

CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

- The curves refer to effective speed of 3500 rpm for 2-pole asynchronous motors at 60 Hz.
- Measurements were carried out with clean water at 68 °F of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)
- The NPSH curve is an average curve obtained under the same conditions as the performance curves.
- The recommended operating range for best efficiency is indicated by the continuous portion of each curve.

Symbols explanation:

Q = volume flow rate

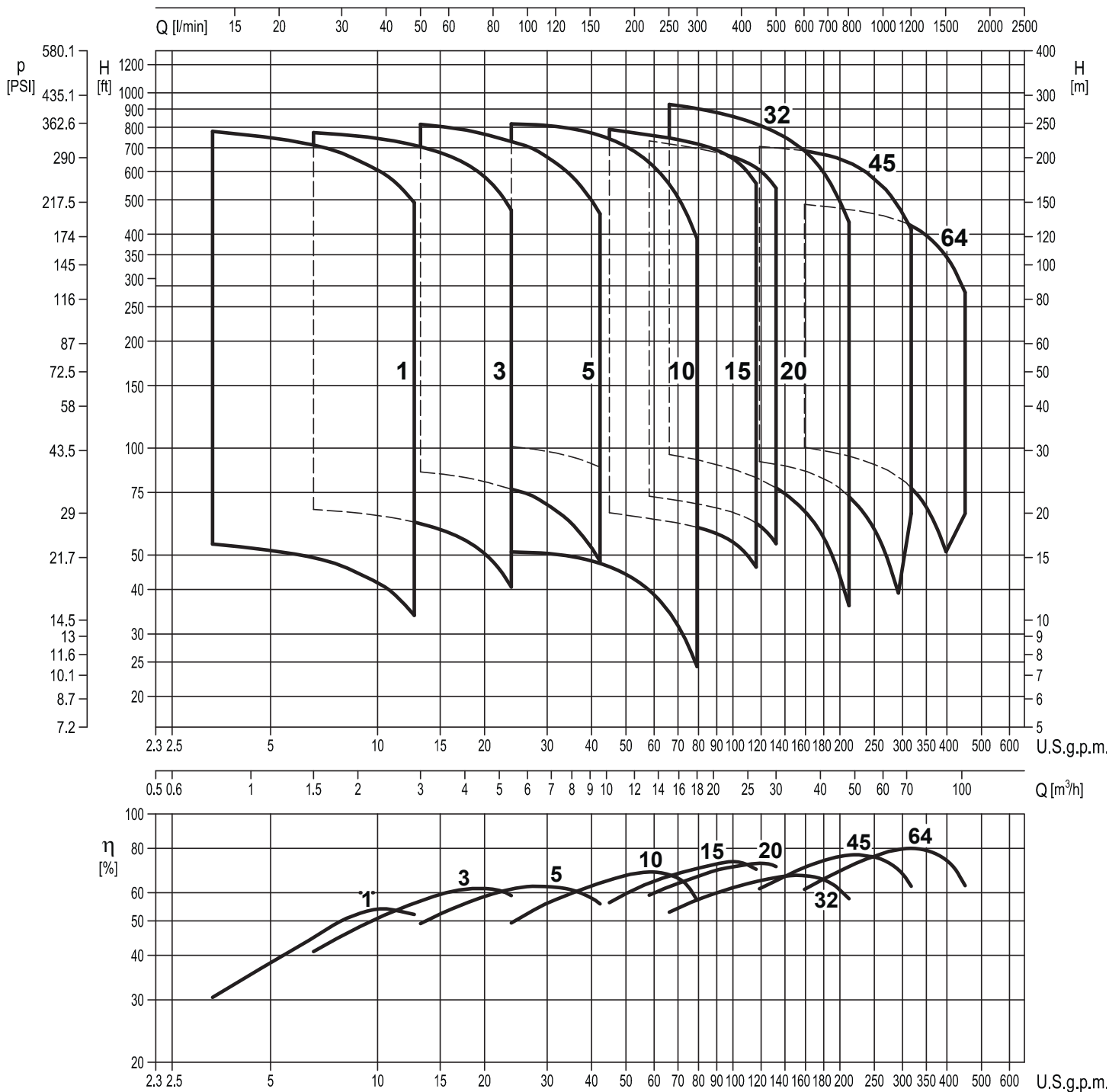
H = total dynamic head (TDH)

P2 = pump power input (shaft power)

