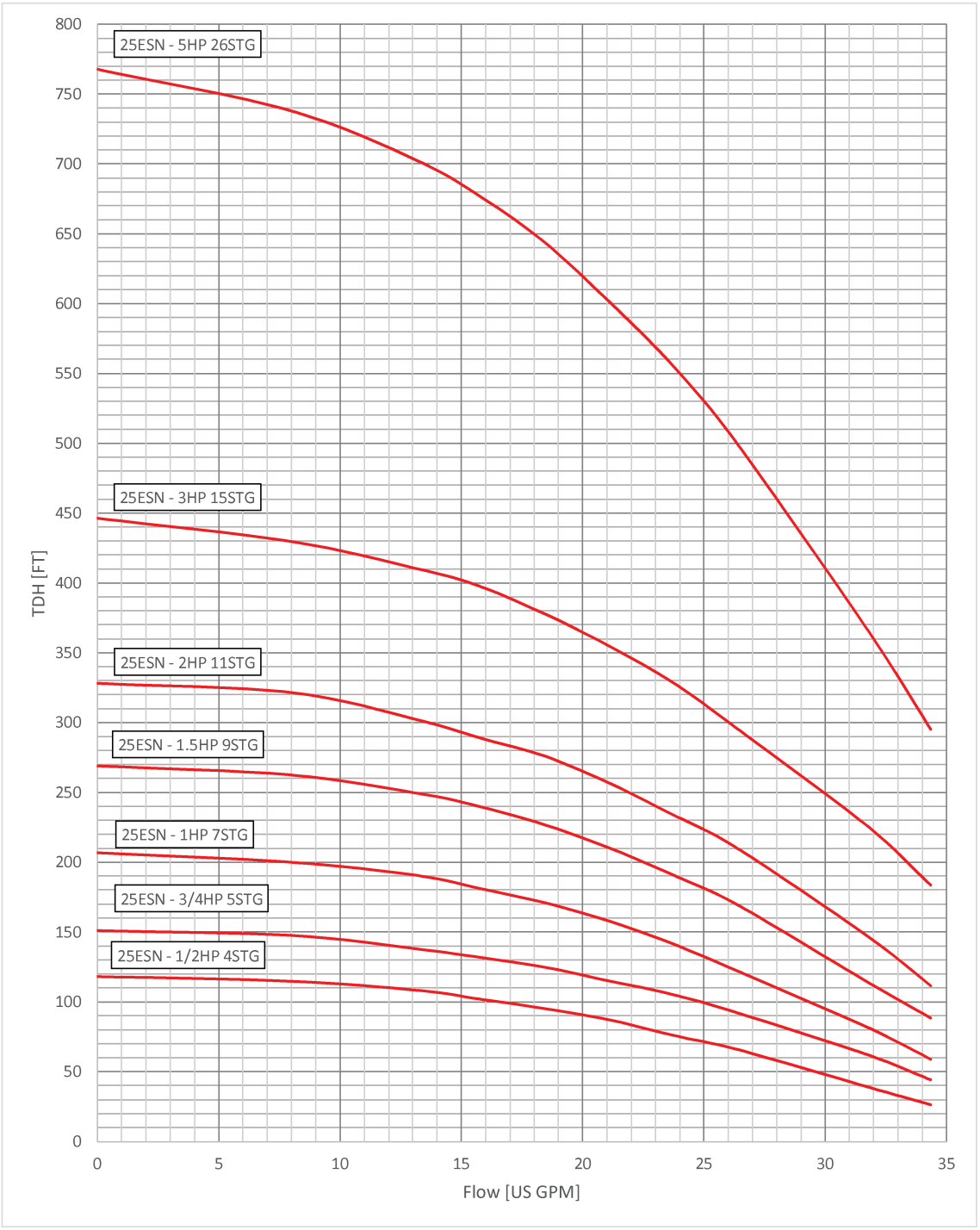
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			140	180	220	240	260	280	300	320	340	360	380	400	440	480	540
18ESN - 19STG	3	0					26.7	25.9	25	24.1	23.2	22.2	21.1	20.1	17.7	14.9	8
		20				25.6	24.7	23.8	22.9	21.9	20.8	19.7	18.5	17.3	14.5	10.2	
		30			25.5	24.6	23.7	22.7	21.7	20.6	19.5	18.4	17.1	15.7	12.5	7	
		40		26.2	24.5	23.5	22.6	21.5	20.5	19.4	18.2	16.9	15.5	14	9.5		
		50	26.9	25.2	23.4	22.4	21.4	20.3	19.2	18	16.7	15.3	13.7	12			
		60	26	24.2	22.2	21.2	20.1	19	17.8	16.5	15	13.5	11.6	9.2			
Shut-off PSI			192	175	158	149	140	132	123	114	106	97	88	80	62	45	19

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			320	360	400	440	480	520	560	600	640	680	720	760	800	840	880
18ESN - 19STG	5	0				26.5	25.3	24.2	22.9	21.6	20.2	18.7	17	15.2	12.8	10	6.3
		20				25.2	24	22.7	21.4	19.9	18.4	16.7	14.9	12.5	9.5		
		30			25.7	24.5	23.2	21.9	20.6	19.1	17.5	15.7	13.7	11	7.4		
		40		26.1	25	23.8	22.5	21.2	19.7	18.2	16.5	14.6	12.1	8.8			
		50		25.5	24.3	23.1	21.7	20.3	18.8	17.2	15.4	13	10.3	6.7			
		60	26	24.8	23.6	22.3	20.9	19.5	17.9	16.2	14.3	11.6	8.5				
Shut-off PSI			263	246	229	211	194	177	160	142	125	108	90	73	56	38	21

MODEL 25ESN

SIMFLO®

PERFORMANCE CURVES



MODEL 25ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]					
			20	40	60	80	100	
25ESN - 4STG	1/2	0		31.7	27.7	22.9	16.6	
		20	26.3	21.2	13.9	11.5		
		30	20.2	12.3	13.2			
		40	10.5	14.7				
		50	16					
		60						
Shut-off PSI			42	34	25	16	8	

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100	120	140
25ESN - 5STG	3/4	0			32	28.6	24.6	19.7	12.7
		20	31	27.4	23.2	17.9	9.2		
		30	26.8	22.5	16.9				
		40	21.7	15.8					
		50	14.7						
		60							
Shut-off PSI			57	48	39	31	22	13	5

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			20	40	60	80	100	120	140	160	180	200
25ESN - 7STG	1	0				32	29.6	26.9	23.9	20.4	16.1	9.3
		20		31.2	28.8	26	22.9	19.2	14.4			
		30	30.9	28.3	25.5	22.4	18.5	13.5				
		40	27.9	25.1	21.8	17.9	12.4					
		50	24.6	21.3	17.1	11.3						
		60	20.7	16.4	10							
Shut-off PSI			81	72	64	55	46	38	29	20	12	3

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			20	40	60	80	100	120	140	160	180	200	220
25ESN - 9STG	1 1/2	0				31.4	29.5	27.4	25	22.4	19.4	15.7	9.8
		20			31.4	29.5	27.4	25	22.4	19.4			
		30			30.5	28.4	26.2	23.8	21				
		40		31.4	29.5	27.4	25	22.4					
		50		30.5	28.4	26.2	23.8						
		60	31.4	29.5	27.4	25							
Shut-off PSI			108	99	90	82	73	65	56	47	39	30	21

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]												
			80	100	120	140	160	180	200	220	240	260	280	300	320
25ESN - 11STG	2	0					30.7	29	27.1	25.1	22.9	20.5	17.6	14.1	8.8
		20				30.7	29	27.1	25.1	22.9	20.5	17.6	14.1	8.8	
		30			31.5	29.8	28.1	26.1	24.1	21.8	19.1	16	11.9		
		40			30.7	29	27.1	25.1	22.9	20.5	17.6	14.1	8.8		
		50		31.5	29.8	28.1	26.1	24.1	21.8	19.1	16	11.9			
		60	32.3	30.7	29	27.1	25.1	22.9	20.5	17.6	14.1				
Shut-off PSI			107	99	90	81	73	64	55	47	38	29	21	12	3

