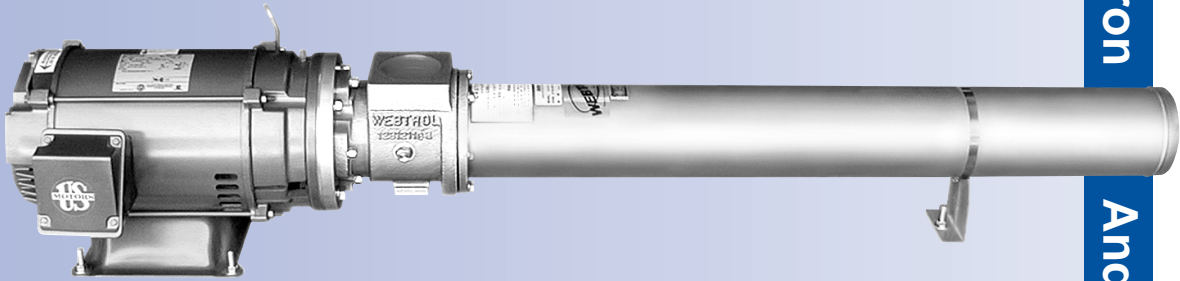


WEBTROL

Quality Pumps



The **Webtrol HT Series** is the original Heavy Duty Booster Pump, designed for high flow at high head. The HT Series Booster Pumps are built to withstand the rigorous demands generated through use in the Reverse Osmosis, Deionization, Car wash, Washdown and Booster Lift Station applications, as well as various other Industrial and Agricultural uses.

The design of the Webtrol HT Series Booster Pumps are virtually maintenance free in comparison to pumps that utilize bearing housings that require oil baths to operate. Ease of installation dependability, performance and reliability are just a few of the reasons you should look at the Webtrol HT Series Booster Pumps.

Every Webtrol Booster Pump is hand assembled and checked during each step of the assembly process up to the final test where each pump is checked for flow, pressure, power consumption, leaks, vibration and noise.

Features And Benefits

- Available in both Stainless Steel and Cast Iron fitted models.
- Heavy duty 7/8" diameter stainless steel shaft with a double keyway.
- High strength, glass filled Noryl impellers precision machined for dimensional stability and efficiency.
- Mechanical seals are stainless steel constructed with Buna N elastomers on cast iron models and Viton elastomers on stainless steel models.

Specifications

Webtrol HT Series Booster Pumps are available from 40 to 100 Gallons Per Minute. Pressures to 750 PSI

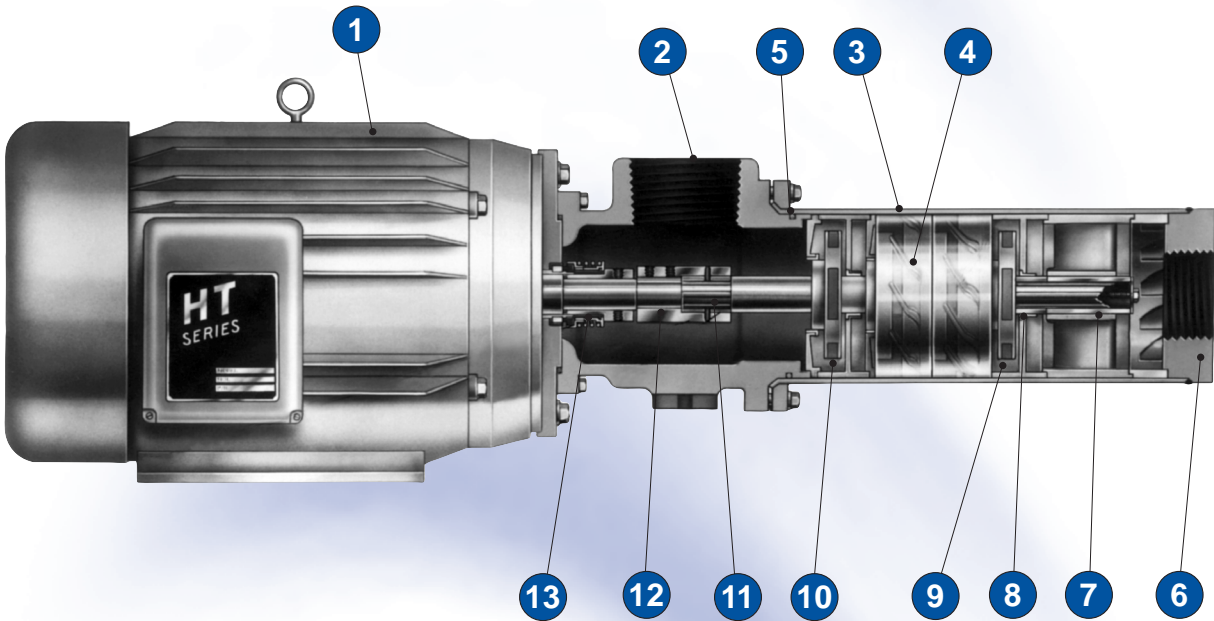
Cast Iron

And Stainless Steel Booster Pumps

HT SERIES BOOSTER PUMPS

HT Series Booster Pump

Construction & Design Features



CONSTRUCTION MATERIALS

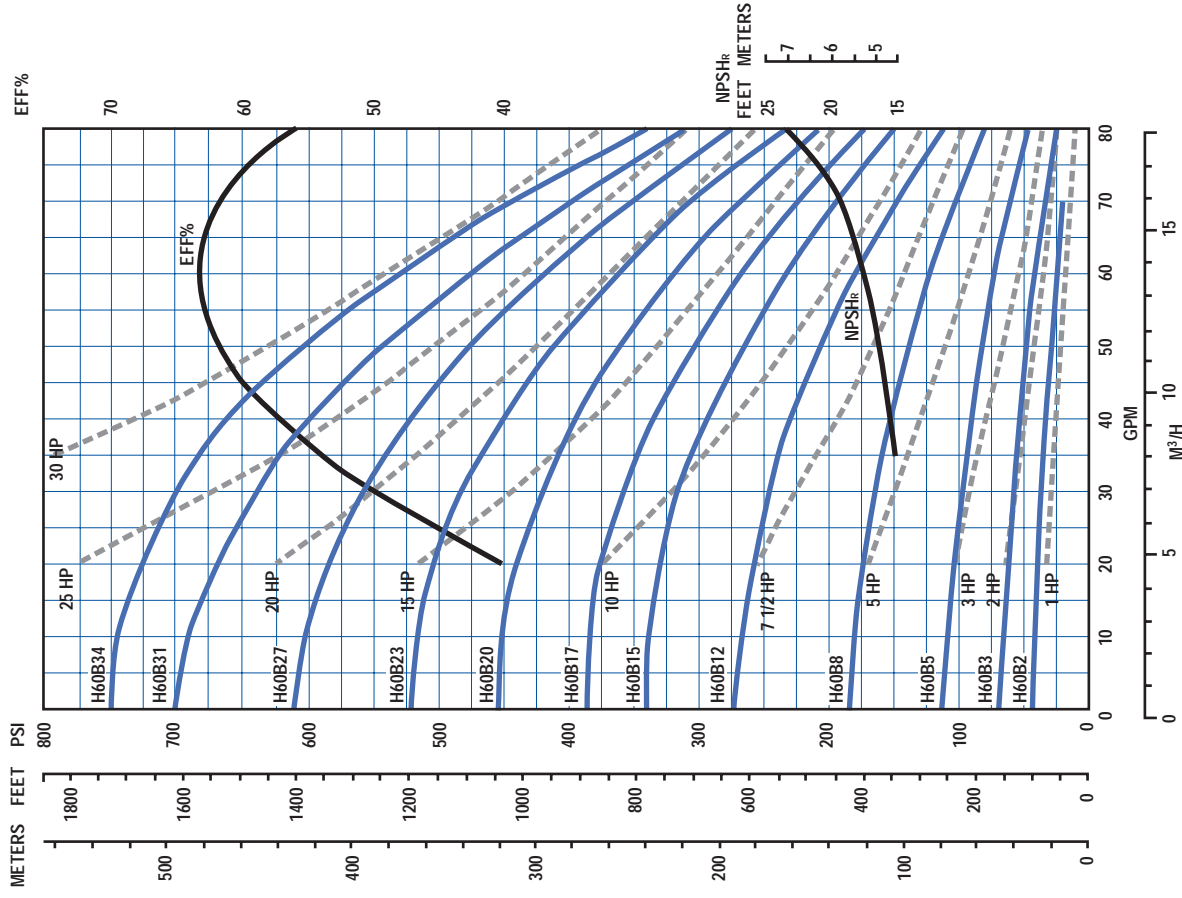
Part	Cast Iron Pump	Stainless Steel Pump
Inlet / Motor Bracket	Cast Iron	Cast 316 SS
Discharge Housing	Steel	316 SS
Pump Housing	304 SS Tubing	316 SS Tubing
Impellers	Noryl	Noryl
Diffusers	Noryl	Noryl
Wear Rings	316 SS	316 SS
Shaft & Coupling	316 SS / 416 SS	316 SS
Shaft Bearing Sleeve	316 SS	316 SS
Shaft Bearing	Bronze	Rulon
Mechanical Seal	Carbon/Ceramic	Carbon/Ceramic
	302 SS, Buna N	316 SS, Viton
Mechanical Seal Spacer	416 SS	316 SS
O-Rings	Buna-N	Viton

