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DEMING® PRODUCT LINE

CATALOG OF HORIZONTAL AND VERTICAL SPLIT
CASE PUMPS FLOW RATES UP TO 10000 GPM

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PRODUCT NUMBERING SYSTEM – 5060A SERIES

Horizontal Split Case Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 0 0 0 0 0 0
1 thru 4 5 thru 8 9 10 11 12 13 14

Digits 1 thru 4 describes the pump figure number.

1 thru 4	Description
5061	
5062	
5063	
5064	Split Case

Digits 5 thru 8 describes the pump size (suction x discharge x max. impeller size).

5 thru 8	Description	5 thru 8	Description	5 thru 8	Description
1615	2 x 1-1/2 x 8	4225	6 X 4 X 9	8145	10 X 8 X 12
2215	3 x 2 x 8	4245	6 X 4 X 12	8165	10 X 8 X 14-1/2
2235	3 x 2 x 11	4265	6 X 4 X 14-1/2	8172	10 X 8 X 17A
2255	3 x 2 x 14	4275	6 X 4 X 17	8175	10 X 8 X 17
2256	3 x 2 x 14B	6125	8 X 6 X 9	8185	10 X 8 X 20
3125	4 X 3 X 9	6142	8 X 6 X 12A	7145	12 X 10 X 12
3135	4 X 3 X 11	6145	8 X 6 X 12	7165	12 X 10 X 14-1/2
3155	4 X 3 X 14	6165	8 X 6 X 14-1/2	7178	12 X 10 X 17
3175	4 X 3 X 17	6178	8 X 6 X 17	7565	14 X 12 X 14-1/2
4223	6 X 4 X 9A	6185	8 X 6 X 20	7566	14 X 12 X 14-1/2

Digit 9 describes the cast materials of the pump and the bearing lubrication.

Digit 9	Description	Digit 9	Description
1	All Cast Iron - Grease Lube	6	Bronze Fitted - Oil Lube
2	Bronze Fitted - Grease Lube	7	DI / Brz Impeller - Oil Lube
3	DI / Brz Impeller - Grease Lube	8	DI / Cast Iron Imp. - Oil Lube
4	DI / Cast Iron Imp. - Grease Lube	9	Special
5	All Cast Iron - Oil Lube		

Digit 10 describes the shaft material and rotation.

Digit 10	Description	Digit 10	Description
0	4140 Steel Shaft RH Rotation	3	4140 Steel Shaft LH Rotation
1	416SS Shaft RH Rotation	4	416SS Shaft LH Rotation
2	316SS Shaft RH Rotation	5	316SS Shaft LH Rotation

Digit 11 describes the shaft sleeve material.

Digit 11	Description	Digit 11	Description
0	#8 Bronze	2	316 SS
1	416 SS	3	440C - packing only

Digit 12 describes the sealing method.

Digit 12	Description
0	Standard packing
1	Teflon packing
2	Single seal, type 21, BF1C1
3	Single seal, type 21, BF171
4	Single seal, type 21, XF1C1
5	Single seal, type 21, XF171
6	Single seal, type 1, BF1C1
7	Single seal, type 1, BF1D1
8	Single seal, type 1, XF1D1

Digit 13 describes the gland material.

Digit 13	Description
1	4140 Steel - Packing
2	Cast Iron - Mechanical Seal
3	316 SS

Digit 14 describes the recirculation line.

Digit 14	Description
0	None required
1	Brass recirculation line
2	316SS recirculation line

- NOTES:**
1. These codes are set up for a standard grease lube pump. For any special construction or material configuration not listed, please list digits 9 thru 12 as 9999 and detail special construction features.
 2. Always list on your purchase order either the impeller diameter required or the capacity and head requirements the impeller is to be designed to handle.

TYPICAL ARCHITECT / ENGINEERING SPECIFICATIONS – 5060 SERIES

Horizontal Split Case Centrifugal Pumps

General

Furnish a unit built in accordance with the Hydraulic Institute and ANSI Standards. Qty _____ Series 5060 Split Case Pump(s) and special accessories. Pump performance and installation details as follows.

Fluid _____ Temperature °F _____
Specific _____ Gravity Viscosity _____
U.S. GPM _____ Total Head _____
Motor Voltage _____ Motor Phase _____
Motor Hertz _____ Motor Speed _____
Motor Efficiency _____ Pump Efficiency _____
Other _____

Submittal Data

Provide General Product Bulletin, Performance Curve, and Dimension Print. Maintenance Manual required at time of shipment. Recommended Spare Parts List to be included.