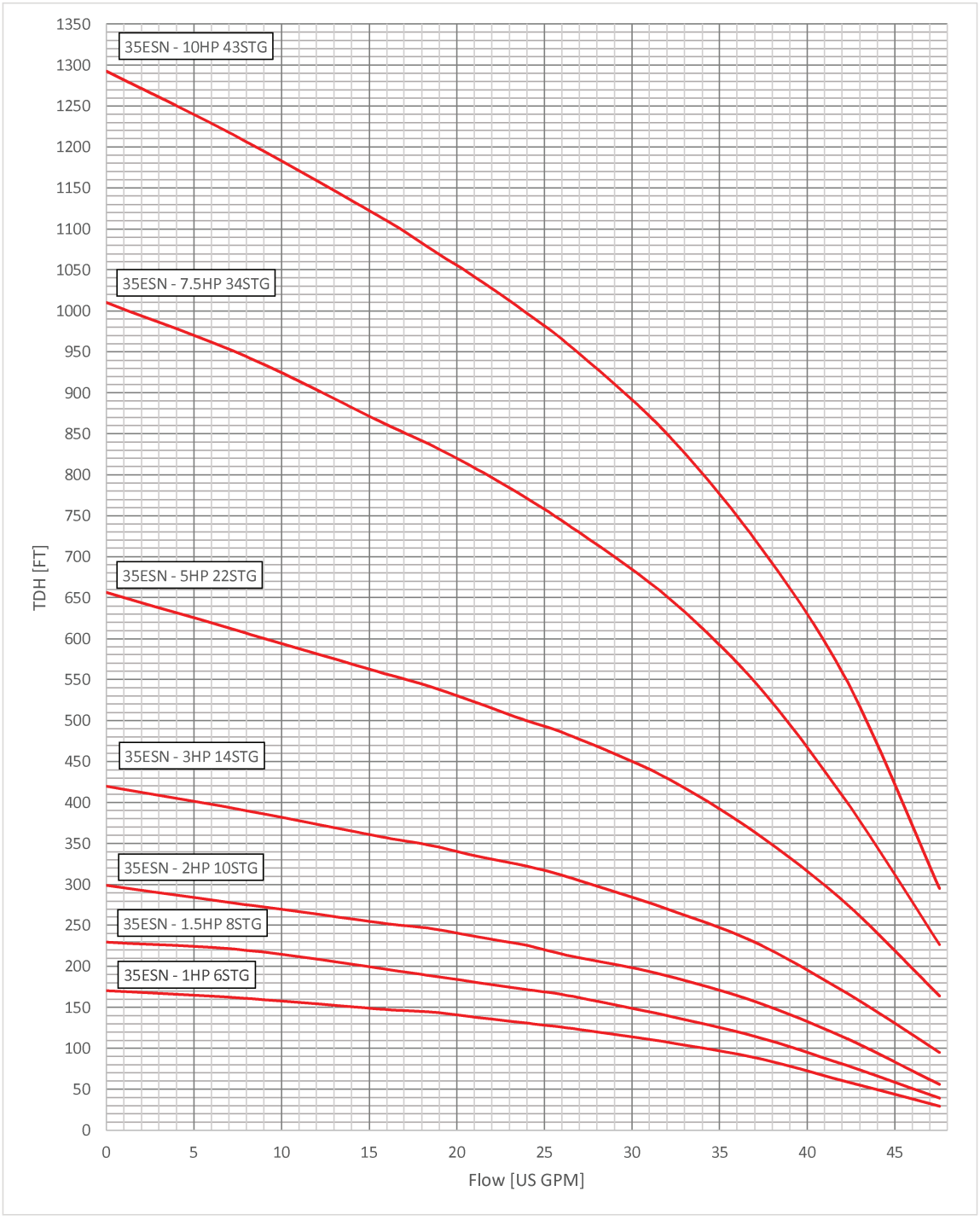
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			80	100	120	140	160	180	200	220	240	260	280	300	320	340	380	420
25ESN - 15STG	3	0							33.4	32.1	30.7	29.3	27.7	26.1	24.3	22.4	18	11
		20					33	31.7	30.3	28.8	27.2	25.6	23.8	21.8	19.6	17.2	8.8	
		30				32.8	31.5	30	28.6	27	25.3	23.5	21.5	19.3	16.8	13.8		
		40			32.6	31.2	29.8	28.3	26.7	25	23.2	21.2	18.9	16.3	12.5			
		50		32.4	31	29.6	28.1	26.5	24.7	22.9	20.8	18.5	15.9	12				
		60	32.2	30.8	29.4	27.8	26.2	24.5	22.6	20.5	18.2	15.4	11.3					
Shut-off PSI			159	150	141	133	124	115	107	98	89	81	72	63	55	46	29	11

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			200	240	280	320	360	400	440	480	520	540	560	580	620	660	700	740
25ESN - 26STG	5	0				33.5	32.1	30.5	28.9	27.2	25.3	24.3	23.3	22.2	19.8	17.1	13.5	7.5
		20			33.3	31.8	30.3	28.6	26.9	25	22.9	21.8	20.7	19.4	16.6	13.6	5.7	
		30			32.5	31	29.3	27.6	25.8	23.8	21.7	20.5	19.2	17.9	14.9	9.8		
		40		33.1	31.6	30	28.4	26.6	24.7	22.6	20.3	19	17.6	16.1	11.8			
		50		32.2	30.7	29.1	27.4	25.5	23.5	21.3	18.8	17.4	15.9	13.5	8.5			
		60	32.9	31.4	29.8	28.1	26.3	24.4	22.3	19.9	17.2	15.8	13.6	11.2				
Shut-off PSI			246	228	211	194	176	159	142	125	107	99	90	81	64	47	29	12

MODEL 35ESN

SIMFLO®

PERFORMANCE CURVES



MODEL 35ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]							
			20	40	60	80	100	120	140	160
35ESN - 6STG	1	0		45.5	42	38.5	34	28	20	8
		20	41	37.5	29.5	26	17			
		30	37	32	25	15				
		40	30	24	12					
		50	22	11						
		60	9.9							
Shut-off PSI			65	57	48	39	31	22	13	5

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			20	40	60	80	100	120	140	160	180	200	220
35ESN - 8STG	1 1/2	0			45.1	42	38.7	35.2	31.3	27	21.9	15	6.9
		20	44.2	41	37.7	34	30	25.5	20.2	13.5			
		30	40.5	37.1	33.4	29.4	24.7	19.3	12.2				
		40	36.6	32.8	28.7	23.9	18.3	10.8					
		50	32.2	28	23.1	17.3	9.3						
		60	28.2	22.3	16.3	7.7							
Shut-off PSI			91	82	73	65	56	47	39	30	21	13	4

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			20	40	60	80	100	120	140	160	180	200	220	240	260	280
35ESN - 10STG	2	0					43.4	41.2	39	36.3	33.5	29.5	25.1	20.3	12.5	6.5
		20			42.8	40.8	38.2	36	32.5	28	24	19	6.5	4.5		
		30			40.2	38.5	35.8	32.2	28	23.1	18	10.5	4.5			
		40		40	37.4	36	31.4	26.4	21.6	15.6	8					
		50		37.5	34.2	34.2	26.5	21.5	18	6.5						
		60	37.2	34.2	30.2	25.6	20.5	14.2	7.5							
Shut-off PSI			121	112	103	95	86	77	69	60	51	43	34	25	17	8

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			20	40	60	80	100	120	140	160	180	200	220	240	280	320	360
35ESN - 14STG	3	0							44.6	42.8	40.9	38.9	36.8	34.6	29.8	24.2	15
		20					44	42.2	40.2	38.2	36.1	33.9	31.5	29	23.2	11.5	
		30				43.7	41.9	39.9	37.9	35.8	33.5	31.1	28.6	25.8	18	11	
		40			43.5	41.6	39.6	37.6	35.4	33.2	30.7	28.1	25.3	22	12		
		50		43.2	41.3	39.3	37.3	35.1	32.8	30.3	27.7	24.9	21	16	6.5		
		60	42.9	41	39	36.9	34.7	32.4	30	27.3	24.4	20	15.5	11			
Shut-off PSI			173	164	156	147	139	130	121	113	104	95	87	78	61	43	26

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																
			100	140	180	220	260	300	320	340	360	380	400	420	460	500	540	580	620
35ESN - 22STG	5	0				45.4	42.9	41	39.6	38.5	36.1	35.8	34.5	32.8	28	24.2	18.5	12	6
		20			44.8	42.5	40.5	38.2	35.6	35.2	33.8	30.9	29.2	27.4	23.5	17.5	11.5		
		30			43.6	41	38.3	35.4	33.9	32.3	30.7	29	27.1	25.2	21	14	7.5		
		40		44.6	42.1	39.5	36.7	33.7	32.1	30.4	28.7	26.9	24.9	22.9	17	10			
		50	45.6	43.2	40.6	37.9	35	31.8	30.1	28.4	26.6	24.6	22.5	19	13	6.5			
		60	44.2	41.7	39	36.2	33.2	29.9	28.1	26.3	24.3	22.2	19	15.5	9				
Shut-off PSI			241	223	206	189	171	154	146	137	128	120	111	102	85	68	50	33	16