η = pump efficiency

NPSH = net positive suction head required by the pump

PERFORMANCE RANGE



SELECTION CHART EVMSU(L)10-15-20

Pump Type	Motor			Maximum working pressure (PSI)	Q=Capacity																			
	KW	HP	Frame Size		gpm	0	7.9	10.6	13.2	19.8	23.8	26.4	31.7	42.3	44.9	52.8	58.1	66.1	79.3	92.5	105.7	116.2	132.1	
					m ³ /h	0	1.8	2.4	3.0	4.5	5.4	6.0	7.2	9.6	10.2	12.0	13.2	15	18	21	24	26.4	30	
					H=Total manometric head in feet																			
10	Three phase				52.5	52.5	52.5	52.1	51.3	51.2	50.9	50.2	47.2	46.3	42.7	39.7	34.9	24.3	-	-	-	-	-	-
	EVMSU(L)10 1	0.75	1	56C	105	105.0	104.7	104.2	102.5	102	101.8	100.7	94.8	92.5	85.6	79.7	69.2	48.6	-	-	-	-	-	-
	EVMSU(L)10 2	1.5	2	56C	157.5	157.5	155.8	155.8	154.2	152.6	152.7	150.9	142.1	139.1	128.3	119.4	104	72.8	-	-	-	-	-	-
	EVMSU(L)10 3	2.2	3	182TC	210.0	210.0	210.0	208.5	205.1	203.4	203.4	201.8	190.3	185.4	170.6	159.1	137.8	97.1	-	-	-	-	-	-
	EVMSU(L)10 4	3.7	5	184TC	262.5	262.5	260.8	260.8	255.9	254.3	254.3	251	236.2	231.3	213.3	198.5	172.2	121.4	-	-	-	-	-	-
	EVMSU(L)10 5	3.7	5	184TC	315	315.0	313.3	313.3	308.4	306.8	305.1	301.8	283.8	277.2	255.9	239.5	208.3	146	-	-	-	-	-	-
	EVMSU(L)10 6	3.7	5	184TC	367.5	367	364.2	364.2	357.6	357.3	357.6	352.0	331.4	324.8	298.6	278.9	242.8	170.6	-	-	-	-	-	-
	EVMSU(L)10 7	5.5	7.5	184TC	419.9	419.9	419.9	416.7	410.1	408.5	406.8	402.2	377.4	370.7	341.9	318.6	277.2	193.6	-	-	-	-	-	-
	EVMSU(L)10 8	5.5	7.5	184TC	472.4	472.4	472.4	469	462.6	459.3	459.3	452.4	426.2	417	384.8	358.3	311.7	218.2	-	-	-	-	-	-
	EVMSU(L)10 9	5.5	7.5	184TC	524.9	524.9	521.7	521.7	511.8	510.5	508.5	503	473.4	463.3	427.5	398.3	346.5	242.8	-	-	-	-	-	-
	EVMSU(L)10 10	7.5	10	213TC	577.4	577.4	574.1	574.1	564.3	561.7	561	553.1	520.7	509.8	470.1	438	381.2	267.4	-	-	-	-	-	-
	EVMSU(L)10 11	7.5	10	213TC	629.9	630	626.6	626.6	616.8	612.5	610.2	603.3	567.9	556.1	512.8	478	415.7	292	-	-	-	-	-	-
EVMSU(L)10 12	7.5	10	213TC	734.9	735	731.6	728.3	718.5	714.6	711.9	704.1	662.7	648.6	598.4	557.4	484.9	339.9	-	-	-	-	-	-	
EVMSU(L)10 14	11	15	215TC	787.4	787.4	784.1	780.8	767.7	765.7	764.4	754.3	710	717.8	641.1	597.4	519.7	364.2	-	-	-	-	-	-	
EVMSU(L)10 15	11	15	215TC	839.9	840	836.6	833.3	820.3	816.9	813.6	804.5	757.2	741.5	683.7	637.1	554.1	388.5	-	-	-	-	-	-	
EVMSU(L)10 16	11	15	215TC																					
15	EVMSU(L)15 1	1.5	2	56C	71.2	-	-	-	68.2	67.6	67.3	65.9	63.3	62.7	60.4	59.1	57.1	51.8	46.6	39.7	32.5	-	-	
	EVMSU(L)15 2	3.7	5	184TC	143.1	-	-	-	137.8	137.8	137.8	136	132.7	131.7	128.4	126.7	124.3	119.7	113.8	104	92.6	-	-	
	EVMSU(L)15 3	5.5	7.5	184TC	214.6	-	-	-	208.3	206.7	206.7	203.4	198.5	197.5	191.9	190	187	178.8	170.3	155.8	139.4	-	-	
	EVMSU(L)15 4	7.5	10	215TC	286.1	-	-	-	277.2	275.6	274.1	272.3	265.7	264.1	257.5	255.6	248.7	239.4	227.1	208.3	185.2	-	-	
	EVMSU(L)15 5	7.5	10	215TC	357.6	-	-	-	347.8	344.5	341.2	341.2	331.4	329.3	321	316.7	310.9	299.3	283.9	260.8	231.3	-	-	
	EVMSU(L)15 6	11	15	215TC	429.2	-	-	-	416.7	413.4	410.1	406.8	397	395.1	385.2	380.0	373.1	359.1	340.7	313.3	277.2	-	-	
	EVMSU(L)15 7	11	15	215TC	500.7	-	-	-	485.6	482.3	479	475.7	465.9	461	449.5	443.4	435.2	419	397.4	364.7	324.2	-	-	
	EVMSU(L)15 8	15	20	256TC	572.2	-	-	-	554.3	551.2	547.9	544.6	531.5	526.8	513.6	506.7	497.4	478.8	454.2	416.1	370.5	-	-	
	EVMSU(L)15 9	15	20	256TC	643.8	-	-	-	623.4	620.1	616.7	613.5	597.1	592.7	577.9	570	559.6	538.7	511	468.2	416.8	-	-	
	EVMSU(L)15 10	15	20	256TC	715.3	-	-	-	692.3	689	685.7	679.1	662.7	658.5	642.1	633.4	621.8	598.6	567.7	521	463.1	-	-	
	EVMSU(L)15 11	18.5	25	284TSC	786.8	-	-	-	761.2	757.9	754.6	747.9	731.6	724.4	706.3	696.8	683.9	658.4	624.5	573.1	509.4	-	-	
	EVMSU(L)15 12	18.5	25	284TSC	858.4	-	-	-	830.1	826.8	823.5	816.9	797.2	790.2	770.5	760.1	746.1	718.3	681.3	624.3	555.6	-	-	
20	EVMSU(L)20 1	2.2	3	182TC	91.9	-	-	-	-	-	-	85.6	84.0	81.0	80.4	77.8	76.1	73.5	68.6	62.0	54.8	48.2	34.8	
	EVMSU(L)20 2	3.7	5	184TC	162.4	-	-	-	-	-	-	155.8	152.6	149.3	149.2	146	146	144.4	139.4	134.5	129.3	123	107.7	
	EVMSU(L)20 3	5.5	7.5	184TC	242.8	-	-	-	-	-	-	232.9	229.7	224.8	223.1	219.8	219.8	214.9	210	201.8	193.6	183.7	160.8	
	EVMSU(L)20 4	7.5	10	215TC	324.8	-	-	-	-	-	-	311.7	306.8	300.2	298.4	295.3	293.6	287.1	278.9	269	259.2	246.1	214.9	
	EVMSU(L)20 5	11	15	215TC	406.8	-	-	-	-	-	-	390.4	383.9	374	374	367.5	367.5	360.9	347.8	337.9	323.2	306.8	269	
	EVMSU(L)20 6	11	15	215TC	485.6	-	-	-	-	-	-	465.9	459.3	449.6	446.2	442.9	439.6	429.8	419.9	403.5	387.1	367.5	323.2	
	EVMSU(L)20 7	15	20	256TC	567.6	-	-	-	-	-	-	544.6	538.1	524.9	521.7	515.1	511.8	502	488.8	472.4	452.8	429.8	377.3	
	EVMSU(L)20 8	15	20	256TC	649.6	-	-	-	-	-	-	623.4	613.5	600.4	597.1	587.3	587.3	574.1	557.7	538.1	518.4	492.1	429.8	
	EVMSU(L)20 9	18.5	25	284TSC	731.6	-	-	-	-	-	-	698.8	689	675.9	672.6	662.7	659.4	646.3	626.6	607	580.7	554.5	485.6	
	EVMSU(L)20 10	18.5	25	284TSC	810.4	-	-	-	-	-	-	777.5	767.7	748	744.8	734.9	731.6	718.5	698.8	675.9	646.3	613.5	538.1	