HT BOOSTER PUMP

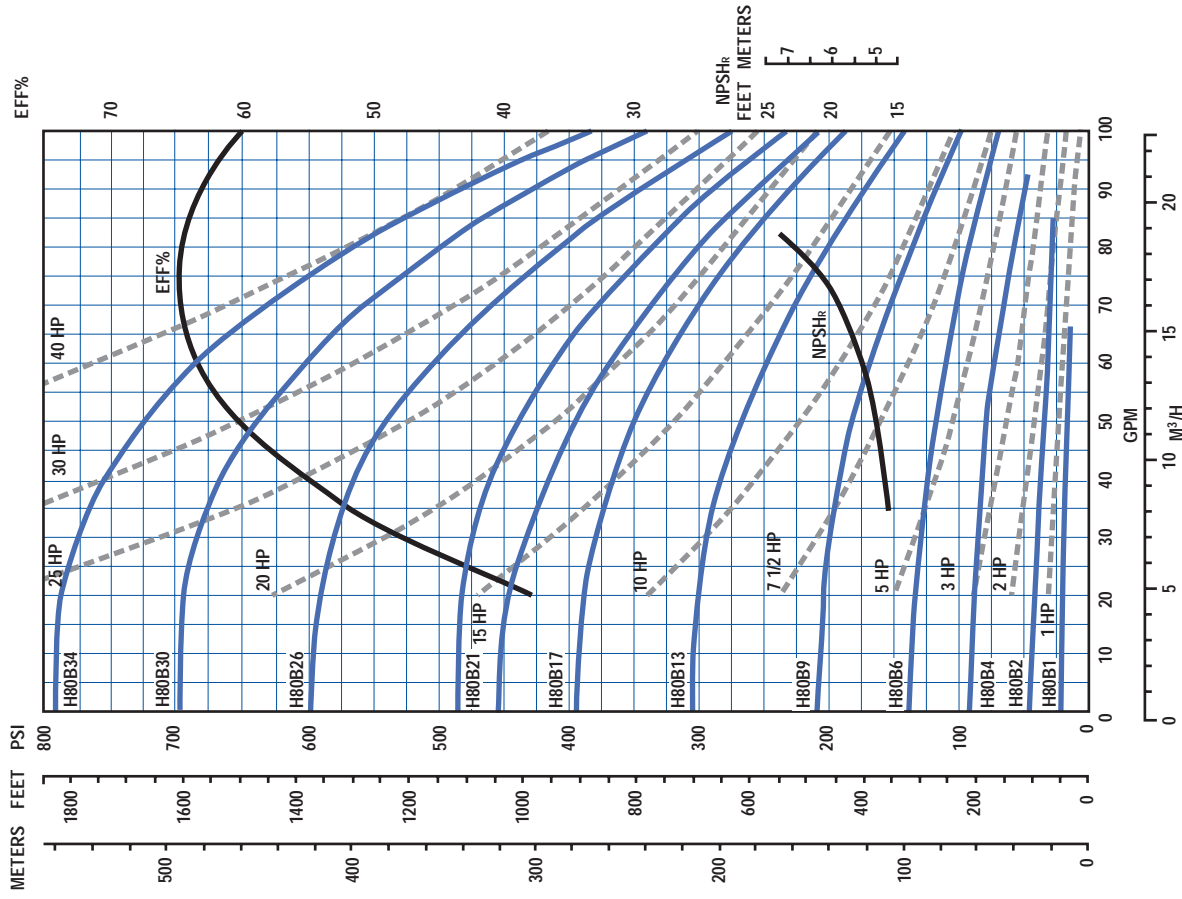
Construction & Design Features

- 1** Closed coupled pump motor with a “C” face, 3450 RPM, 50 or 60 cycle, and a type JM mounting. Oversize ball bearings, class F insulation, and an external slinger ensure trouble free service. The direct coupling of the motor to the pump eliminates the need for a flexible coupling, guard, bearings, lubricator, oil seals, intermediate shaft, and bed plate. You won’t need to deal with troublesome field motor alignment, or noise, vibration, and eventual bearing or coupling failure caused by a misaligned motor.
- 2** Inlet/motor bracket is a heavy walled casting machined for perfect concentric and perpendicular alignment of the motor shaft with the pump shaft coupling. Inlet size is 3” female NPT.
- 3** Thick-walled stainless steel pump housing is flared at one end to accept the inlet and welded at the discharge. Flaring allows the tube to be removed easily, unlike threaded pump housing which can be difficult if not impossible to remove because of galling.
- 4** The rotating assembly is comprised of the pump shaft and coupling assembly, bottom plate, impellers, diffusers, intermediate diffusers, intermediate and top sleeves and diffuser bearings. It is easily removed by loosening the sets screws in the coupling, unbolting the tube from the inlet, sliding the pump housing over the rotating assembly, and pulling the rotating assembly away from the inlet. The mechanical seal remains in place and undisturbed.
- 5** Positive sealing “Buna N” o-ring is used to seal off the inlet / motor bracket on cast iron models. A “Viton” o-ring is used on stainless steel models.
- 6** Welding the discharge to the pump housing makes mechanical seal replacement easy. It eliminates the need to unbolt or unscrew the discharge from the pump housing. A rabbet fit ensures that the diffusers are perfectly aligned when they are compressed within the pump housing. The discharge thread size is 1 1/2” female NPT.
- 7** Top shaft sleeve and bearing 316SS shaft sleeve is water lubricated and runs in a “rulon” or bronze bearing that is molded into the top diffuser, then machined to close concentricity and bore tolerances. Longer pumps use several intermediate bearings to reduce shaft deflection, vibration, and stress.
- 8** Impeller wear rings are insert molded into each diffuser at both the suction and discharge side to eliminate plastic on plastic contact and maintain tight clearances for low leakage and high efficiency.
- 9** Diffuser assemblies, molded of noryl thermoplastic, are concentrically aligned together with rabbet fits and are compressed inside the pump housing to prevent interstage leakage and pressure loss.
- 10** Centrifugal impellers are noryl thermoplastic with keyed hubs, and generate pulse-free pressure at high efficiencies. All impellers and diffusers are injection molded at Weber Industries to insure control of dimensional accuracy and material specifications.
- 11** Oversized stainless steel pump shaft is supported by many intermediate bearings to minimize deflection, vibration and bending stresses. This combined with the elimination of any stress-rising, sharp internal keyway or spline corners allows you to run the pump without fear of vibration or shaft breakage.
- 12** 316 SS Coupling is first interference fit, then pinned and keyed to the pump shaft. It slips over the keyed motor shaft and is locked in place with set screws.
- 13** The spring loaded mechanical shaft seal has a ceramic stationary face and carbon rotating face. Metal components on the rotating half are 302 stainless steel and the elastomers are Buna N (nitrile) for cast iron models, and Viton for stainless steel models. Because the seal is locked into position on the motor shaft by a separate stainless steel spacer, it is not disturbed when the rotating assembly is replaced. Maximum seal (inlet) pressure is 250 PSI.

HT SERIES BOOSTER PERFORMANCE CURVE 60 GPM



HT SERIES BOOSTER PERFORMANCE CURVE 80 GPM



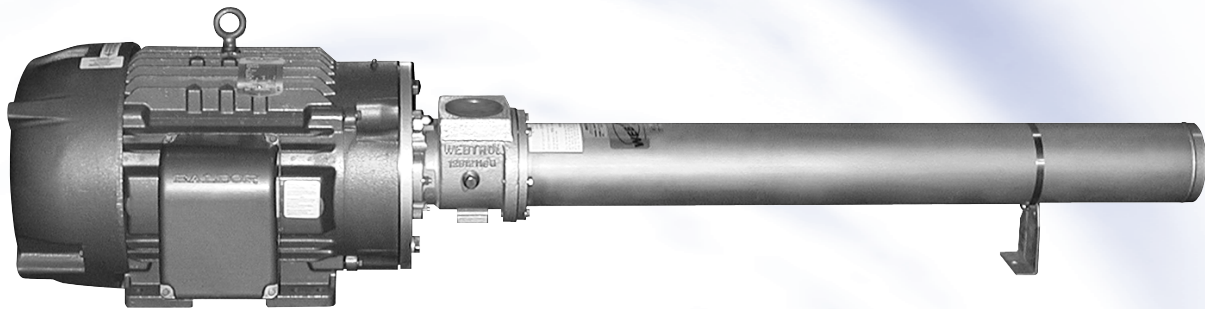
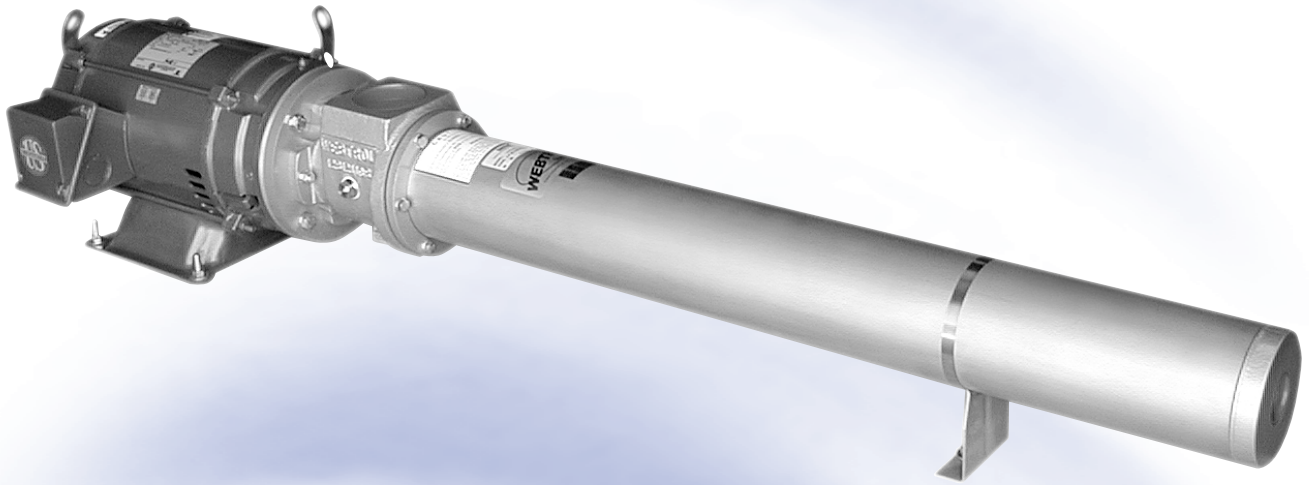
Performance is based on testing with a 3450 RPM, 60 cycle motor. These pump curves and any individual curves, which are available on request, are typical only and are not guaranteed as minimum performance. Contact Weber Industries for 2875 RPM, 50 cycle performance, availability and pricing.