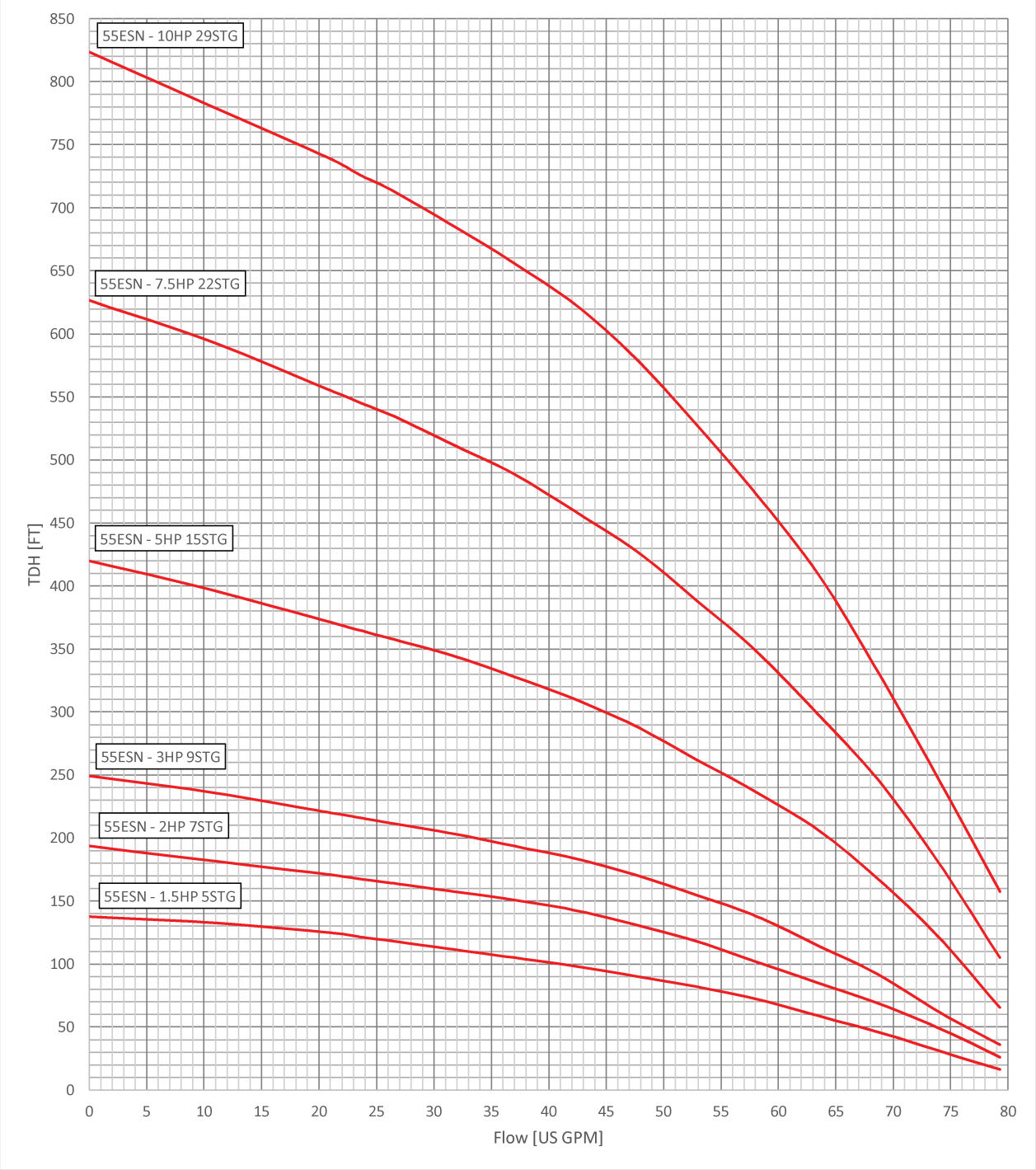
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																			
			140	180	220	260	300	340	380	420	460	480	520	560	600	640	680	720	760	800	840	880
35ESN - 34STG	7 1/2	0					45.5	44	42.9	41.3	40.2	38.8	37.2	35.5	33.6	31.5	29	23.5	20.8	16	12.3	8.5
		20				45.2	44.1	42.8	39.4	38.1	36.7	37.8	36.2	34.6	31.1	28.8	25.8	22.9	19.5	11.5		
		30				44.6	43.2	41.1	38.4	37.8	37.4	37	35.2	33.2	29.9	27.5	24.5	21.2	17.5			
		40			44	43.7	42.8	40.8	37.4	36.5	36	35.5	33.8	31.9	28.6	26.1	22	18.8	15			
		50			44.2	43	41.6	40.5	36.4	35	34.5	33	32.6	30.6	27.1	24.7	20.5	16.5				
		60		44.6	43.8	42.3	41	39.2	35.4	33.9	32.3	31.1	31.8	29.2	25.8	23.2	18.3	14.5				
Shut-off PSI			392	377	360	342	325	308	290	273	256	238	230	212	195	178	160	143	126	108	91	74

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																			
			200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
35ESN - 43STG	10	0						44.5	43	41.5	39.9	38.2	36.5	34.7	32.8	30.8	28.7	26.5	24	20.5	16.7	12.5	8.5
		20					44.6	43.1	41.6	40	38.3	36.6	34.8	33	31	28.9	26.6	24.2	20.5	17	13		
		30				45	43.9	42.4	40.8	39.2	37.6	35.8	34	32.1	30	27.9	25.5	22.5	19	15	11		
		40				44.5	43.2	41.7	40.1	38.5	36.8	35	33.1	31.1	29	26.8	24.4	21	17	13	9		
		50			45.1	44	42.5	41	39.4	37.7	35.9	34.1	32.2	30.2	28	25.7	22.5	19	15.5	11.5	7		
		60			44.8	43.3	41.8	40.2	38.6	36.9	35.1	33.2	31.3	29.2	27	24.6	21	17.5	13.5	9			
Shut-off PSI			473	451	430	408	386	365	343	321	300	278	257	235	213	192	170	148	127	105	83	62	40

MODEL 55ESN

SIMFLO

PERFORMANCE CURVES



MODEL 55ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100	120	130
55ESN - 5STG	1 1/2	0		70	63	54.8	41.3	25	14.2
		20	61	50.8	36	20			
		30	47.8	34.3	16.9				
		40	30.4	10.2					
		50	6.2						
		60							
Shut-off PSI			51	42	34	25	16	8	3

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]								
			20	40	60	80	100	120	140	160	180
55ESN - 7STG	2	0			71	64.9	58.2	50.8	42.1	30	13
		20	69.2	62.9	57	50	39.1	25			
		30	61.9	54.9	49	38.5	23				
		40	53.7	47	35.8	19					
		50	46	34.1	18						
		60	32.2								
Shut-off PSI			75	66	58	49	41	32	23	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			20	40	60	80	100	120	140	160	180	200	220
55ESN - 9STG	3	0			75.4	70.9	66.2	61.2	55.7	49.7	42.8	34.8	21
		20		69.5	64.7	48.5	53.5	48.5	39	25	17		
		30	68.8	65	60.2	55	46.6	37.5	39.5	14			
		40	63.1	58.8	53	47	37.5	23.6					
		50	59	52.9	45.3	36.7	22						
		60	52	43.3	35.4	23							
Shut-off PSI			99	91	82	73	65	56	47	39	30	21	13

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			40	60	80	100	120	140	160	180	200	220	240	260	280	320	360	400
55ESN - 15STG	5								68.8	66.8	64.7	61	56	53.3	48.4	39.5	25.5	9.4
		20					69	66	63	59.4	56.9	52.7	48	48	38	23		
		30				67.4	66	63.5	59.5	55.3	52.9	48	42.1	37	30.5	14		
		40		69.8	66.9	65	62	58.5	54.5	50.9	45.5	41	35.5	28	19			
		50	69.4	66.5	63.4	62	58	54	49.3	46.2	41	35	27	19	11			
		60	66	62.9	59.6	58	54	50	45.5	40.9	31	26	19	10				
Shut-off PSI			164	156	147	139	130	121	113	104	95	87	78	69	61	43	26	9

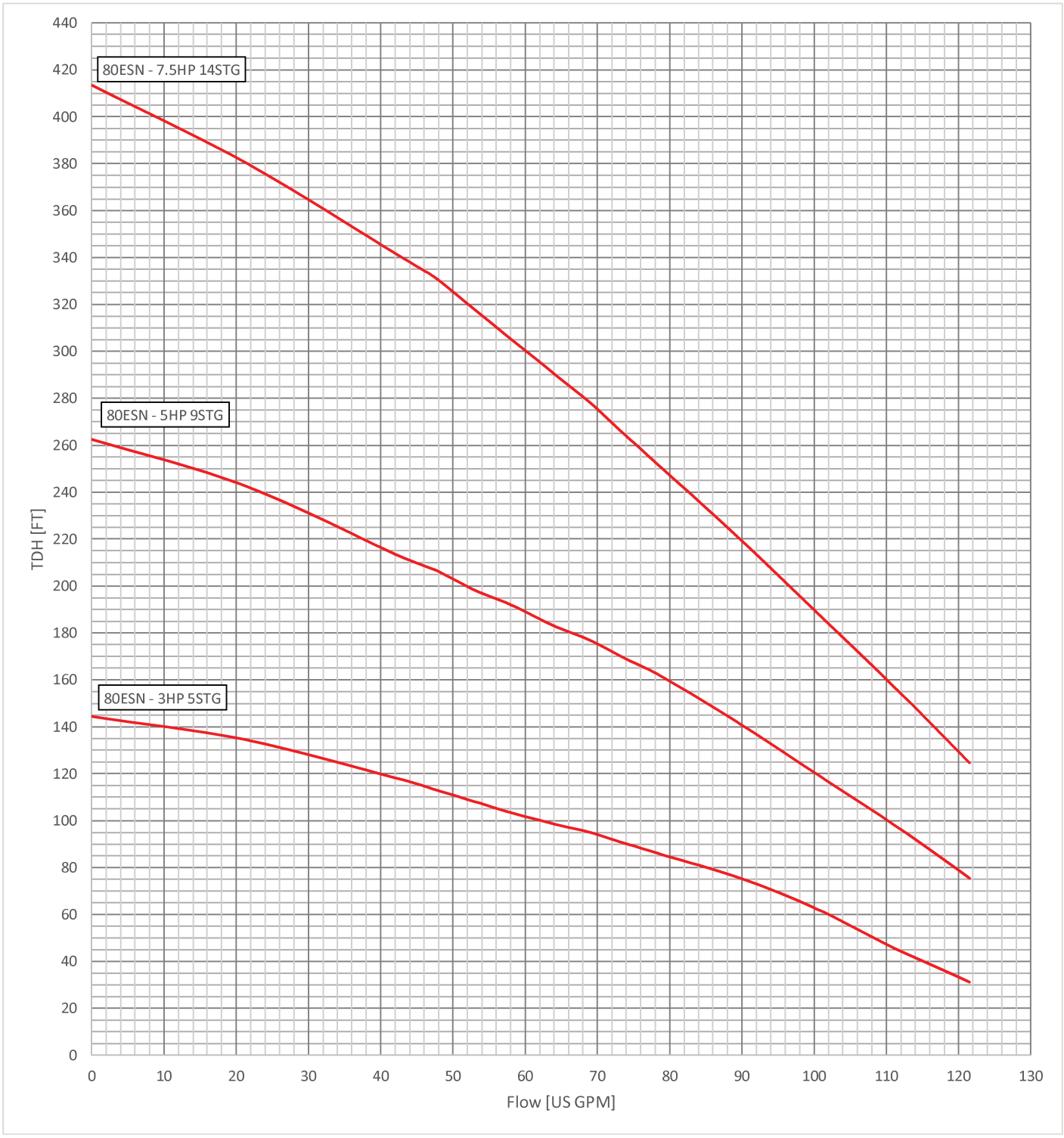
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			80	120	160	200	240	280	320	340	360	380	400	420	440	480	520	560	600
55ESN - 22STG	7 1/2	0				72.3	68.5	65.4	61.1	59	56.4	54	51.4	47.7	46.2	38.7	29.8	19.5	8.5
		20			71.8	68.5	63.7	60.4	55.7	53.4	50.6	47.8	44.5	41	38.9	29	19.2		
		30			70.5	66.5	61.2	57.7	52.8	50.4	47.4	44.5	41.4	37.1	33	23	11.7		
		40		71.2	68	63.1	59.5	54.9	49.7	46.5	44	41.5	35	31.5	26.5	16.5			
		50	73	69.5	65.5	61.5	57	52	46.5	43.8	39.5	35	31	26	21	9			
		60	71.5	67.5	63.5	60.5	54.5	49.5	42.5	39.5	35	30.5	26	19.5	15.5				
Shut-off PSI			237	219	202	185	167	150	133	124	115	107	98	89	81	63	46	29	12