Model also available in 143TC/145TC frame

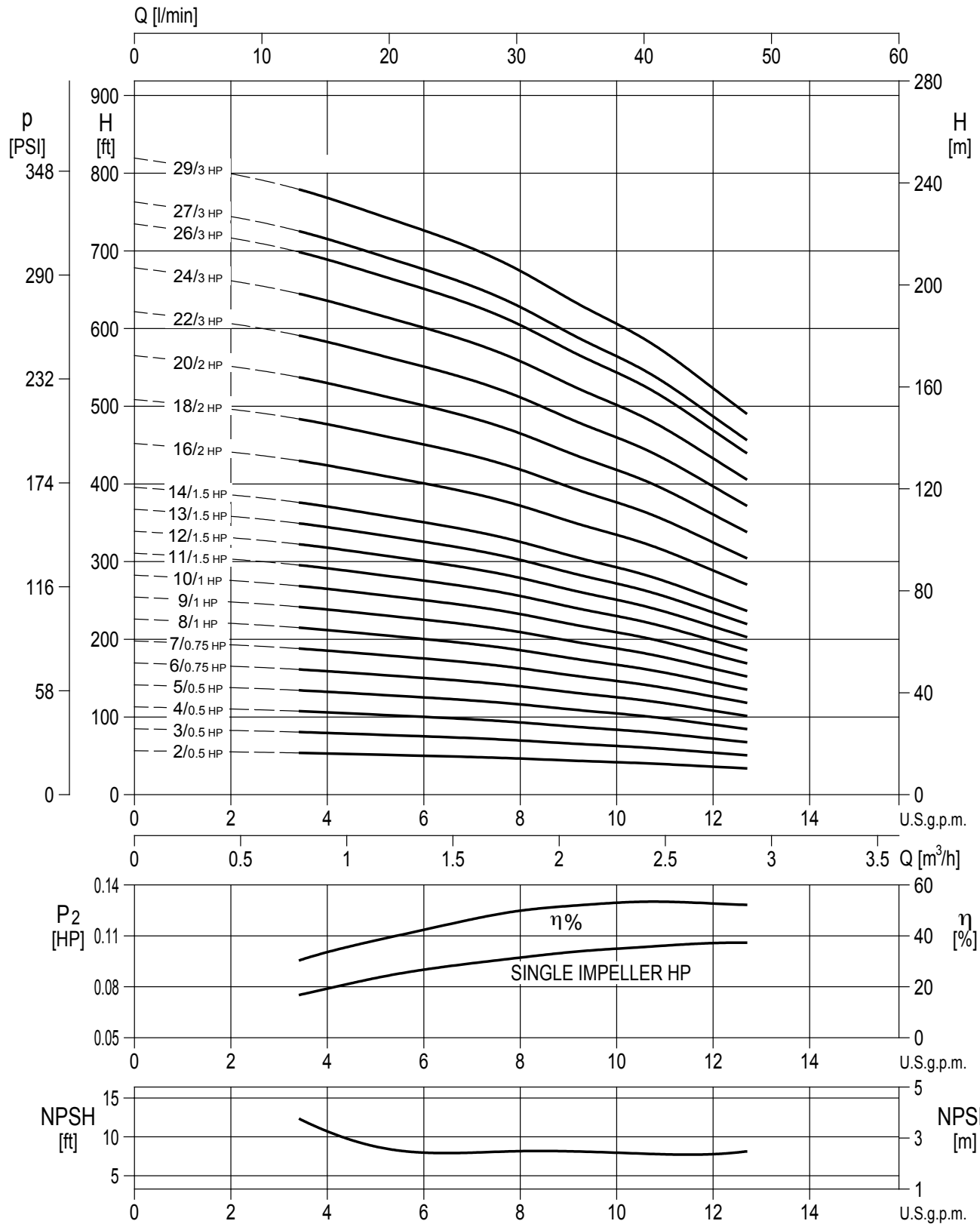
PERFORMANCE CURVES

EVMSU1 1/2HP - 3HP

EVMSU1 2 - EVMSU1 29

Nominal Speed: 3500 RPM

300# ANSI Compatible 1 1/4" 4-Bolt