If exact pressure and flow are required, a certified performance curve can be ordered at additional cost, if accompanied by an order for that pump.



HT SERIES SUBMERSIBLE PUMP

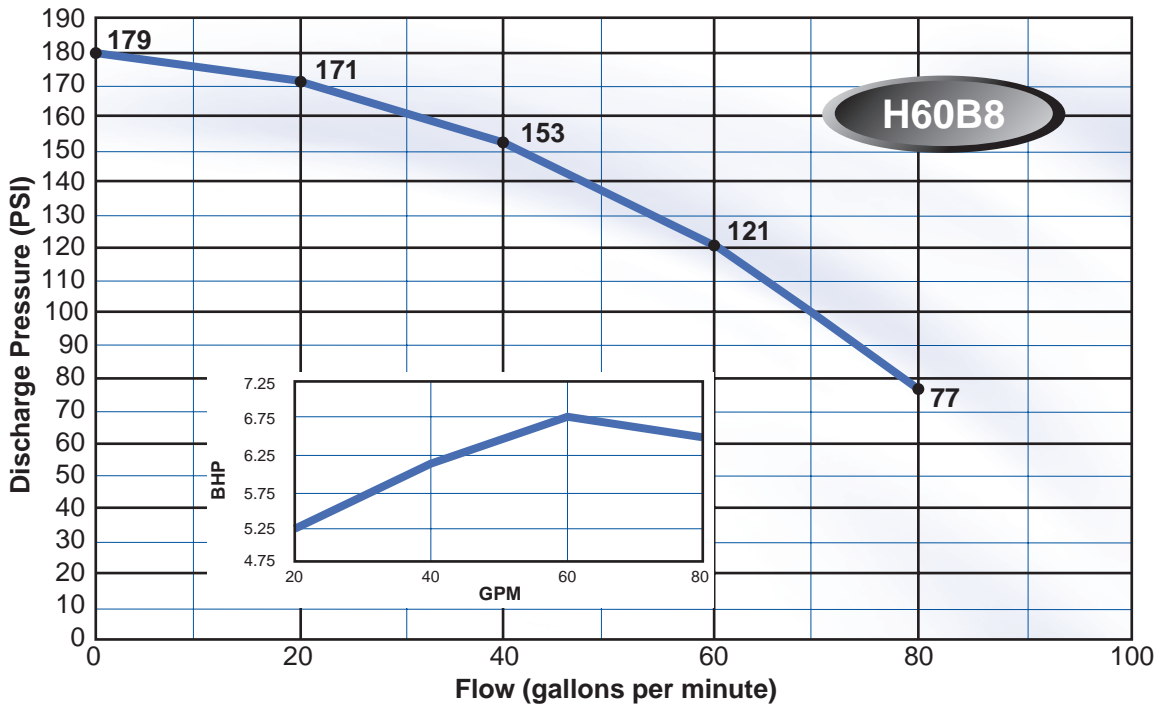
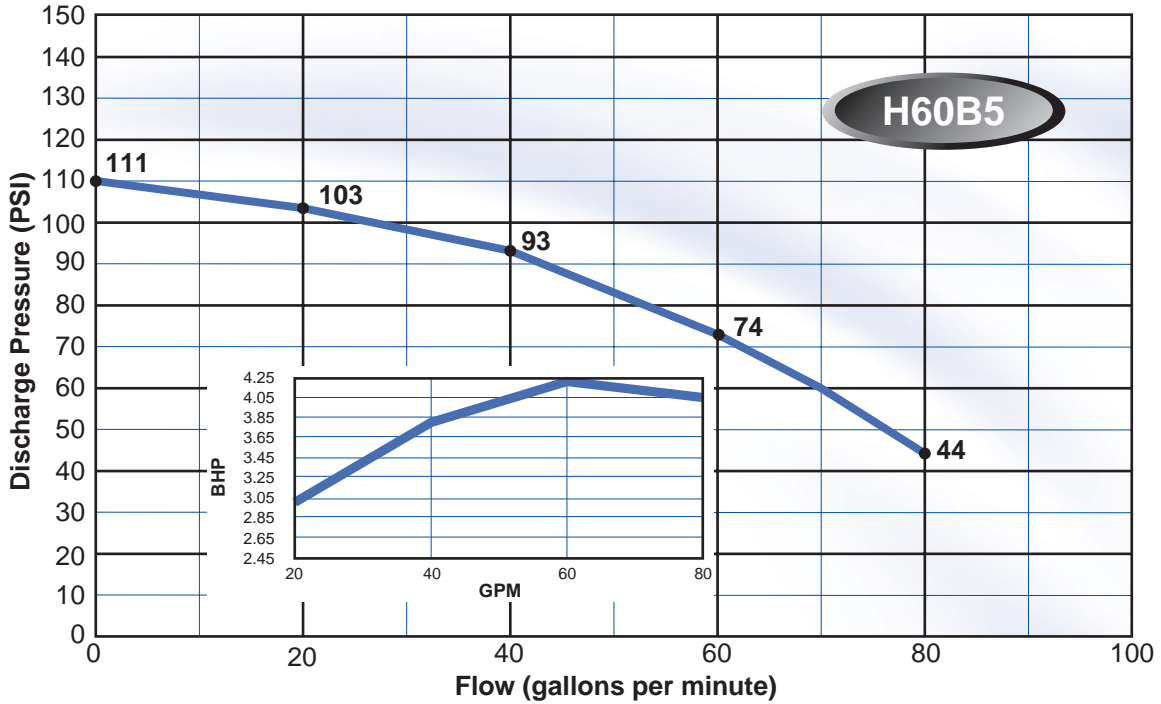
Curves & Selection Charts





HT SERIES BOOSTER CURVES

60 Series



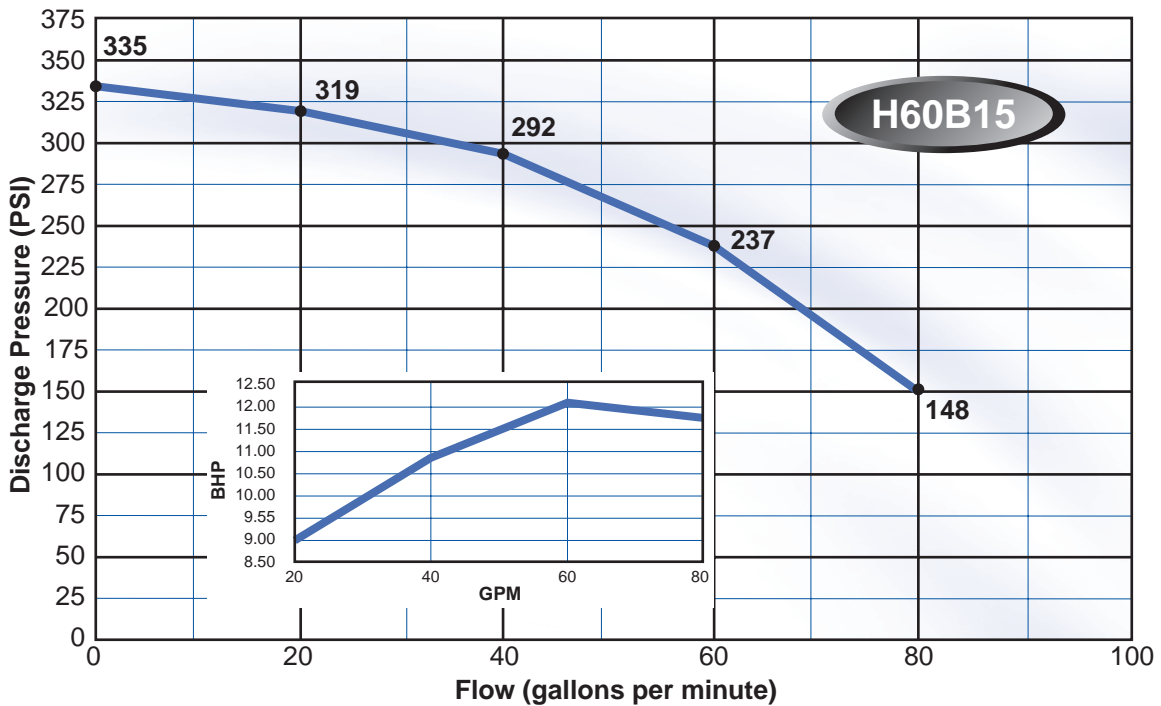
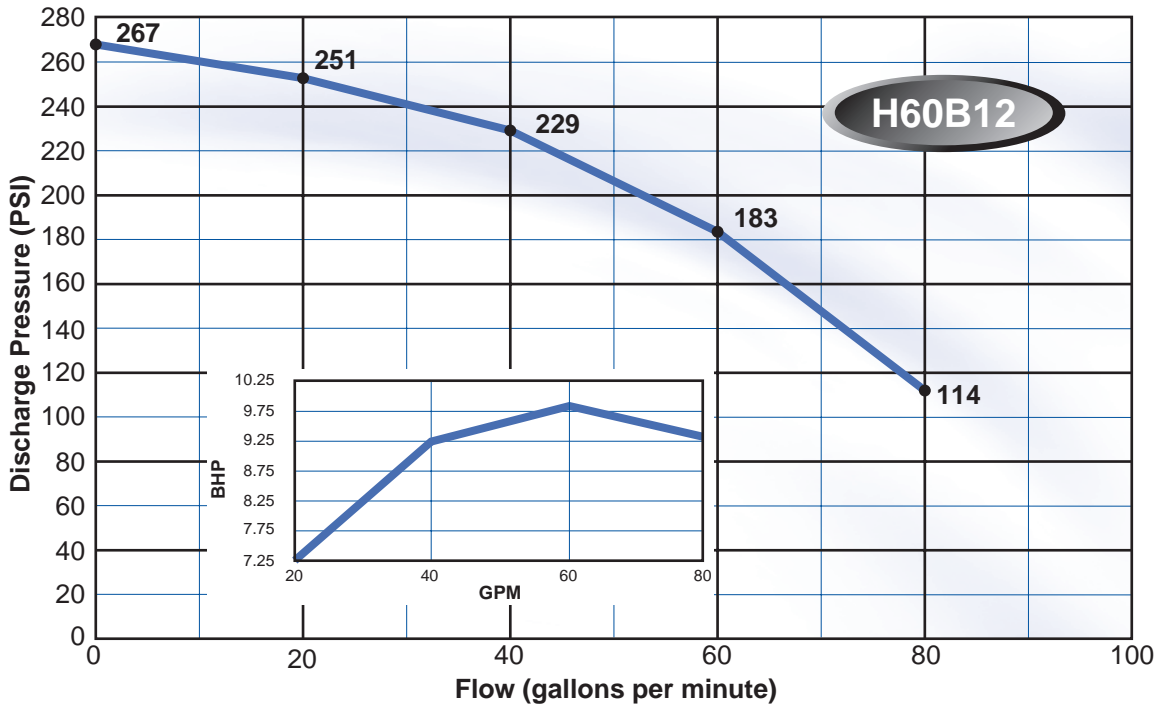
Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