Testing

The following (Witnessed)(Non-Witnessed) test to be performed:

Pump Performance Routine Motor Test
Hydrostatic - Complete Pump

Exceptions

Any exceptions taken to this specification shall be clearly stated and justification provided.

Pump

Furnish and install, as shown on the plans _____
Deming Fig. _____ Size _____ Horizontally Split Case Double Suction Single Stage Centrifugal Pump(s) each shall be capable of pumping _____ GPM when operating against a total pumping head of _____ feet of (suction lift)(suction pressure) at the temperature, specific gravity and viscosity indicated. The pump shall operate at _____ RPM and shall have _____ percent minimum guaranteed efficiency at the design point. Shut off head shall be (clockwise)(counter-clockwise) rotation when viewed from behind the driver end.

Construction Details

The pump casing shall be of extra heavy cast iron, with minimum tensile strength of 30,000 lbs. and shall be split parallel to the shaft. Bearing housing supports, suction and discharge flanges shall be cast, bored and machined integrally with the lower half casing. Upper and lower half casing shall be dowelled and bolted together, removable upper and lower half casing and bearing caps must permit inspection or removal of the entire rotating assembly without disturbing the piping. Flanges shall be (125 lb)(250 lb) ANSI standard.

The impeller shall be of one-piece cast (bronze)(cast iron) of the enclosed, double suction type, accurately machined and balanced to minimize thrust, shall be keyed and axially adjusted on the shaft by means of threaded shaft sleeves. Shaft shall be protected by renewable (bronze)(416 st. stl.)(316 st. stl.) shaft sleeves that are threaded and tighten with shaft rotation and are free to expand at the stuffing box end.

Renewable (cast iron)(bronze) casing wearing rings shall be accurately machined and securely mounted in the pump casing. Renewable impeller wearing rings shall be of (bronze)(cast iron) and mounted on the impeller at the suction inlets and held in place with set screws. When casing and impeller wearing rings are furnished, they shall be of dissimilar alloy.

Rotating assembly shall be supported by heavy-duty, grease lubricated, cartridge mounted ball bearings. The outboard bearing shall be a double row bearing, locked in position by bearing lock nuts. The inboard bearing shall be single row bearing, free to move axially in the bearing housing. Dual lip seals shall seal the bearing housings against dirt and moisture. Removable bearing caps and bearing covers shall permit inspection or service of the bearings without disturbing the pump casing or piping. Bearing housings shall be designed for grease lubrication. Grease relief shall prevent over-lubrication. When oil lubricated bearings are furnished, constant level oilers shall be mounted on the bearing covers. Stuffing boxes, to seal the pump shaft, shall be located on the shaft center line and include a minimum of five packing rings and a lantern ring in each packing box. Internally drilled liquid passages in upper half casing shall provide lubrication to the packing area through the lantern ring opening. Heavy cast split glands shall be furnished on each stuffing box designed for easy removal for packing inspection and maintenance. Heavy fabricated steel base (with)(without) drip lip to mount the pump and driver shall be furnished. Flexible shaft coupling shall be furnished to connect the driver to the pump. Coupling shall be enclosed in (standard)(OSHA) coupling guard.