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]																
			160	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800
55ESN - 29STG	10	0					69.3	66.2	64.1	61	57.3	53.5	49.5	45.2	39.4	32.9	25	16.8	6
		20				68.8	66.5	64	60.2	56.9	52.9	48.9	44.5	39.6	32	24	15		
		30			70	67.1	65	61.7	58.2	54.8	50.6	46.4	41.7	34	27.5	18.5	8.8		
		40			68.3	66	63	60	56.1	52.5	48.2	43.7	38	29	22.5	12.5			
		50		69.6	67.2	64	61.5	58	54	49.2	45.7	40.9	34	26	17	7			
		60	70.8	67.9	66	63	58.2	56	51.7	47.8	43	37.9	29	22	11.5				
Shut-off PSI			287	270	253	235	218	201	183	166	149	131	114	97	79	62	45	27	10

MODEL 80ESN

SIMFLO®

PERFORMANCE CURVES



MODEL 80ESN

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]							
			20	40	60	80	100	120		
80ESN - 5STG	3	0		116.4	100.8	83.4	63.7	40.1		
		20	95.6	79	56.9	34				
		30	74.6	52	34					
		40	49.7	26						
		50								
		60								
Shut-off PSI			54	45	37	28	19	11		

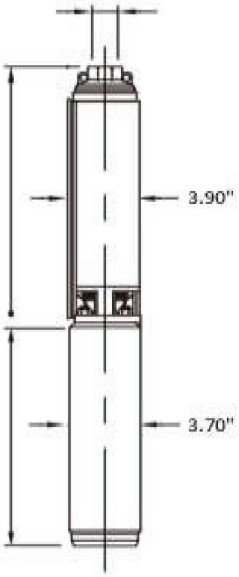
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			20	40	60	80	100	120	140	160	180	200	220
80ESN - 9STG	5	0					110.4	100.4	90.5	79.5	66.3	53.1	38.6
		20			107.4	97.2	87.8	75.8	62.4	48.8			
		30		105.8	95.5	85	74	60.4	46.6				
		40	104.3	93.9	85	73	52	44.3					
		50	92.2	82	70	56.2	41						
		60	79.3	67.2	53	39.6							
Shut-off PSI			105	96	88	79	70	62	53	44	36	27	18

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			20	40	60	80	100	120	140	160	180	200	220	240	280	320	360
80ESN - 14STG	7 1/2	0							116.3	110.1	103.8	97.2	90.4	82.3	68.1	51.5	32.4
		20					115	108.2	101.7	94.2	87.8	81.5	73.4	67	51	31	
		30				113.5	107.2	100.8	93	86.5	80	73	65	59.5	41.5	20	
		40			112.5	106.2	96.5	93	86.1	78.8	71.2	61.7	55.5	47.5	26		
		50		111.5	105.2	98.7	92	84.2	77.7	70	62	56	46	35			
		60	110.6	104.2	97.7	90.9	83.9	76.5	68.8	60.7	52.1	47.6					
Shut-off PSI			170	162	153	144	136	127	118	110	101	92	84	75	58	40	23

ESS Model - General Data

Model	HP	Stages	Order Number	Length (IN)	Discharge	Weight (LBS)
5ESS	1/2	13	△	17.3	1-1/4" NPT	7.9
	3/4	18	△	21.5	1-1/4" NPT	9.7
	1	22	△	24.8	1-1/4" NPT	11.2
	1 1/2	26	△	28.1	1-1/4" NPT	12.8
	2	31	△	33.1	1-1/4" NPT	19.4
10ESS	1/2	9	△	13	1-1/4" NPT	7.3
	3/4	12	ESS.04O14.010.15.10D	15.2	1-1/4" NPT	8.4
	1	15	△	17.9	1-1/4" NPT	9.9
	1 1/2	21	△	21.5	1-1/4" NPT	11.9
	2	27	△	26.6	1-1/4" NPT	14.6
	3	34	△	33.8	1-1/4" NPT	20.5
	5	48	△	47.2	1-1/4" NPT	25.4
18ESS	1/2	7	△	10.7	1-1/4" NPT	5.1
	3/4	10	△	12.4	1-1/4" NPT	5.7
	1	12	△	14	1-1/4" NPT	6.6
	1 1/2	17	△	17.3	1-1/4" NPT	8.4
	2	20	△	20.6	1-1/4" NPT	9.9
	3	27	△	25.6	1-1/4" NPT	12.6
	5	42	△	37.2	1-1/4" NPT	23.1
25ESS	1/2	4	△	9.9	1-1/2" NPT	4.4
	3/4	5	△	10.7	1-1/2" NPT	4.9
	1	7	△	12.4	1-1/2" NPT	5.7
	1 1/2	9	△	14	1-1/2" NPT	6.6
	2	11	△	15.7	1-1/2" NPT	7.5
	3	15	△	19	1-1/2" NPT	9
	5	26	ESS.04O18.025.26.50D	28.1	1-1/2" NPT	13.7
40ESS	2	5	△	19.5	2" NPT	11.7
	5	6	△	32.8	2" NPT	20.5
	7 1/2	8	ESS.04O20.040.25.75D	49.3	2" NPT	31.5

*Contact Factory for product avaliblity outside of listings
Rotation is Counterclockwise when observed from pump discharge end



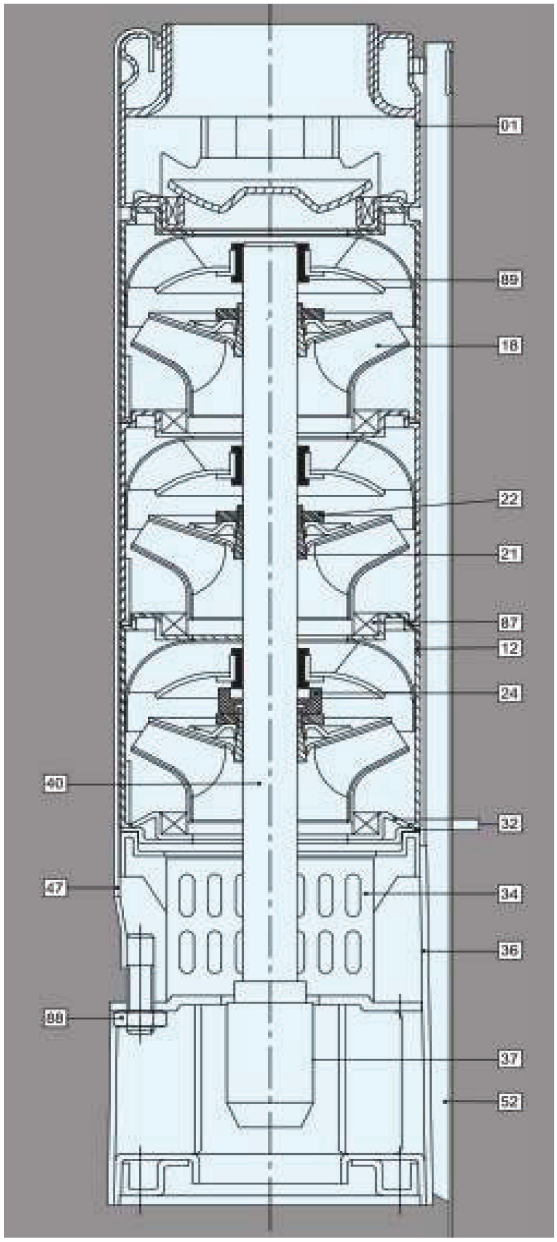
Agency Listing

Drinking Water NSF/ANSI 61
NSF/ANSI 372

Features:

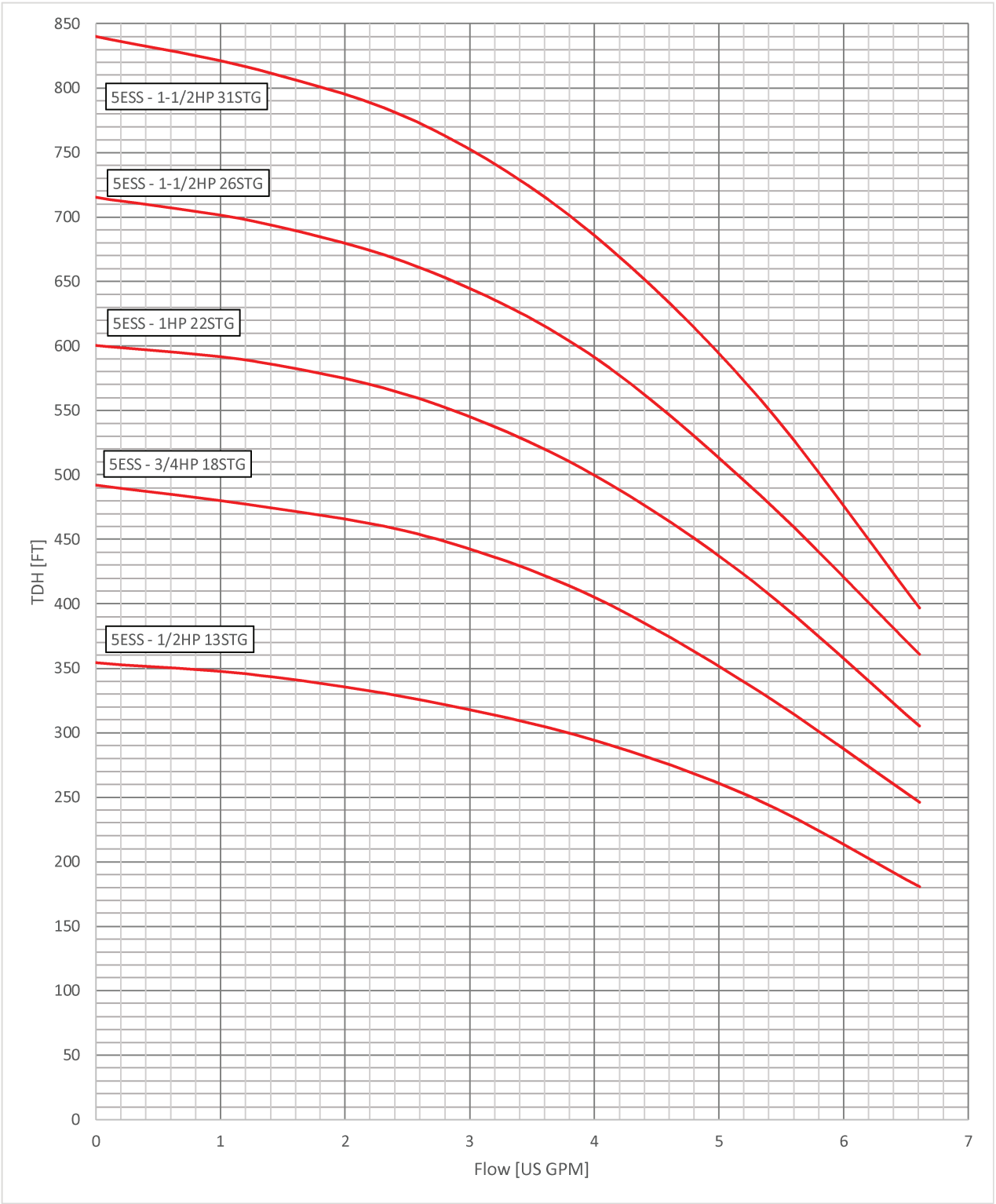
Stainless steel construction desgined and built for years of trouble free operation.
Designed and built to operate in difficult conditions.
All metal parts are made of 304SS steel.
Heavy duty stainless steel discharge with built-in check valve to help prevent back flow and allevite water hammer.
High quality shaft bearing provide low friction and high wear resistance.
Stop ring prevents to the pump during trasport and is designed as a thrust bearing,limiting axial moments of the pumpshaft.
Stainless steel strainer to restrict the enty of sand and other exraneous material.
Sand Content: Max. 50g/m3

GENERAL DATA



Pos.	Part Name	Materials
1	Discharge	304 SS
12	Diffuser	304 SS
18	Impeller	304 SS
21	Split Cone	304 SS
22	Split Cone Nut	304 SS
24	Stop Ring	Carbon+Graphite+PTFR
32	Neck Ring Retainer	304 SS
34	Strainer	304 SS
36	Suction Interconnector	304 SS
37	Coupling	304 SS
40	Pumpshaft	304 SS
47	Strap	304 SS
52	Cable Guard	304 SS
87	Neck Ring Retainer	304 SS + NBR
88	Nut	304 SS
89	Bearing	NBR

PERFORMANCE CURVES



MODEL 5ESS

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]												
			80	100	120	140	160	180	200	220	240	260	280	300	320
5ESS - 13STG	1/2	0							6.2	5.9	5.5	4.8	4.4	3.8	2.9
		20					6.1	5.8	5.3	4.6	4.3	3.5	2.5	1.2	
		30				6.1	5.7	5.3	4.6	4.3	3.6	2.4			
		40			6	5.6	5.1	4.5	3.9	3.2	2.1				
		50		6	5.6	5.1	4.5	3.9	3.1	2					
		60	6	5.5	5.1	4.5	3.8	3	1.9						
Shut-off PSI			119	110	101	93	84	75	67	58	49	41	32	24	15

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			140	160	180	200	220	240	260	280	300	320	340	360	380	420	460
5ESS - 18STG	3/4	0							6.4	6.1	5.8	5.5	5.2	4.9	4.5	3.6	2.3
		20					6.3	6.1	5.7	5.5	5.1	4.7	4.4	4	3.5	2.1	
		30				6.3	6.1	5.7	5.5	5.1	4.6	4.3	3.9	3.5	2.7		
		40			6.2	5.9	5.7	5.4	4.9	4.6	4.2	3.8	3.4	2.6			
		50		6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.8	3.2	2.1				
		60	6.2	5.9	5.6	5.4	4.9	4.5	4.1	3.7	3.1	1.7					
Shut-off PSI			152	144	135	126	118	109	100	92	83	75	66	57	49	31	14

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			200	240	280	320	360	400	420	440	460	480	500	520	540	560	580
5ESS - 22STG	1	0					6	5.5	5.2	4.9	4.6	4.3	4	3.6	3.1	2.6	1.6
		20			6.4	5.9	5.4	4.8	4.5	4.2	3.8	3.4	3	2.4	1.4		
		30			6.1	5.6	5.1	4.5	4.1	3.8	3.4	2.9	2.3	1.4			
		40		6.3	5.8	5.3	4.8	4.1	3.7	3.3	2.8	2.2					
		50		6.1	5.6	5	4.4	3.7	3.2	2.7	2.1						
		60	6.2	5.8	5.2	4.7	4	3.2	2.6	1.9							
Shut-off PSI			173	156	139	121	104	87	78	69	61	52	43	35	26	17	9

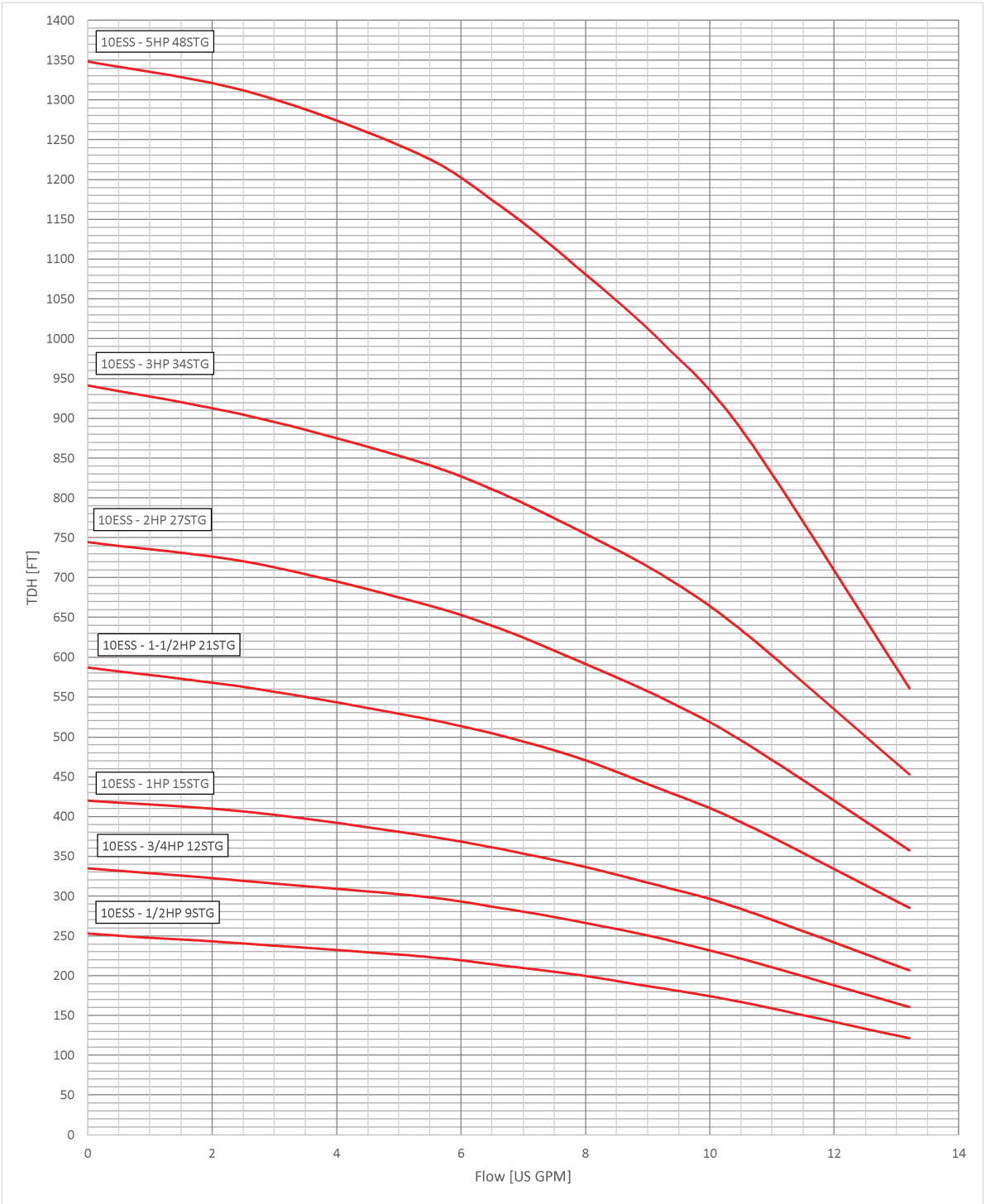
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			260	300	340	380	420	460	500	540	560	580	600	620	640	660	680
5ESS - 26STG	1 1/2	0				6.4	6	5.6	5.2	4.7	4.4	4.1	3.8	3.4	3.1	2.6	2
		20			6.4	6	5.4	5.1	4.6	4	3.7	3.3	2.9	2.5	1.8		
		30		6.5	6.1	5.7	5.3	4.8	4.3	3.6	3.3	2.9	2.4	1.6			
		40		6.3	5.9	5.5	5	4.5	3.9	3.2	2.6	2.3	1.2				
		50	6.5	6.1	5.7	5.2	4.7	4.2	3.6	2.5	2.2	1.3					
		60	6.3	5.9	5.4	4.9	4.4	3.8	3.1	2.1	1.2						
Shut-off PSI			197	180	162	145	128	110	93	76	67	59	50	41	33	24	15