60 Series

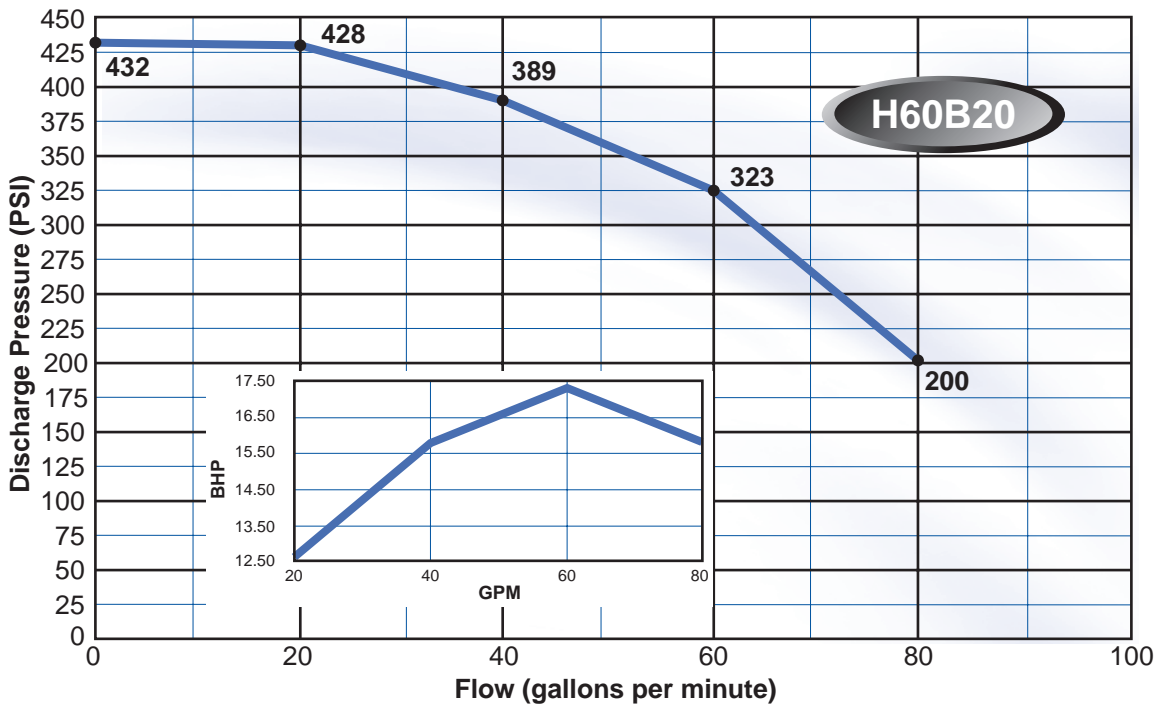
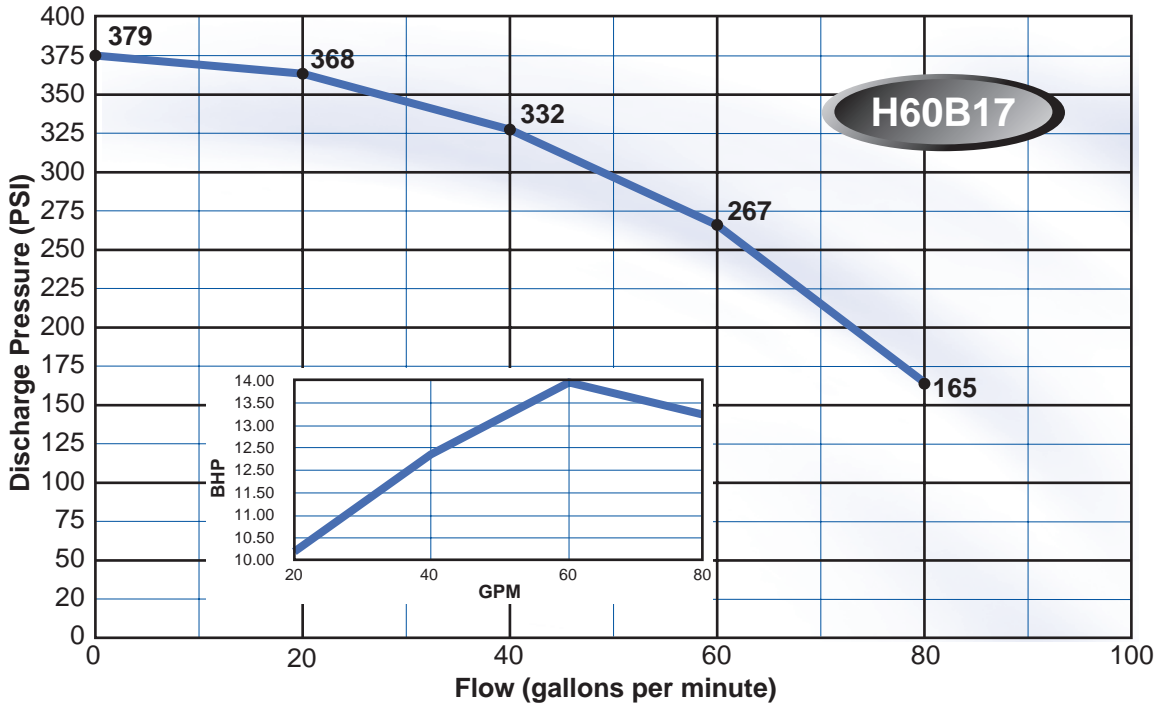


Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES 60 Series

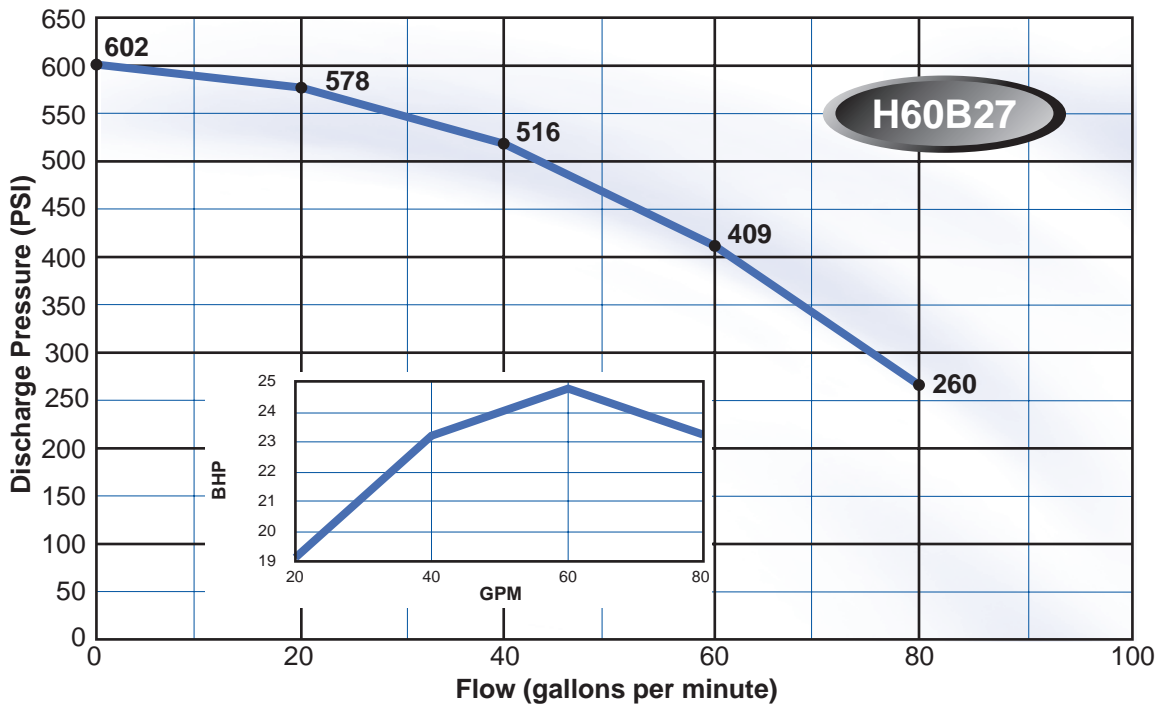
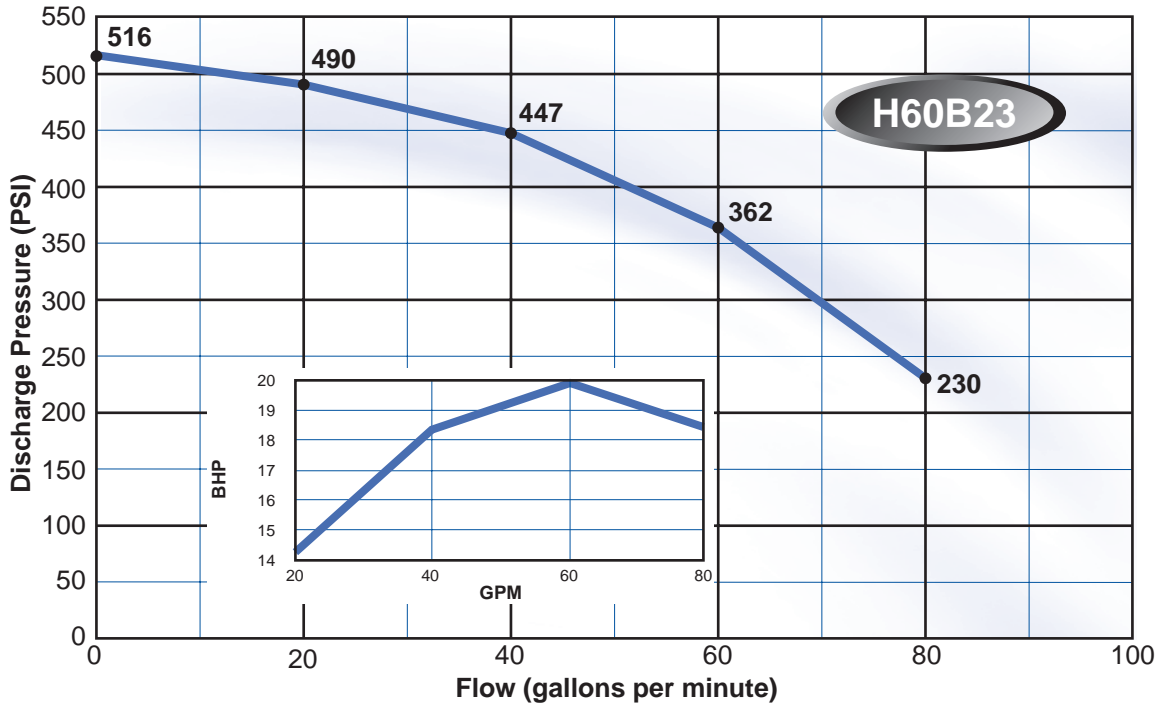


Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES 60 Series



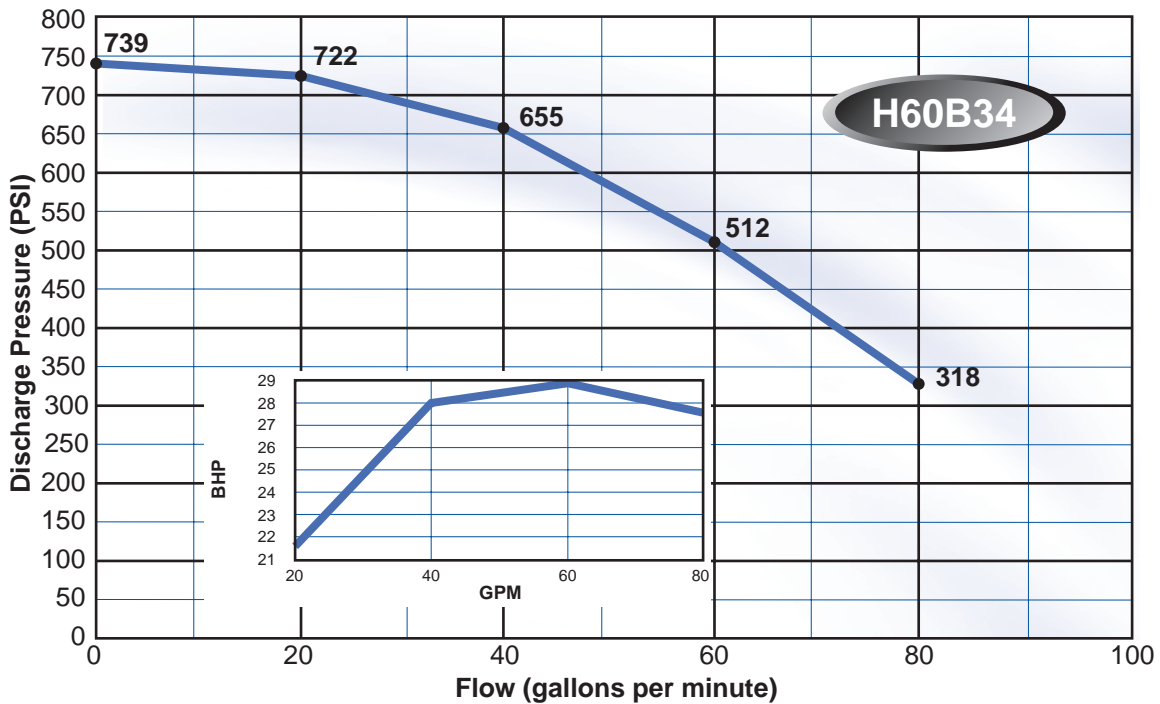
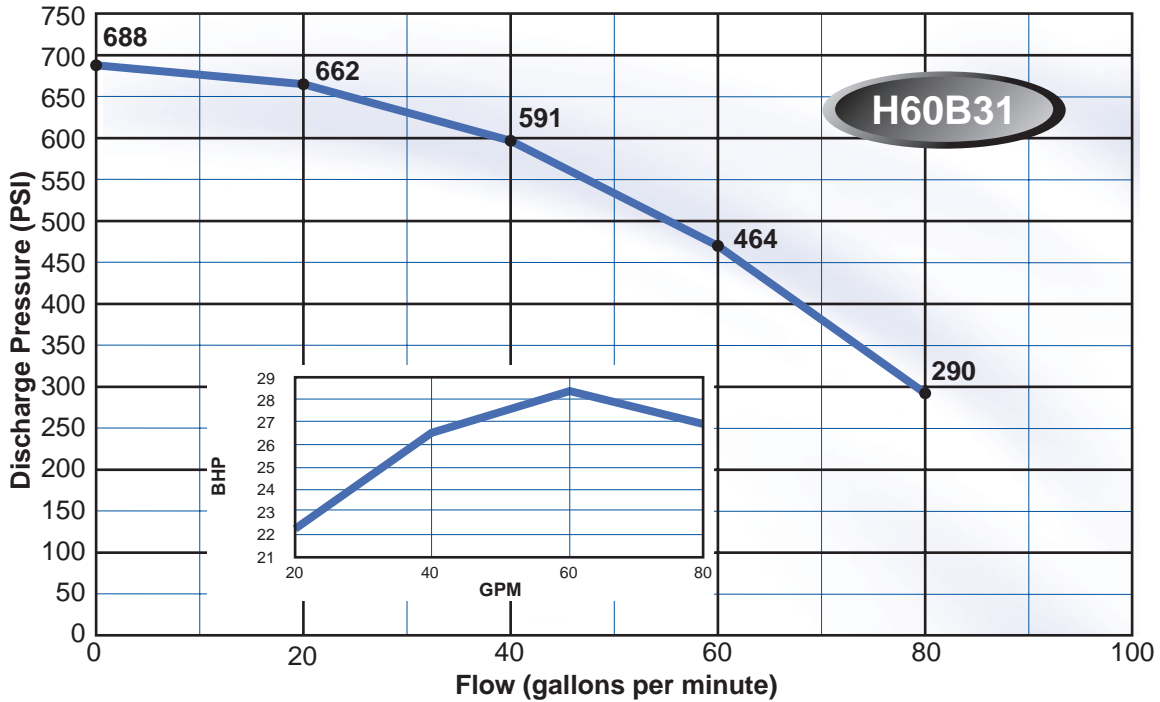
Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