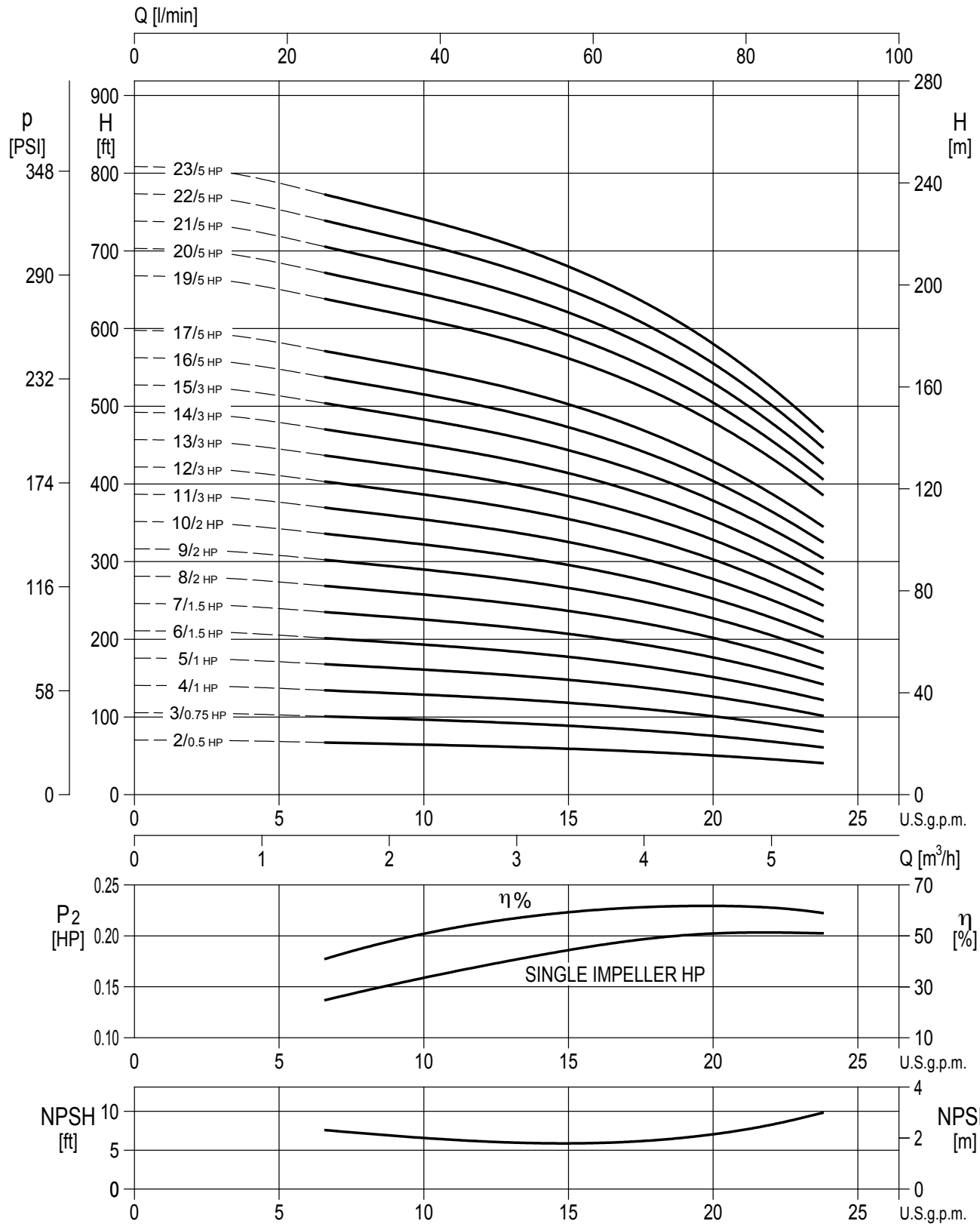
PERFORMANCE CURVES

EVMSU3 1/2HP - 5HP

EVMSU3 2 - EVMSU3 23

Nominal Speed: 3500 RPM

300# ANSI Compatible 1 1/4" 4-Bolt



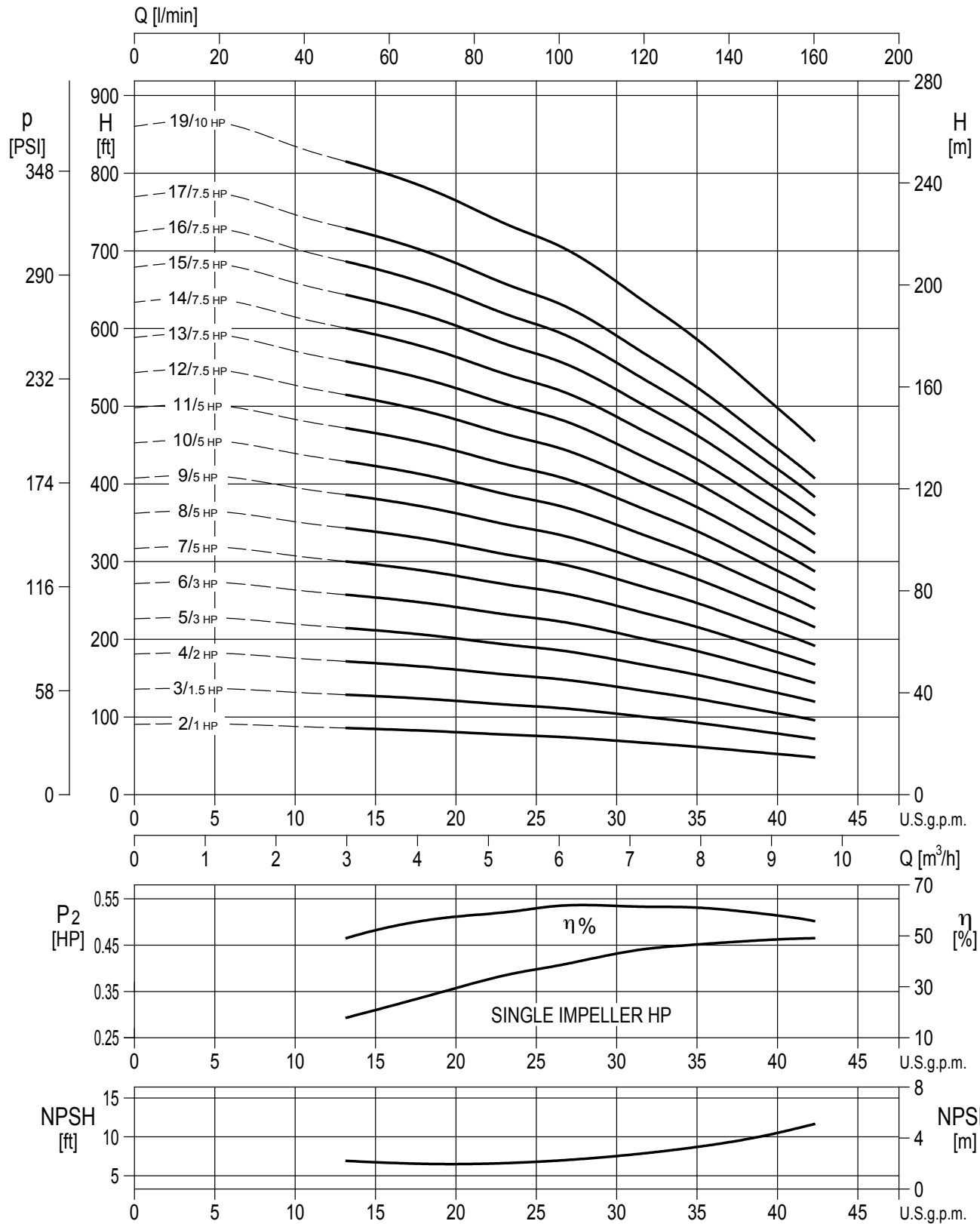