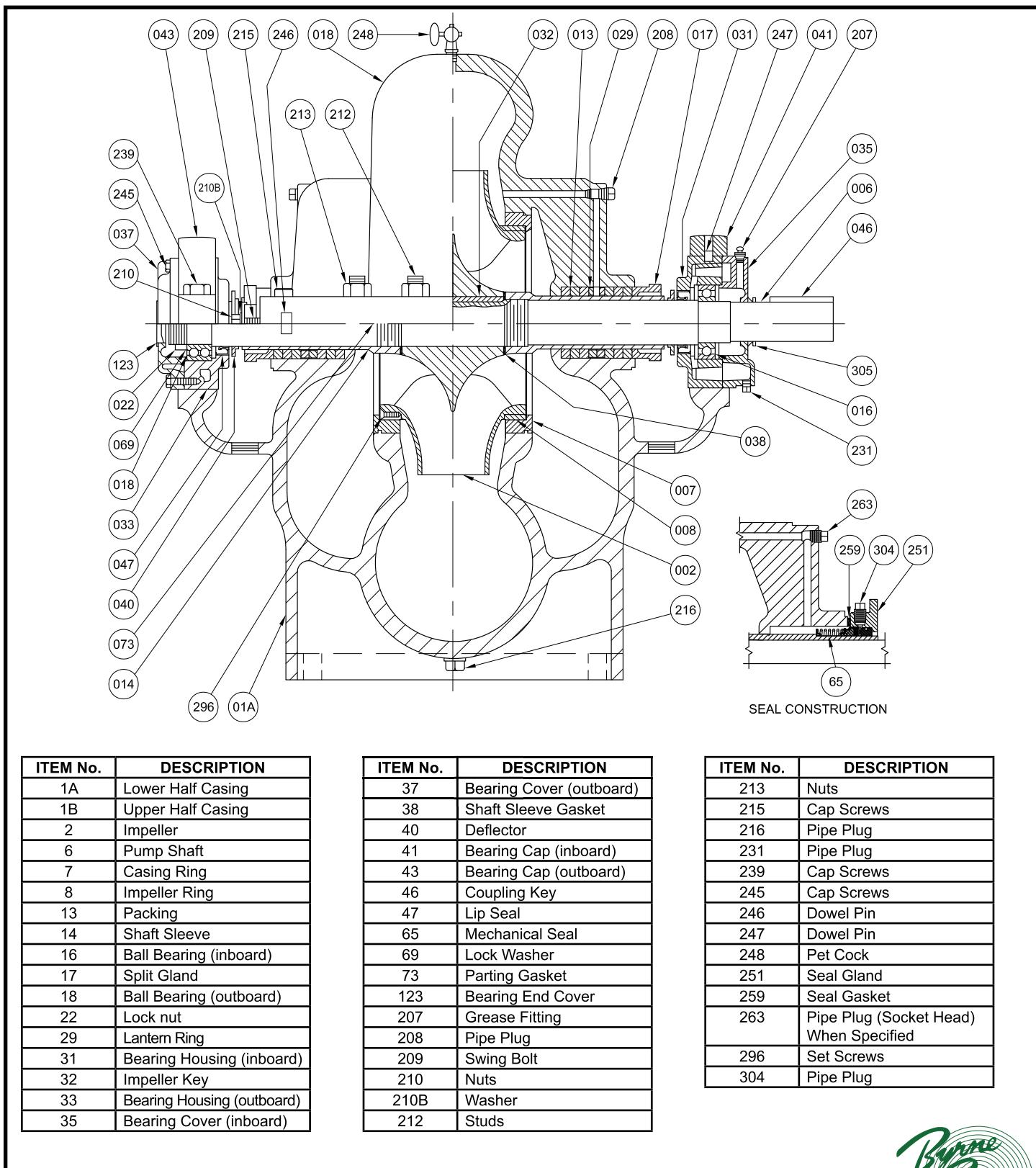
Motor

The motor shall be not less than _____ HP _____ RPM, NEMA Design B squirrel cage induction type, (Drip Proof)(TEFC)(Explosion Proof) EISA motor with (1.15)(1.0) service factor and suitable for operation on (200)(208)(230/460)(460)(575) volt, 3 phase, 60 hertz power supply. Motor size shall be sufficient to prevent overloading at operating conditions or at the lowest listed head conditions whichever point requires greater horsepower. Following installation, grouting and connection of all piping, pump and motor must be checked for alignment in accord with standards of the Hydraulic Institute.