60 Series



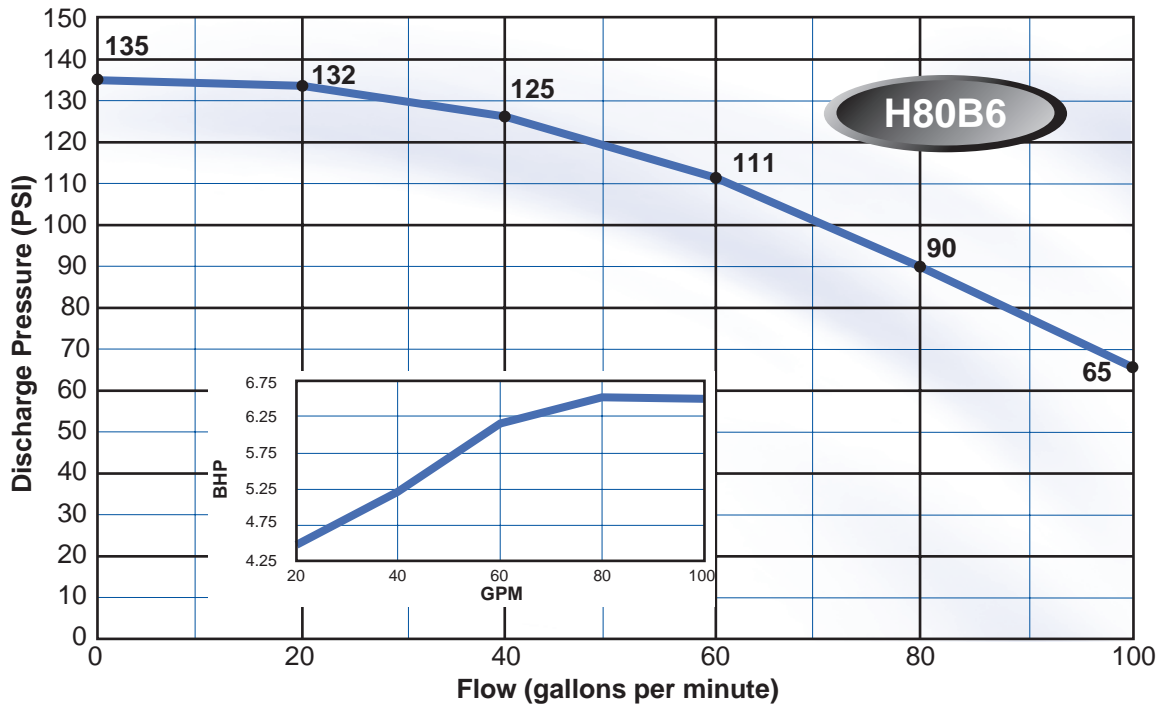
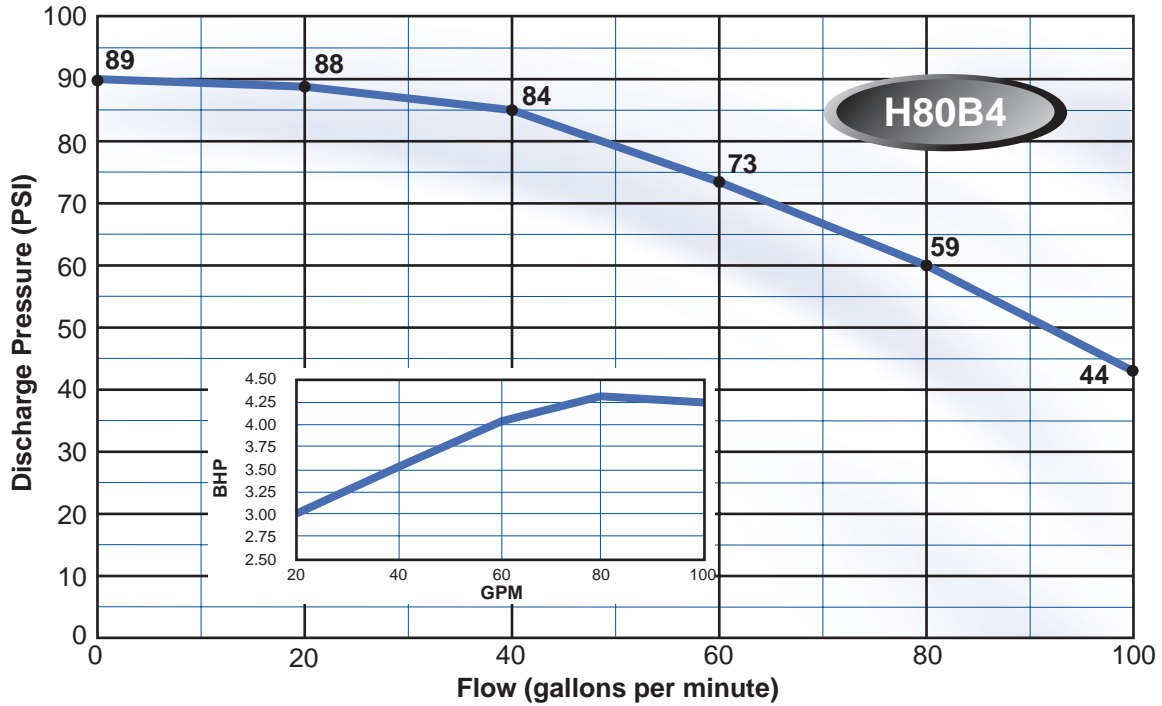
Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

80 Series

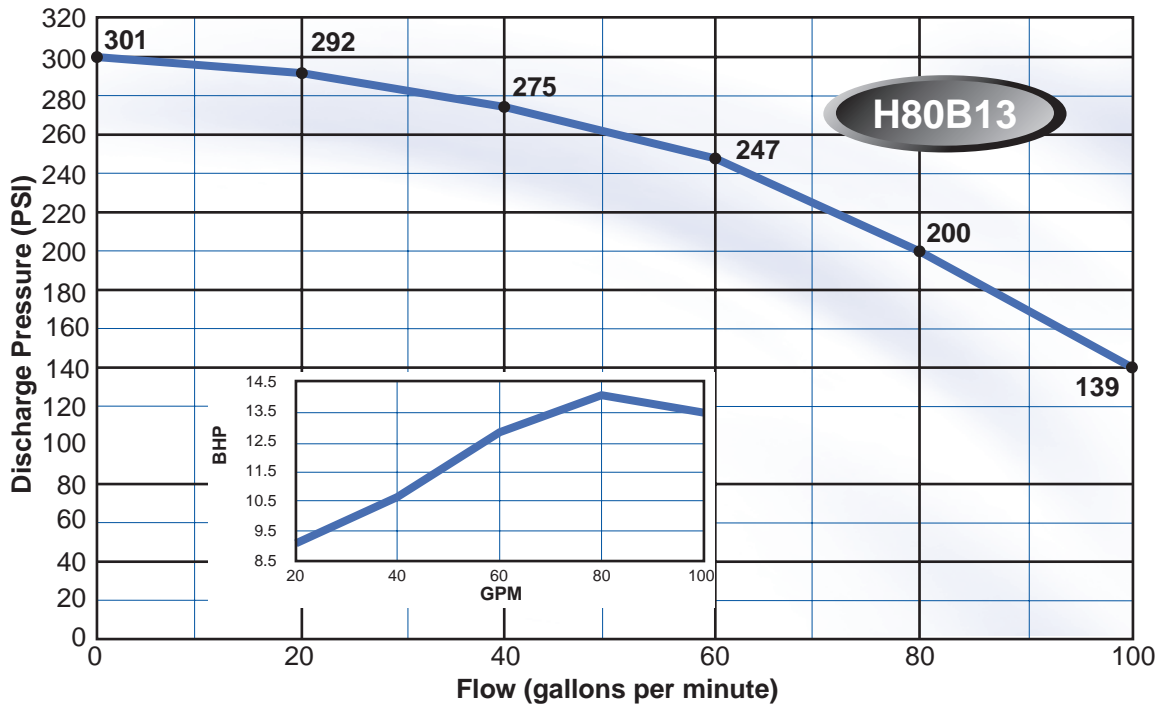
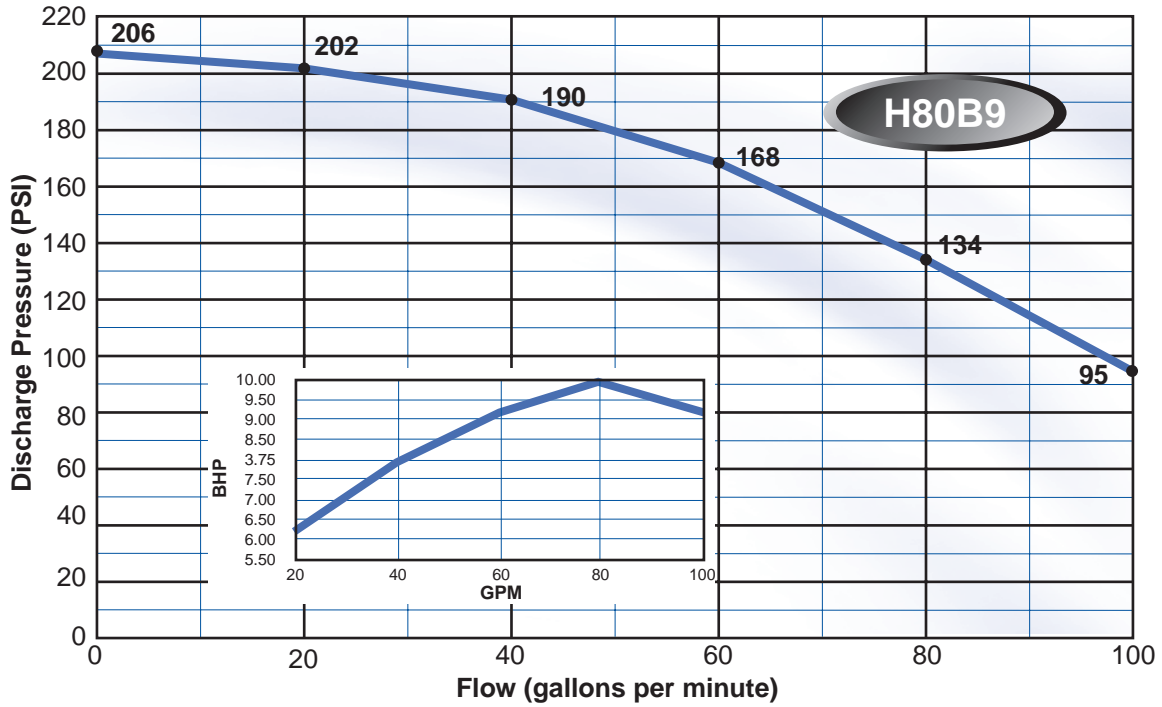