PERFORMANCE CURVES

EVMSU5 1HP - 10HP

EVMSU5 2 - EVMSU5 19

Nominal Speed: 3500 RPM

300# ANSI Compatible 1 1/4" 4-Bolt



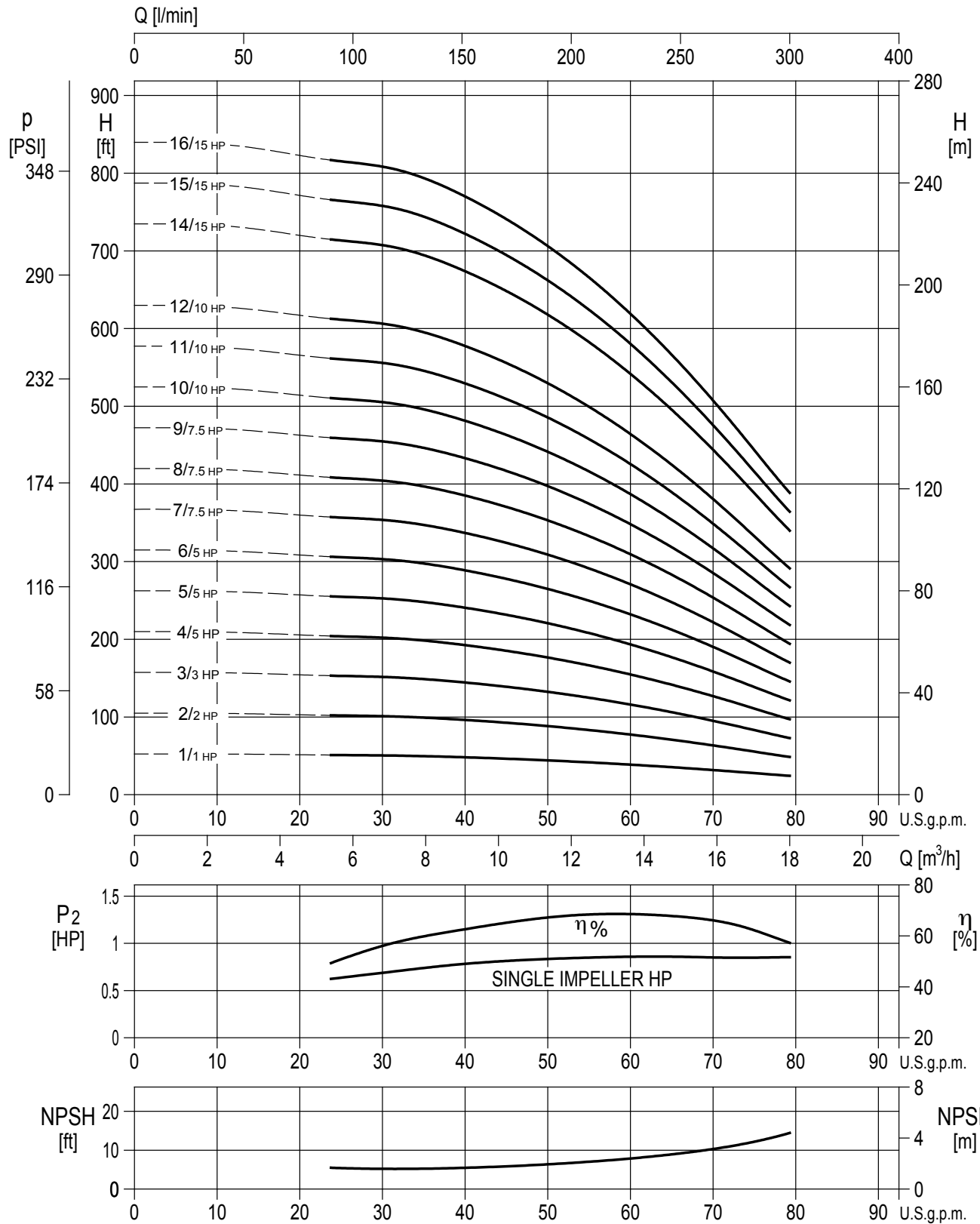
PERFORMANCE CURVES

EVMSU10 1HP - 15HP

EVMSU10 1 - EVMSU10 16