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]														
			300	340	380	420	460	500	540	560	580	620	660	700	740	780	820
5ESS - 31STG	1 1/2	0				6.5	6.1	5.8	5.5	5.3	5.1	4.7	4.3	3.8	3.2	2.5	1
		20			6.4	6.1	5.8	5.4	5	4.8	4.6	4.2	3.7	3.1	2.3		
		30		6.5	6.2	5.9	5.6	5.2	4.8	4.6	4.4	3.9	3.4	2.5	1.5		
		40		6.4	6.1	5.7	5.4	5	4.6	4.4	4.1	3.6	3	2			
		50	6.5	6.2	5.9	5.5	5.1	4.7	4.3	4.1	3.8	3.3	2.6	1.2			
		60	6.3	6	5.7	5.3	4.9	4.5	4	3.8	3.5	2.9	2				
Shut-off PSI			234	216	199	182	164	147	130	121	113	95	78	61	43	26	9

MODEL 10ESS

SIMFLO®

PERFORMANCE CURVES



MODEL 10ESS

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			0	20	40	60	80	100	110	120	130	140	150	170	200	240
10ESS - 9STG	1/2	0									12.8	12.2	11.6	10.2	7.9	2.5
		20						11.8	11.2	10	9.8	9	8.2	6.3	1.5	
		30				12.8	11.6	9.9	9.8	9	8.2	7.2	6.2	3.2		
		40			12.6	11.6	10	8.5	7.6	6.5	5.6	3.6	2			
		50		12.4	11.2	9.8	8.2	6.4	5.2	3.6						
		60	12.3	11	9.6	8.2	6.2	3.3								
Shut-off PSI			109	101	92	83	75	66	62	57	53	49	44	36	23	5

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			40	60	80	100	120	140	160	180	200	220	240	260	280	320
10ESS - 12STG	3/4	0								12.4	11.5	10.6	9.5	8.3	7	2.4
		20						12.2	11.2	10.3	9.2	7.9	6.5	4.7		
		30					12	11.1	10.1	9	8	6.3	4.2			
		40			12.4	11.6	10.9	9.9	8.8	7.5	5.6	3.1				
		50		12.6	11.7	10.8	9.8	8.6	7.3	5.7	3					
		60	12.5	11.6	10.6	9.6	8.7	7.3	5.6	3.2						
Shut-off PSI			128	119	110	102	93	84	76	67	58	50	41	32	24	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			100	120	140	160	180	200	220	240	260	280	300	340	360	400
10ESS - 15STG	1	0								12.1	11.4	10.6	9.7	7.8	6.6	3.4
		20					12.6	11.9	11.1	10.5	9.4	8.5	7.4	4.5	2.5	
		30				12.5	11.8	11	10.5	9.5	8.5	7.5	6	2.3		
		40			12.4	11.7	10.9	10.1	8.6	8.2	7.1	5.5	3.6			
		50		12.3	11.5	10.8	9.9	9	8.1	6.7	5.6	3.4				
		60	12.2	11.4	10.6	9.8	8.9	8	6.7	5.3	3.5					
Shut-off PSI			139	130	121	113	104	95	87	78	69	61	52	35	26	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			180	200	220	240	260	280	300	320	380	420	460	500	540	560
10ESS - 21STG	1 1/2	0							12.9	12.4	10.8	9.6	8.3	6.7	4.6	3.2
		20					12.8	12.2	11.8	11.2	9.4	8.2	6.4	3.8		
		30				12.7	12.2	11.7	11.1	10.6	8.9	7.2	4.9	2		
		40			12.6	12.1	11.6	11	10.5	9.9	7.8	5.9	3.3			
		50		12.5	12	11.5	11	10.4	9.8	9.1	6.9	4.5				
		60	12.5	12	11.2	10.9	10.3	9.7	9	8.5	5.8	3.1				
Shut-off PSI			176	168	159	150	142	133	124	116	90	72	55	38	20	12

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			260	280	300	320	360	400	440	480	520	560	600	640	680	720
10ESS - 27STG	2	0						12.4	11.7	10.8	9.9	8.9	7.8	6.5	4.9	2.4
		20					12.3	11.5	10.7	9.7	8.7	7.6	6.2	4.6	2.2	
		30				12.7	11.9	11	10.2	9.2	8.1	6.8	5.4	3.4		
		40			12.5	12.2	11.4	10.5	9.6	8.5	7.5	6	4.2	1.5		
		50		12.5	12.1	11.7	10.9	10	9	7.9	6.6	5.1	2.9			
		60	12.5	12.1	11.7	11.3	10.4	9.4	8.4	7.2	5.8	4				
Shut-off PSI			210	201	193	184	167	149	132	115	97	80	63	45	28	11

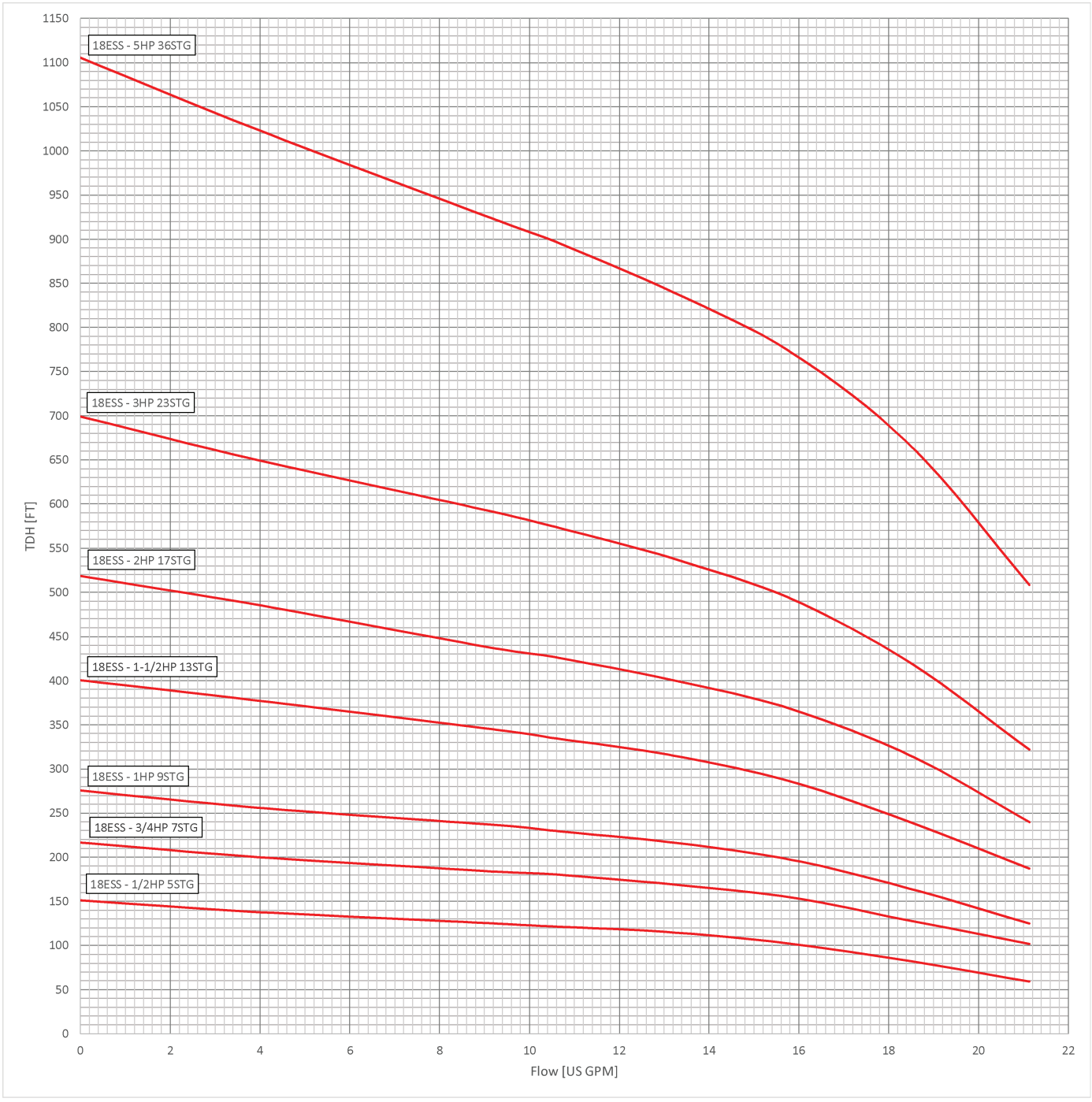
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			380	420	460	500	540	580	620	660	700	740	780	820	860	900
10ESS - 34STG	3	0				12.6	12	11.3	10.7	9.9	9.1	8.3	7.3	6.3	5	2.6
		20			12.5	11.9	11.2	10.5	9.8	9	8.2	7.2	6.1	4.4	2.4	
		30			12.2	11.5	10.8	10.3	9.4	8.6	7.6	6.6	5.3	3.4		
		40		12.4	11.8	11.1	10.4	9.7	8.9	8	7	5.8	4	2		
		50	12.7	12.1	11.4	10.7	10	9.3	8.4	7.5	6.4	4.9	3			
		60	12.3	11.7	11	10.3	9.7	8.8	7.9	6.9	5.7	3.8				
Shut-off PSI			243	226	208	191	174	157	139	122	105	87	70	53	35	18