Note:
Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

80 Series



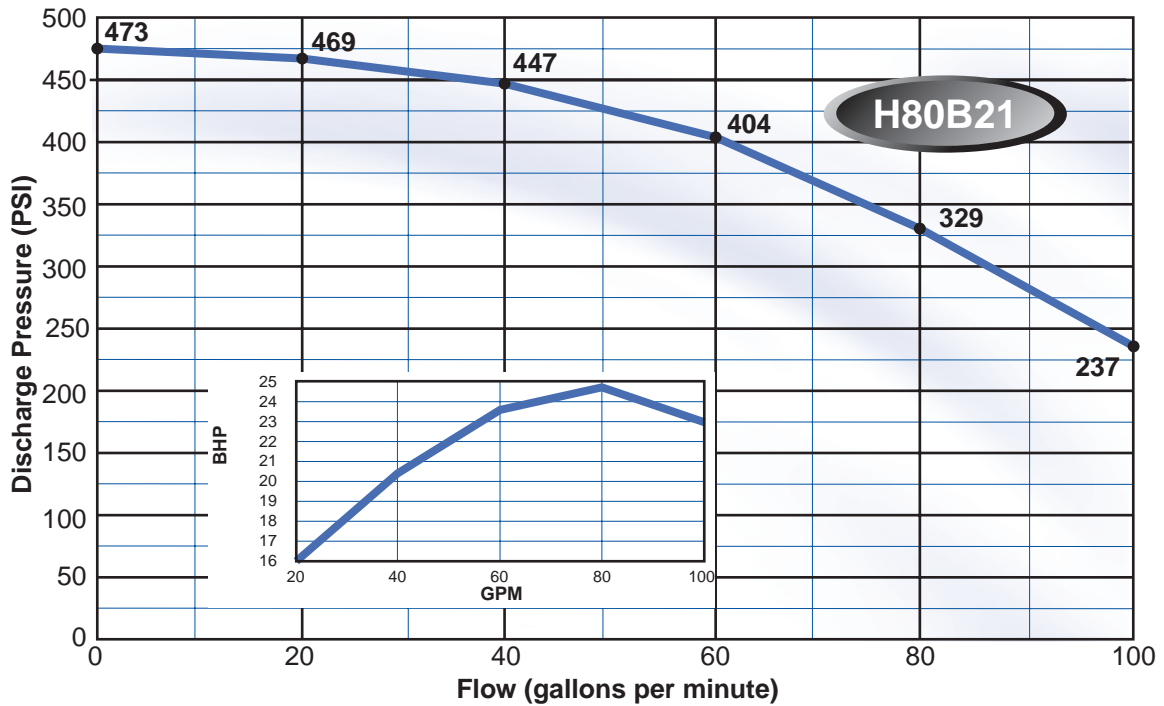
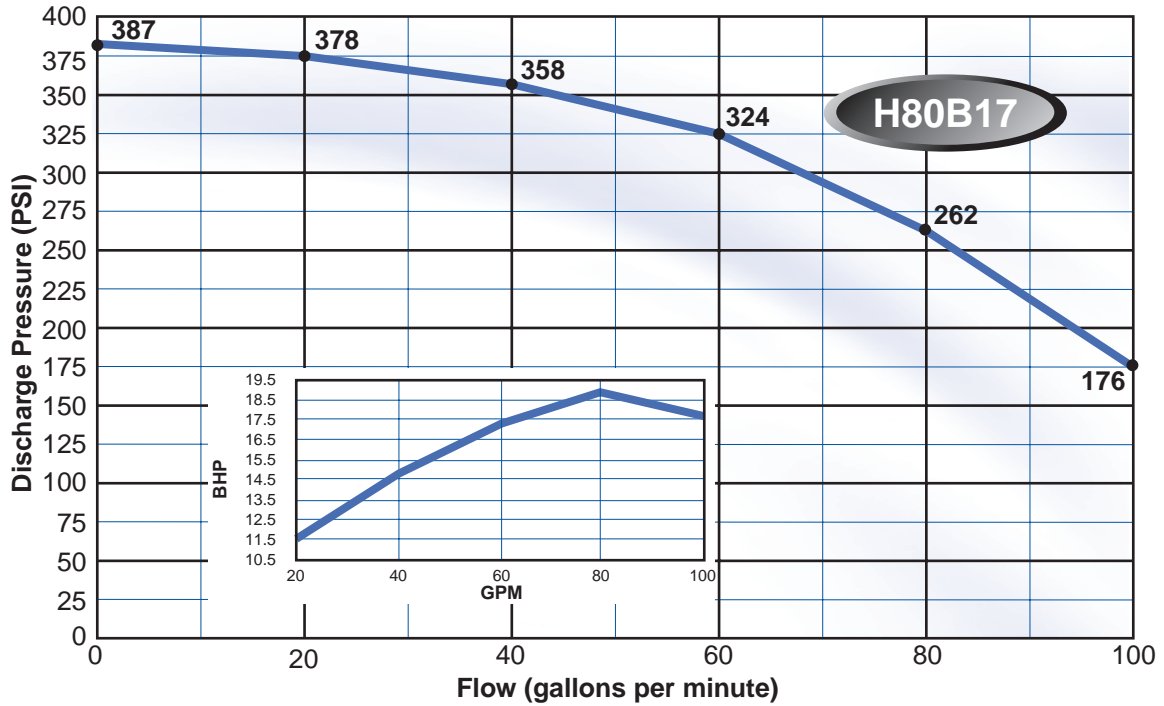
Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

80 Series

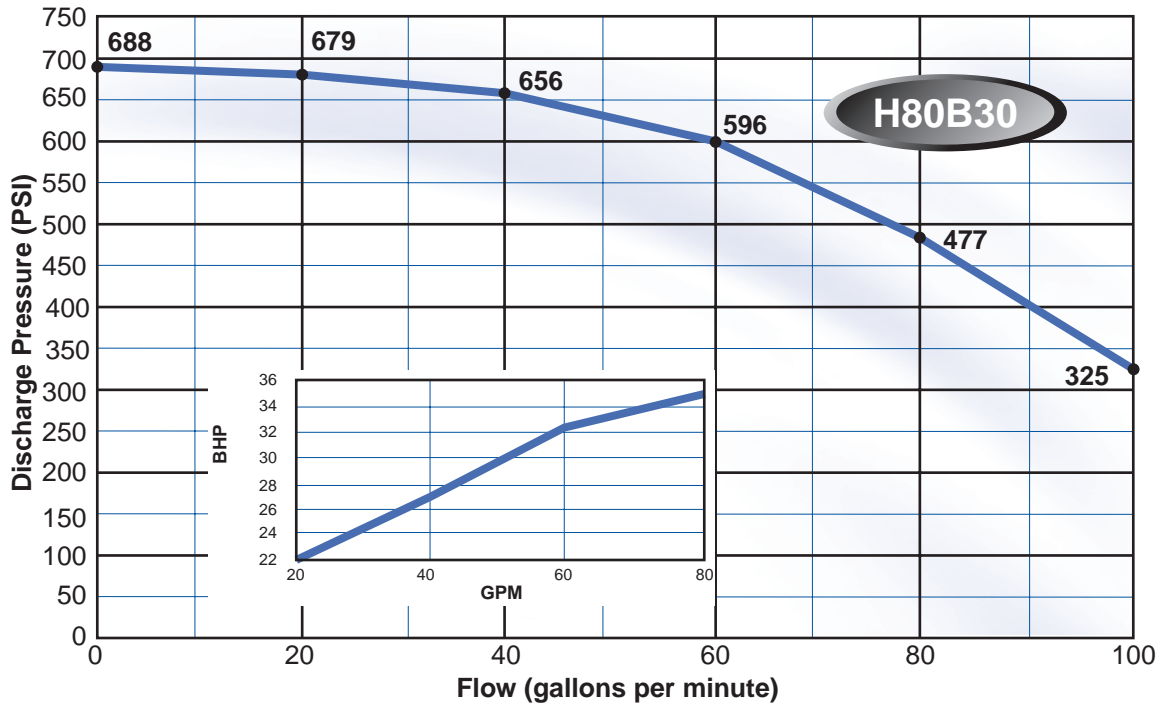
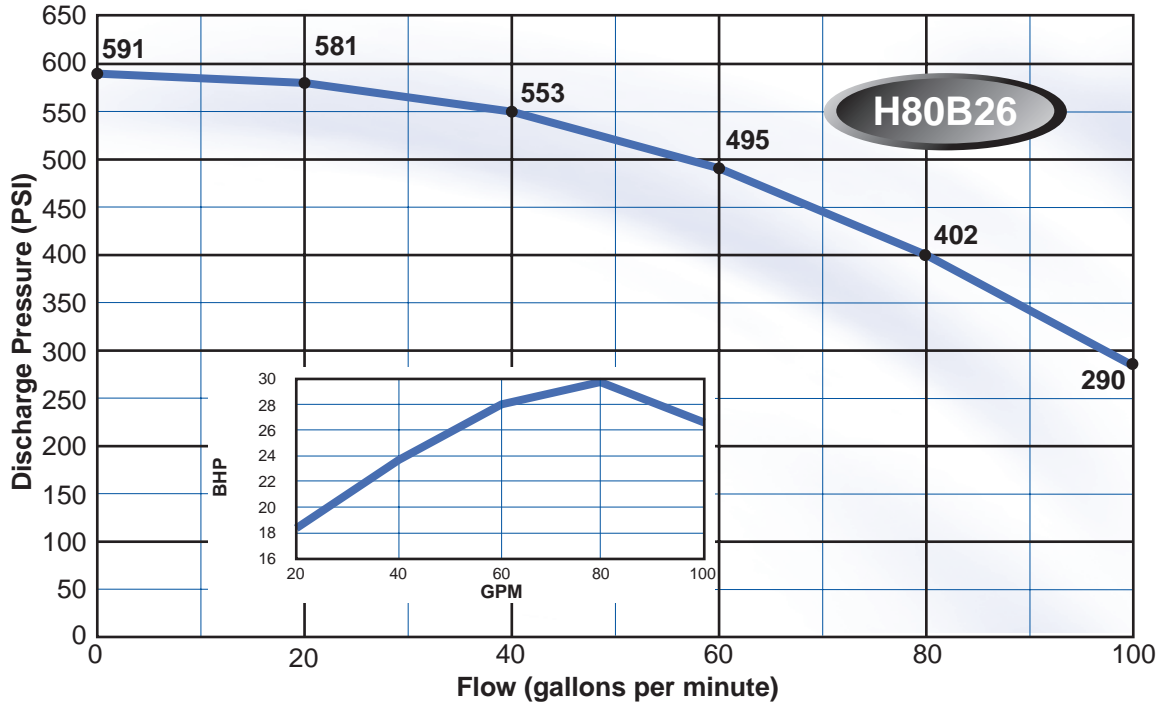


Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES 80 Series



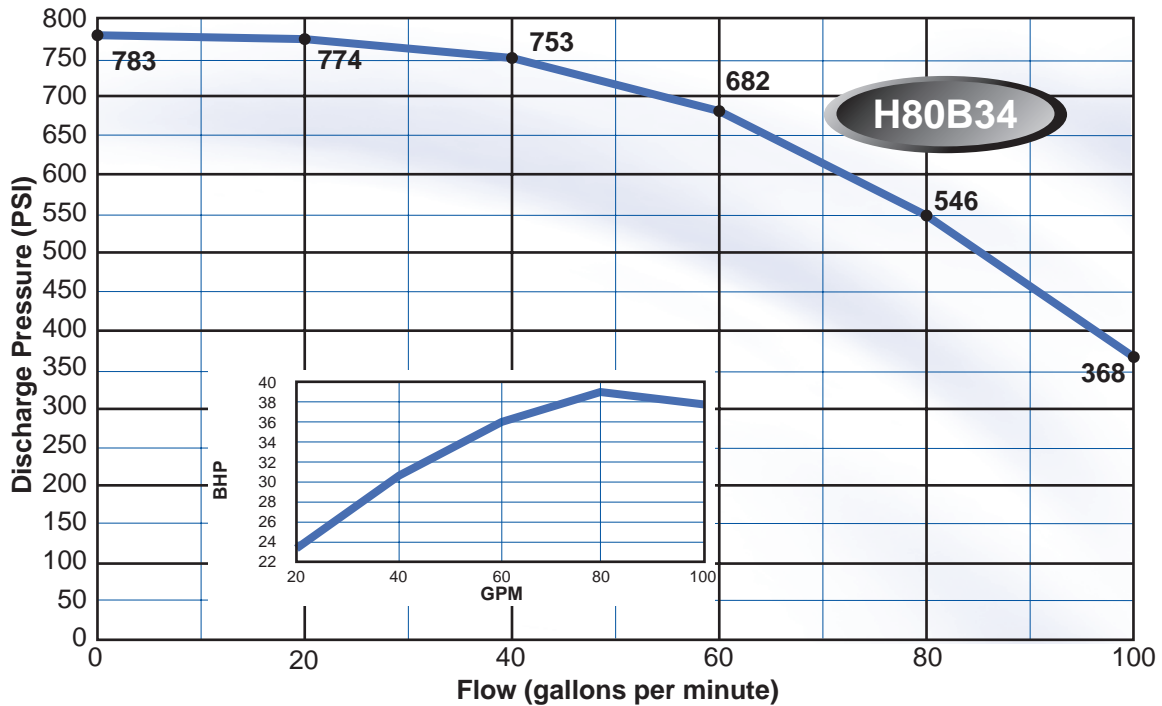
Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER CURVES

80 Series

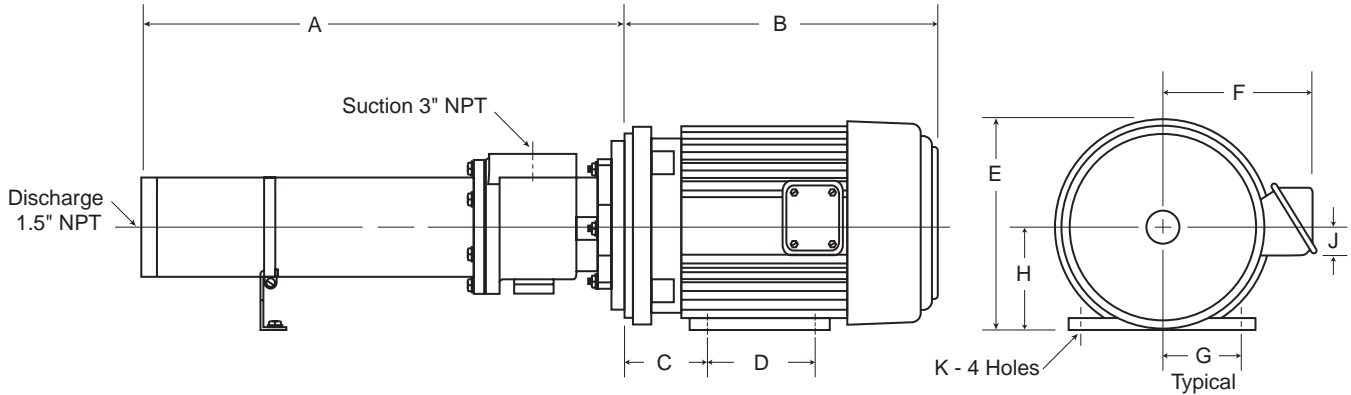


Note:

Curves are based on 60 Hz 3450 rpm motors. 50 Hz 2875 rpm curves are available. These curves are for general guidance only, individual pump curves are available upon request. A certified curve may be requested for an additional cost. Webtrol will build pumps to fit your specific needs, contact factory for pricing.



HT SERIES BOOSTER DIMENSIONS



1 Cast Iron Model No.	Dimensions (inches)										Wt. (lbs)
	A	B	C	D	E	F	G	H	J	K	
H60B2	15.9	9.0	2.2	5	6.7		2.7	3.5		.43	85
H60B3	17.5	10.0	2.2	5	6.7		2.7	3.5		.43	94
H60B5	20.8	11.8	1.1	4.5	8.5	6.8	3.7	4.5	2.1	.43	132
H60B8	26.2	11.8	1.1	4.5	8.5	6.8	3.7	4.5	2.1	.43	149
H60B12	32.6	13.1	4.5	5.5	10	8.1	4.2	5.2	1.5	.43	204
H60B15	40.0	14.6	4.5	7	10	8.1	4.2	5.2	1.5	.43	250
H60B17	43.2	14.6	4.5	7	10	8.1	4.2	5.2	1.5	.43	258
H60B20	48.1	16.8	5	8.2	11	9.1	5	6.2	1.8	.56	290
H60B23	52.9	16.8	5	8.2	11	9.1	5	6.2	1.8	.56	306
H60B27	62.0	18.8	5	10	11.7	9.7	5	6.2	1.8	.56	357
H60B31	64.4	19.3	5	9.5	12.5	10.6	5.5	7	2.1	.56	408
H60B34	72.8	19.3	5	9.5	12.5	10.6	5.5	7	2.1	.56	420
H80B1	14.4	9.0	2.2	5	6.7		2.7	3.5		.43	81
H80B2	16.2	10.0	2.2	5	6.7		2.7	3.5		.43	90
H80B4	19.7	11.8	1.1	4.5	8.5	6.8	3.7	4.5	2.1	.43	141
H80B6	23.7	11.8	1.1	4.5	8.5	6.8	3.7	4.5	2.1	.43	141
H80B9	28.9	13.1	4.5	5.5	10	8.1	4.2	5.2	1.5	.43	188
H80B13	38.0	14.6	4.5	7	10	8.1	4.2	5.2	1.5	.43	238
H80B17	45.4	16.8	5	8.2	11	9.1	5	6.2	1.8	.56	278
H80B21	52.4	18.8	5	10	11.7	9.7	5	6.2	1.8	.56	329
H80B26	63.7	19.3	5	9.5	12.5	10.6	5.5	7	2.1	.56	388
H80B30	70.7	20.8	5	11	12.5	10.6	5.5	7	2.1	.56	495
H80B34	77.6	20.8	5	11	12.5	10.6	5.5	7	2.1	.56	515

1. Dimensions are the same for stainless steel models.