Nominal Speed: 3500 RPM

300# ANSI Compatible 2" 8-Bolt



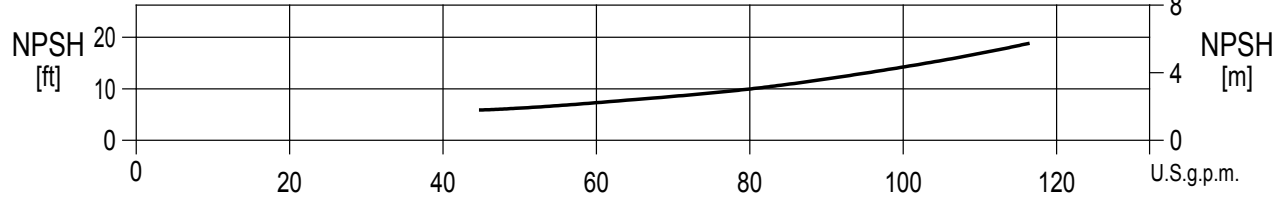
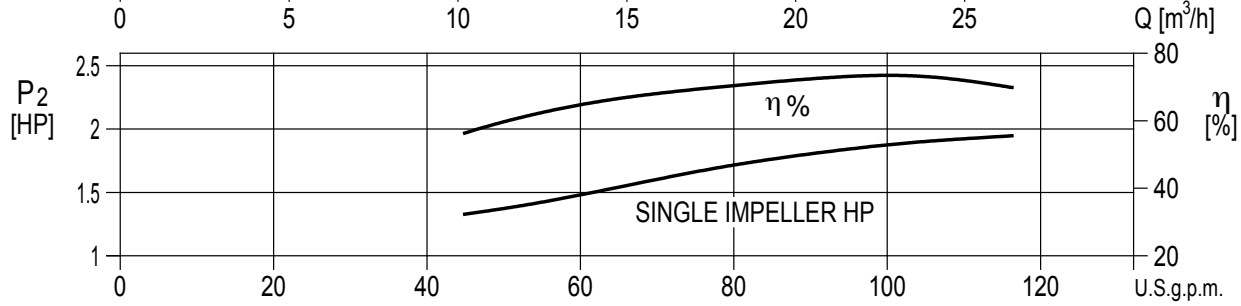
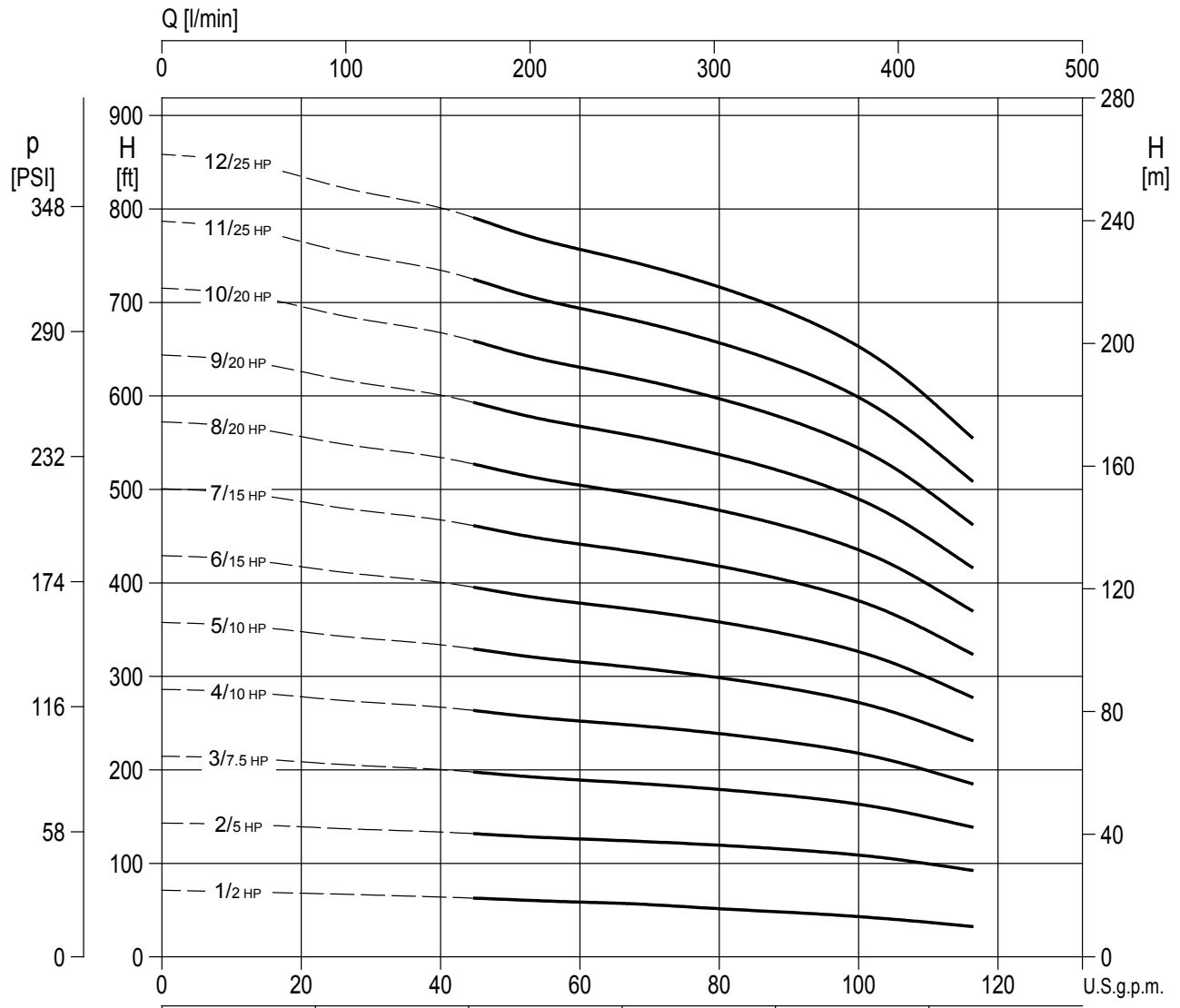
PERFORMANCE CURVES