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			520	580	640	700	760	820	880	940	1000	1060	1120	1180	1240	1300
10ESS - 48STG	5	0			12.7	12.1	11.6	11	10.4	9.8	9.1	8.3	7.4	6.5	5	3
		20			12.3	11.7	11.2	10.6	10.1	9.4	8.5	7.6	6.7	5.5	3.6	
		30		12.5	12.1	11.5	10.9	10.3	9.8	9.1	8.2	7.3	6.3	4.8	2.6	
		40		12.3	11.8	11.3	10.7	10.3	9.4	8.7	7.8	6.9	5.8	4		
		50	12.7	12.2	11.6	11.1	10.5	9.8	9.1	8.3	7.5	6.5	5.2	3.2		
		60	12.5	11.8	11.4	10.8	10.2	9.7	8.8	8	7.1	6.1	4.4	2		
Shut-off PSI			359	333	307	281	255	229	203	177	151	125	99	73	47	21

MODEL 18ESS

SIMFLO®

PERFORMANCE CURVES



MODEL 18ESS

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			0	20	40	60	80	100	110	120	130	140
18ESS - 5STG	1/2	0					18.7	15.4	13.4	11.2	7	3.1
		20			17.9	15.2	8.7					
		30		17.5	14.6	7						
		40	17.1	13.7	5.9							
		50	13.2	4.8								
		60	4									
Shut-off PSI			65	57	48	39	31	22	18	13	9	5

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			20	40	60	80	100	120	140	160	180	200
18ESS - 7STG	3/4	0						19.5	17	14.2	10.7	4
		20				18.7	16.7	13.8	8.3	2.2		
		30			18.3	16.5	13	7.4	1.5			
		40	20	18	16	12.2	6.2					
		50	17.6	15.6	11.6	5.4						
		60	14.4	11.2	4.7							
Shut-off PSI			85	76	68	59	50	42	33	24	16	7

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			80	100	120	140	160	180	200	220	240	260
18ESS - 9STG	1	0					18.7	17.2	15.5	12.2	8.2	2.8
		20				16.8	14.8	11.2	6.7	1.8		
		30			16.5	14.4	10.9	6				
		40		16.3	13.7	9.8	4.5					
		50	16	13.4	9.4	4						
		60	13	9	3.6							
Shut-off PSI			85	76	67	59	50	41	33	24	15	7

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			160	180	200	220	240	260	280	300	340	380
18ESS - 13STG	1 1/2	0					18.3	17.4	16.2	14.6	9.8	3.5
		20		19.2	18.1	17	15.7	13.9	11.7	8.9	2.8	
		30	19	18	16.2	15.7	13.5	11.5	8.4	5.2		
		40	17.8	16.6	15.2	13.3	10.7	7.9	4.7			
		50	16.4	15	13.1	10.4	7.5	4.3				
		60	14.9	13	10.2	7.2	3.8					
Shut-off PSI			104	95	87	78	69	61	52	43	26	9

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			220	240	260	280	300	320	340	380	420	460	500
18ESS - 17STG	2	0					18.8	17.8	16.7	14.2	11.4	7.9	2.7
		20			18.8	17.9	17.2	15.9	14.5	10.6	5.8		
		30		18.6	17.8	16.8	15.7	14.6	12.2	7.9	3.4		
		40	18.2	17.6	16.6	15.4	13.83	11.8	9.6	5.4			
		50	17.6	16.6	15.3	13.7	11.8	9.4	7.2	2.7			
		60	16.6	15.3	13.6	11.5	9.2	6.8	5				
Shut-off PSI			129	121	112	103	95	86	77	60	43	25	8

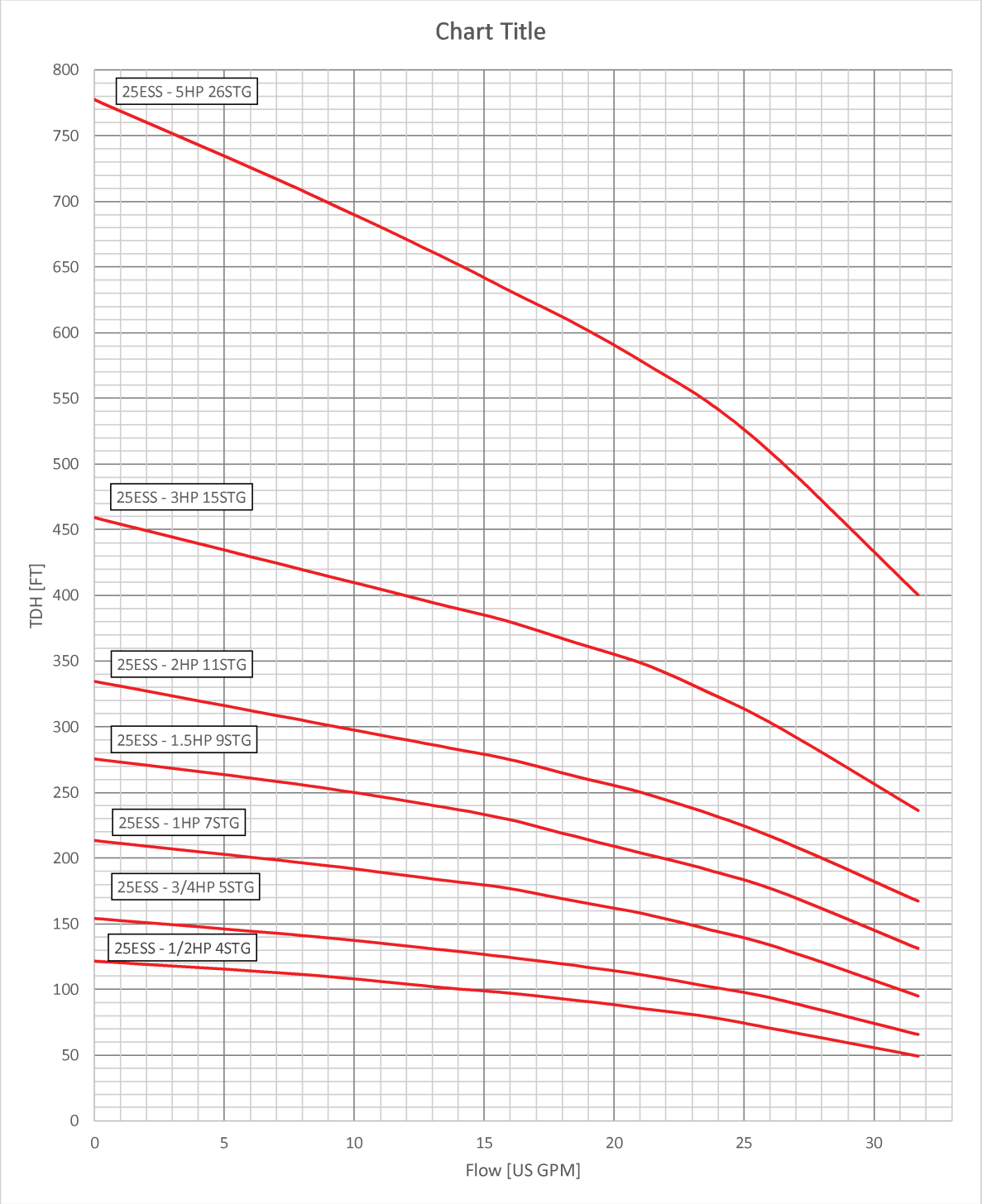
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]										
			300	320	340	380	420	460	500	540	580	620	660
18ESS - 23STG	3	0					18.5	17.2	15.5	13	10.5	6.8	3
		20				182	17.1	15.1	12.8	9.8	5.8	4.8	
		30			18.8	17.8	15.9	14	11.1	7.6	3.8		
		40	19.2	18.8	18	16.6	14.6	12.8	8.9	5.3			
		50	18.3	17.9	17.3	15.8	13.4	11.6	6.7	3.4			
		60	17.4	17.2	16.3	14.5	12.2	10.1	5.2				
Shut-off PSI			173	164	155	138	121	103	86	69	51	34	17

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040
18ESS - 36STG	5	0					19	18.2	17.2	15.8	14.8	13.2	11.5	9.4	7.2	5.2	3.2
		20				18.5	17.9	17	15.9	14.4	12.8	11.6	9.8	7.5	5		
		30			19.2	17.9	17.2	16.3	15.2	13.7	11.9	9.8	8.8	6.4	3.7		
		40			18.6	17.3	16.6	15.6	14.5	12.9	10.8	8.6	7.8	5.2			
		50		19.1	18.2	16.7	15.9	14.9	13.8	12.1	9.5	7.4	6.7	3.8			
		60	19.2	18.7	17.8	16	15.5	14.2	13	11.2	8.4	6.2	5.4				
Shut-off PSI			271	254	236	219	202	184	167	150	132	115	98	80	63	46	28