EVMSU15 2HP - 25HP

EVMSU15 1 - EVMSU15 12

Nominal Speed: 3500 RPM

300# ANSI Compatible 2" 8-Bolt



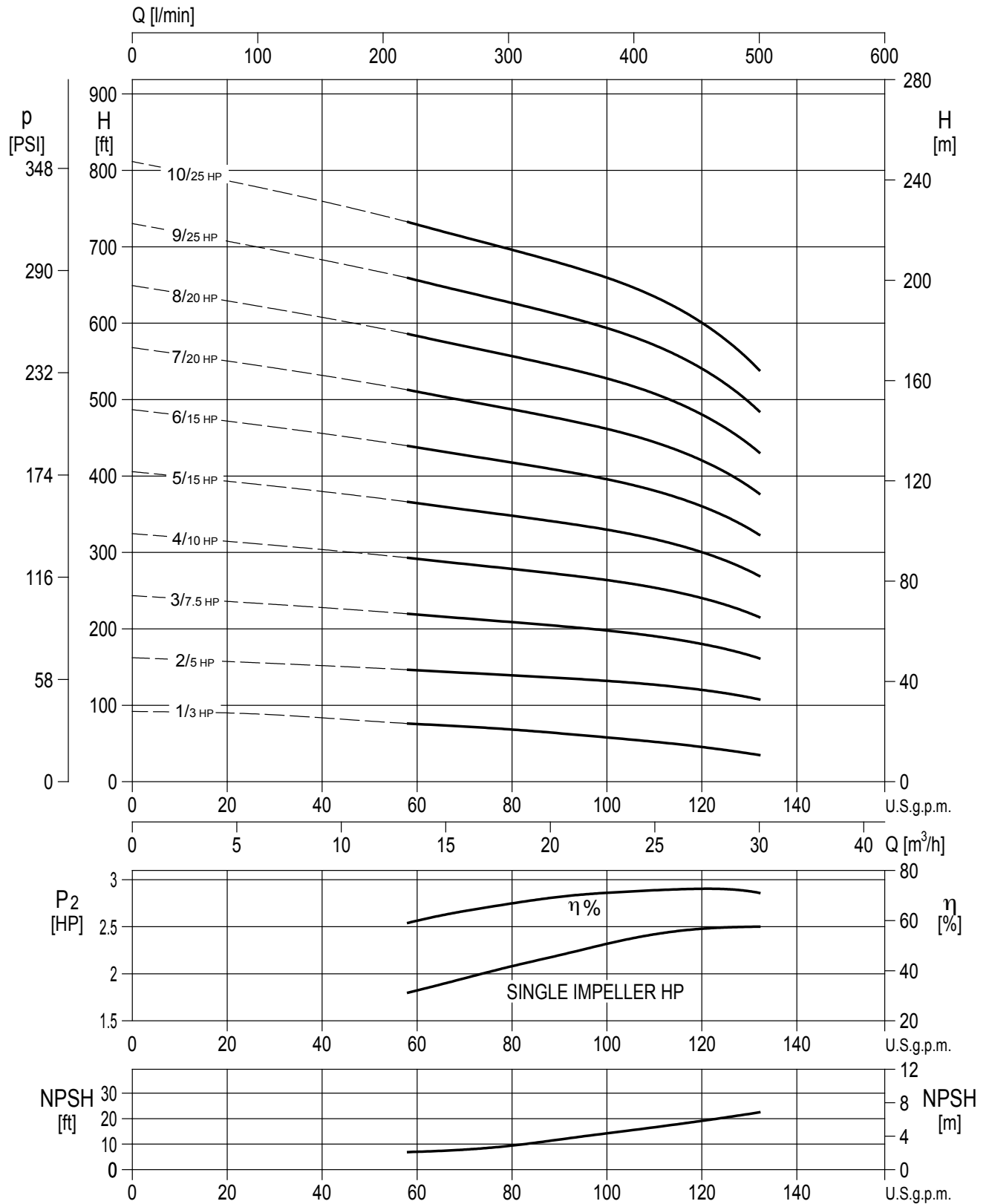
PERFORMANCE CURVES

EVMSU20 3HP - 25HP

EVMSU20 1 - EVMSU20 10

Nominal Speed: 3500 RPM

300# ANSI Compatible 2" 8-Bolt



PERFORMANCE CURVES

EVMU32 5HP - 40HP

EVMU32 1 – EVMU32 4-3

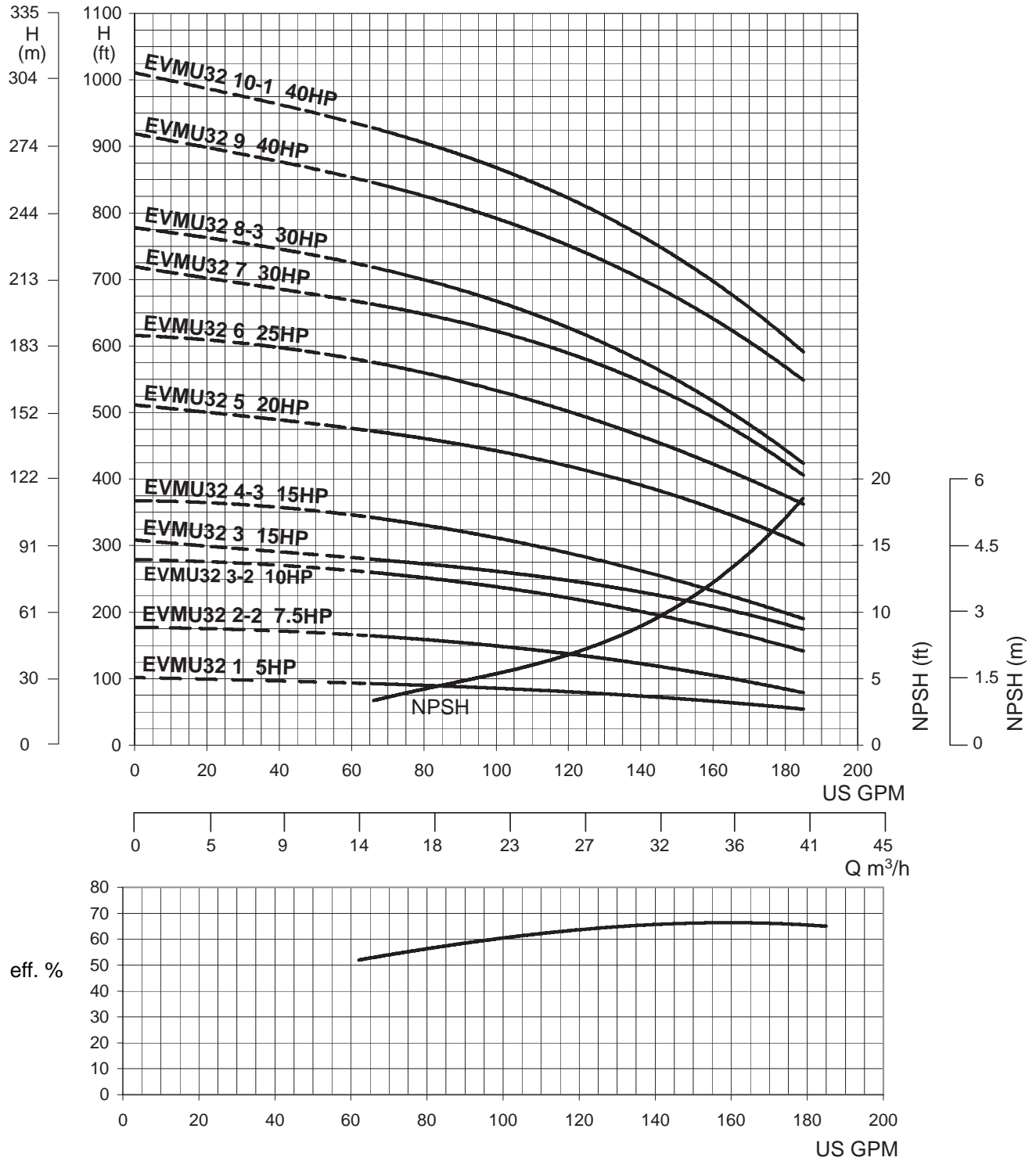
Nominal Speed: 3450 RPM

150# ANSI Compatible 2½" 4-Bolt

EVMU32 5 – EVMU32 10-1

Nominal Speed: 3450 RPM

300# ANSI Compatible 2½" 8-Bolt



Water Temperature: 20° C (68° F)