MODEL 25ESS

SIMFLO®

PERFORMANCE CURVES



MODEL 25ESS

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100		
25ESS - 4STG	1/2	0			27.8	23.2	14.3		
		20	27	20.5	10.5				
		30	19.7	9.5					
		40	6.5						
Shut-off PSI			44	35	27	18	9		

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]						
			20	40	60	80	100	120	140
25ESS - 5STG	3/4	0				28.8	24.3	17.5	8.8
		20		27.5	22	14.3	5		
		30	27	21.8	14				
		40	20	12					
		50	11						
Shut-off PSI			58	49	41	32	23	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]									
			20	40	60	80	100	120	140	160	180	200
25ESS - 7STG	1	0						27	25	20.5	14.8	6.3
		20			30	26.3	23.5	18.7	12.5			
		30		29.8	27	23	17.8	11				
		40	29.2	26	22.5	17	9					
		50	25.5	21.5	16.5	8.5						
		60	21	16	7							
Shut-off PSI			84	75	66	58	49	40	32	23	14	6

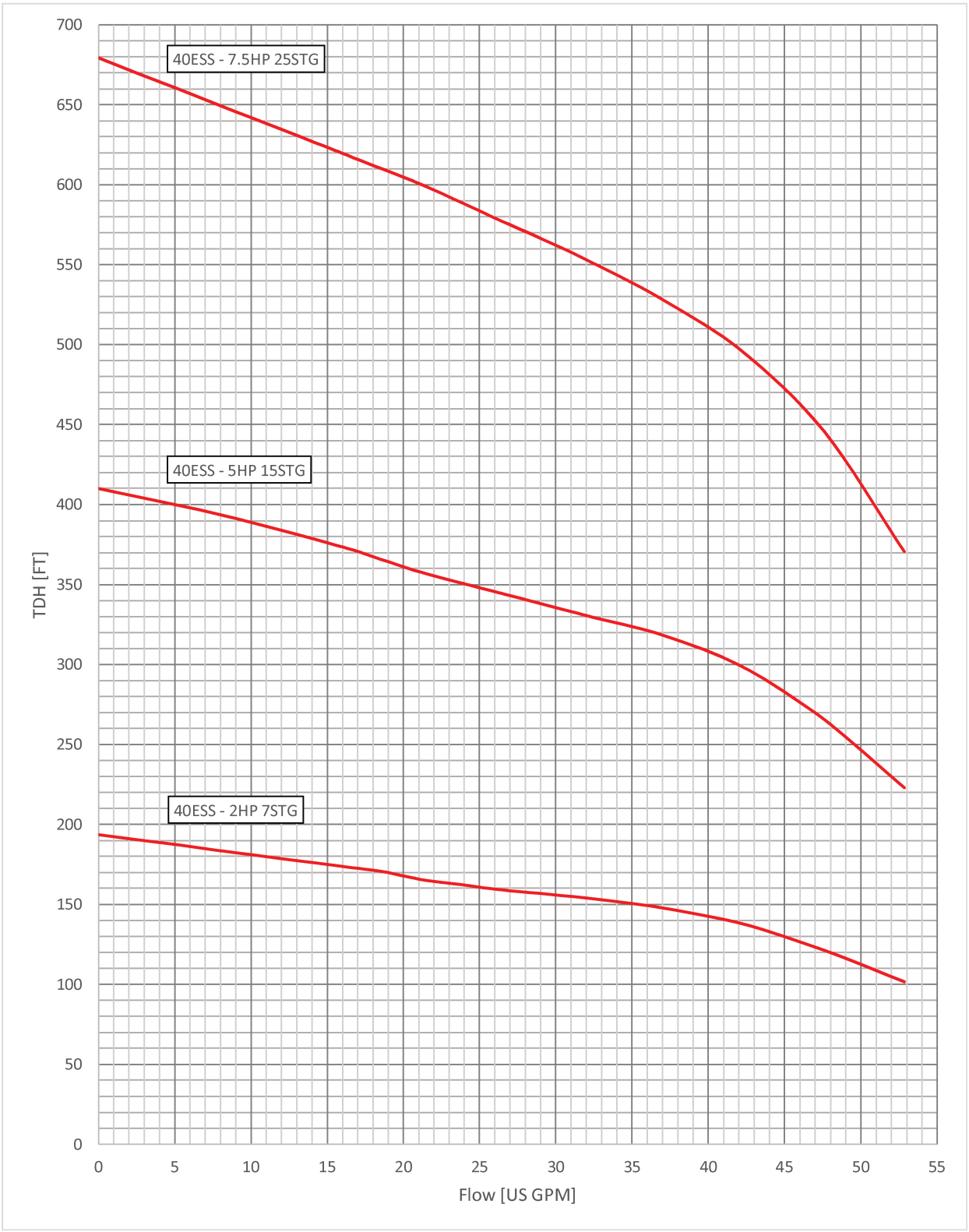
Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]												
			20	40	60	80	100	120	140	160	180	200	220	240	260
25ESS - 9STG	1 1/2	0								27.1	25.5	22	17.7	13	6.5
		20						27.5	24.3	20.5	16.5	11			
		30				29.5	27.3	24.3	20.5	16.2	10.5				
		40			29	26.5	22.5	19	15	9					
		50		28.5	26.3	23	17.5	14.5							
		60	28.6	26	22.5	17.5	14	7.5							
Shut-off PSI			111	102	93	85	76	67	59	50	41	33	24	15	7

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]												
			80	100	120	140	160	180	200	220	240	260	280	300	320
25ESS - 11STG	2	0						30.2	28	26.5	22.7	19	14.5	9.3	4
		20				29.5	27.2	24.6	21.8	18	13	7.5			
		30			29.2	27.2	24.5	21.5	17.5	12.5	7				
		40		28.8	26.5	23.5	18.5	16.5	10.5	5.5					
		50	27.5	26	23.5	18	16	10.5	5						
		60	26	21.4	19.5	15.5	10	4.8							
Shut-off PSI			110	102	93	84	76	67	58	50	41	32	24	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			120	140	160	180	200	220	240	260	280	300	320	340	380	420
25ESS - 15STG	3	0								29.6	28	26.2	24.3	22	16	8
		20						27.5	27.5	25.6	23.5	21.5	18	14.5	6.5	
		30					29	26.5	25.5	23.3	21	18	14.2	10.2		
		40				28.6	27	25	23	20.8	17	13.6	9.3	5.6		
		50		30	28.5	26.6	24.6	22.5	20	16.5	13	8.8	5			
		60	29.8	28.1	26.2	24.4	21	19.2	16.4	12.3	8.5	4.3				
Shut-off PSI			147	138	130	121	112	104	95	86	78	69	60	52	34	17

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]															
			300	320	340	360	380	400	420	440	460	480	520	560	600	640	680	720
25ESS - 26STG	5	0								29.6	28.6	27.5	25.3	22.5	19.2	15	11	6.5
		20						29.3	28.4	27.5	26.3	25	22	18.5	14.5	10.5	5.8	
		30				30.5	29.4	28.3	27.3	26.1	25	23.5	20.2	16.3	12.3	8		
		40			30	29	28	26.7	25.8	24.6	23	21.6	17.8	14	9.8	5		
		50		29.6	28.6	27.6	26.5	26.5	24.5	23	21.3	19.5	15.5	11.5	7.4			
		60	29.8	28.8	27.6	26.6	25.4	23.5	22.8	21.3	19.2	17.5	22.7	9.2				
Shut-off PSI			207	198	189	181	172	163	155	146	137	129	111	94	77	60	42	25

PERFORMANCE CURVES



MODEL 40ESS

SIMFLO

SECTIONAL CHART

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]								
			20	40	60	80	100	120	140	160	180
40ESS - 7STG	2	0						48	41.5	26	11
		20				46	38	21	5		
		30			45	36	19.5				
		40	50	43.5	33	16					
		50	43	31	15						
		60	27	13							
Shut-off PSI			75	66	58	49	41	32	23	15	6

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]												
			120	140	160	180	200	220	240	260	280	300	320	340	360	400
40ESS - 15STG	5	0							50.7	48.2	45.5	41.8	36.2	28	20	5
		20					50	48	44.2	40.5	34	25.3	15	11		
		30				50	47.2	42	40	33	25	18	10.2			
		40			49	47	43.5	39	31	41.5	16	8				
		50		49	46	43	38	30	22	15	7.5					
		60	48.5	46	43	37	29.5	21	14.5	6						
Shut-off PSI			126	117	108	100	91	82	74	65	56	48	39	30	22	4

Pump Model	HP	PSI	Depth to Pumping Water Level [FT]/ Flow [GPM]													
			280	300	320	340	360	380	400	420	460	500	540	580	620	660
40ESS - 25STG	7 1/2	0								49.5	46.2	41.5	34.6	25.8	15.8	5
		20						49	47.5	45.5	40.5	33.5	24.3	14		
		30					49	48	45.6	43.5	37	28.5	19	8.2		
		40			50	49	46	45	42.7	39.5	32	21.8	12.5			
		50		49.5	49	47	44.5	43	39.1	35.5	26.6	17	6.5			
		60	49.6	48.2	46	45	42	39	35	28.5	21.8	11.4				
Shut-off PSI			173	164	155	147	138	129	121	112	95	78	60	43	26	8