PERFORMANCE CURVES

EVMU45 7.5HP - 50HP

EVMU45 1-1 – EVMU45 3

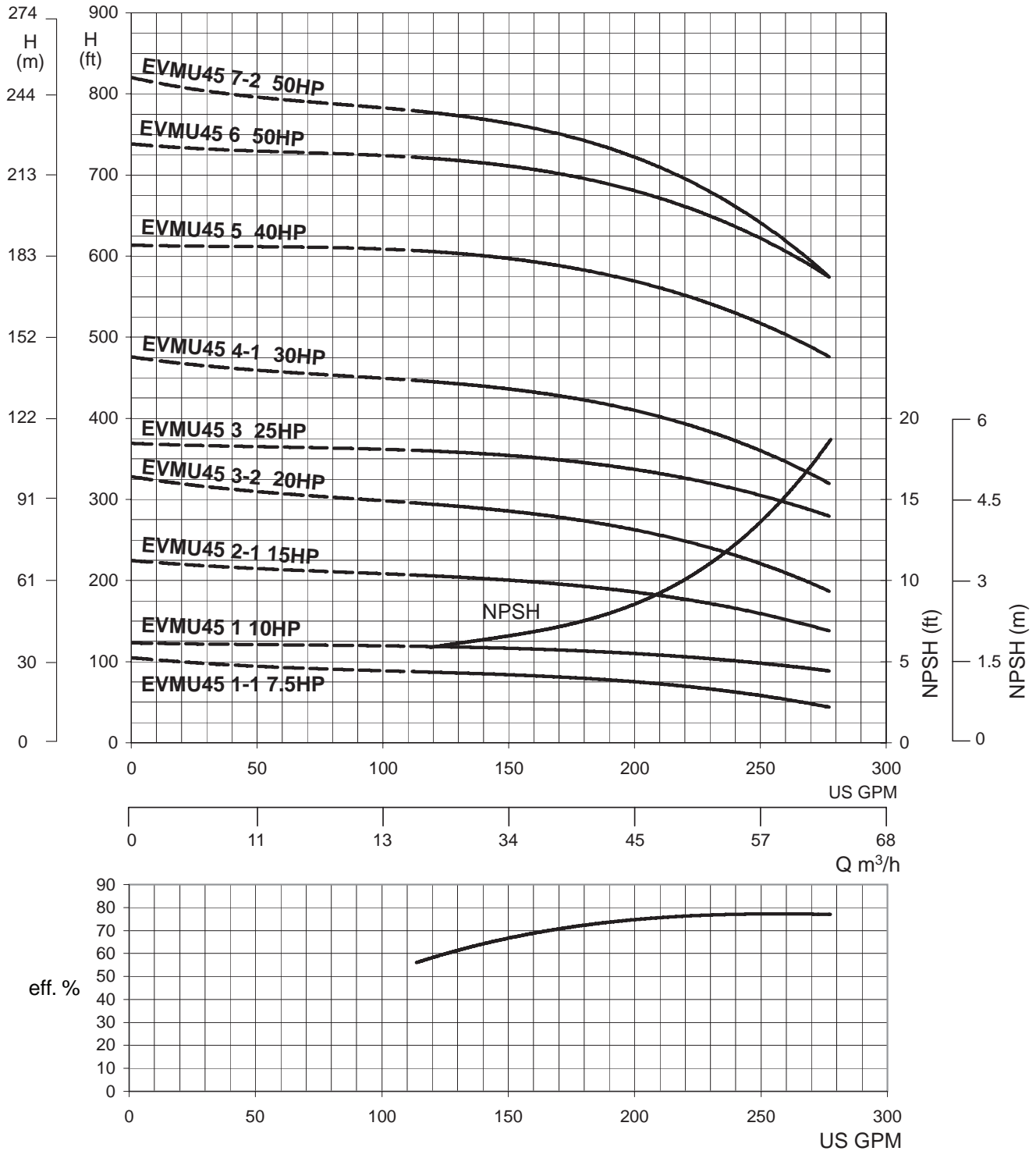
Nominal Speed: 3450 RPM

150# ANSI Compatible 3" 4-Bolt

EVMU45 4-1 – EVMU45 7-2

Nominal Speed: 3450 RPM

300# ANSI Compatible 3" 8-Bolt



Water Temperature: 20° C (68° F)

PERFORMANCE CURVES

EVMU64 10HP - 50HP

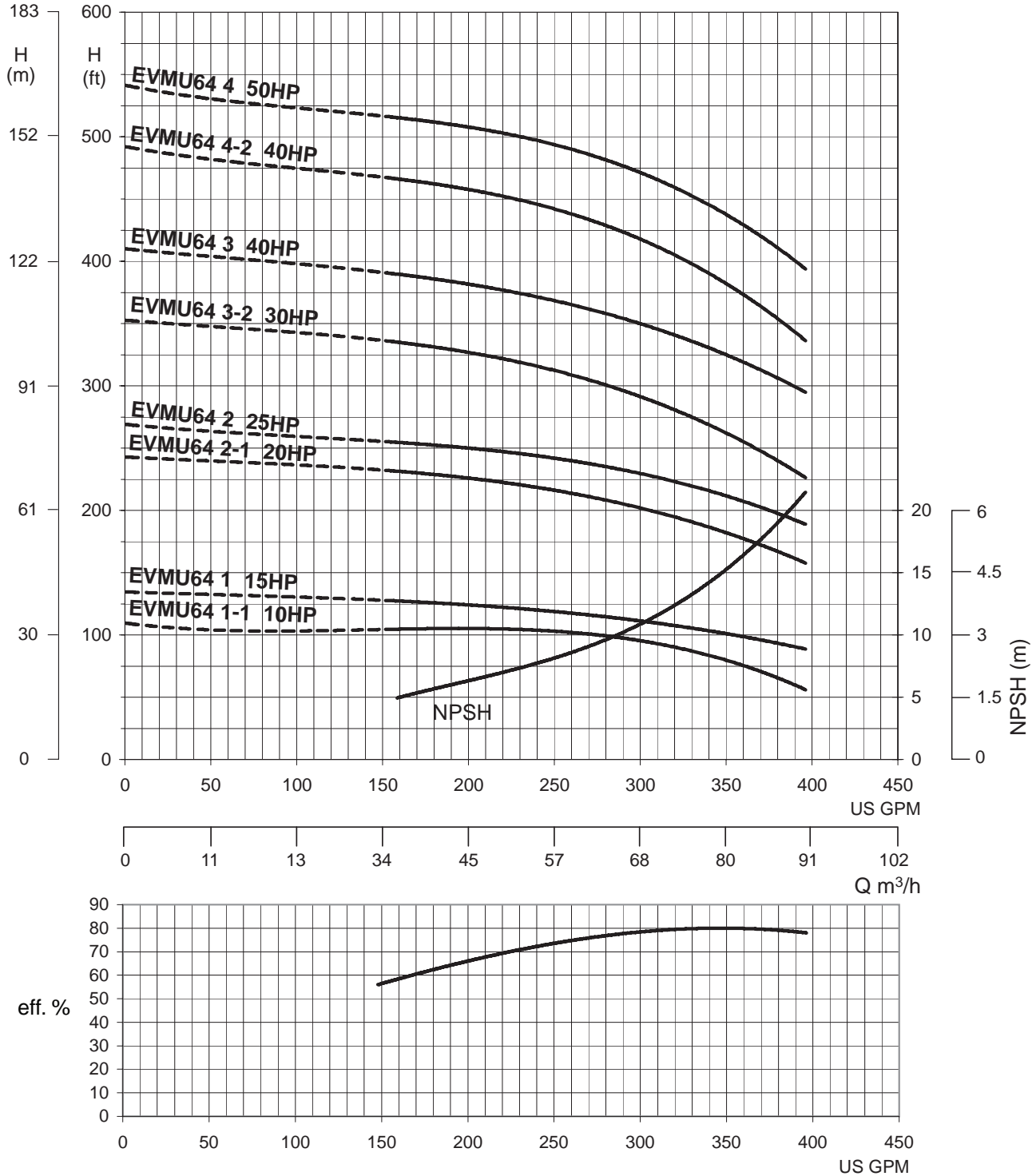
EVMU64 1-1 – EVMU64 3

Nominal Speed: 3450 RPM

150# ANSI Compatible 4" 8-Bolt

EVMU64 4-2

300# ANSI Compatible 4" 8-Bolt



Water Temperature: 20° C (68° F)