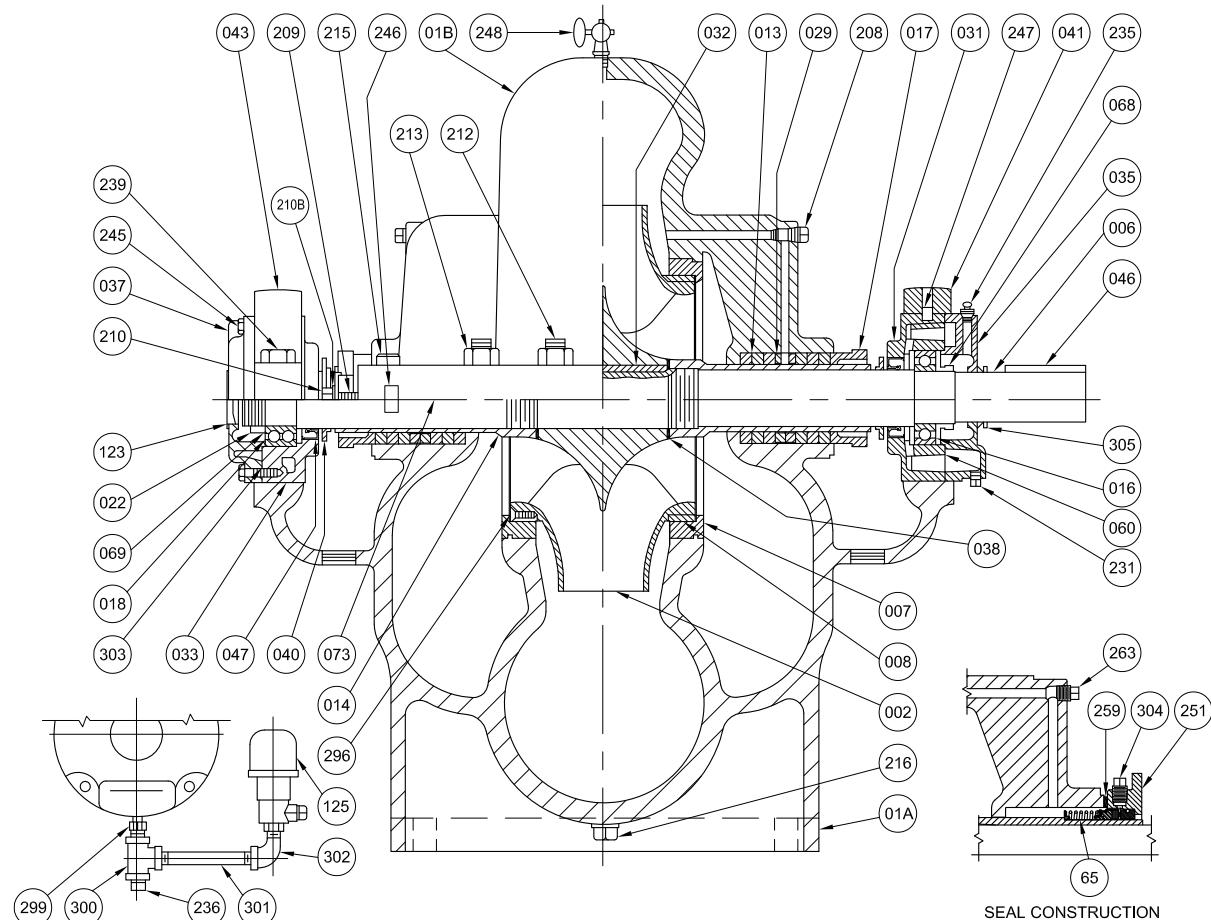
PUMP ASSEMBLY – FIGURE 5060

Horizontal Split Case Centrifugal Pumps



PUMP ASSEMBLY — FIGURE 5060

Horizontal Split Case Centrifugal Pumps



ITEM No.	DESCRIPTION
1A	Lower Half Casing
1B	Upper Half Casing
2	Impeller
6	Pump Shaft
7	Casing Ring
8	Impeller Ring
13	Packing
14	Shaft Sleeve
16	Ball Bearing (inboard)
17	Split Gland
18	Ball Bearing (outboard)
22	Lock nut
29	Lantern Ring
31	Bearing Housing (inboard)
32	Impeller Key
33	Bearing Housing (outboard)
35	Bearing Cover (inboard)
37	Bearing Cover (outboard)
38	Shaft Sleeve Gasket
40	Deflector

ITEM No.	DESCRIPTION
41	Bearing Cap (inboard)
43	Bearing Cap (outboard)
46	Coupling Key
47	Lip Seal
60	Oil Ring
65	Mechanical Seal
68	Shaft Collar
69	Lockwasher
73	Parting Gasket
123	Bearing End Cover
125	Oiler
208	Pipe Plug
209	Swing Bolt
210	Nuts
210B	Washer
212	Studs
213	Nuts
215	Cap Screws
231	Pipe Plug
235	Vent

ITEM No.	DESCRIPTION
236	Pipe Plug
239	Cap Screws
245	Cap Screws
246	Dowel Pin
247	Dowel Pin
248	Pet Cock
251	Seal Gland
259	Seal Gasket
263	Pipe Plug When Specified
296	Set Screws
299	Nipple Reducing
300	Tee
301	Nipple
302	Street Elbow
303	Bearing Cover Gasket
304	Pipe Plug
305	Forsheda Ring



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STANDARD MATERIALS OF CONSTRUCTION

Horizontal Split Case Centrifugal Pumps

Standard Materials of Construction			
ITEM NO	NAME OF PART	BRONZE FITTED	ALL IRON
1	Casing	Cast Iron	Cast Iron
2	Impeller	#8 Bronze	Cast Iron
6	Pump Shaft	SAE 4140 Steel	SAE 4140 Steel
7	Casing Wearing Rings	Cast Iron	Cast Iron
8	Impeller Wearing Rings (where used)	#8 Bronze	Cast Iron
13	Packing	Asbestos Free	Asbestos Free
14	Shaft Sleeves	SAE 660 Bronze	416 Stainless Steel
17	Split Glands	Steel	Steel
29	Lantern Rings (where used)	Teflon	Teflon
32	Impeller Key	Steel	Steel
73	Parting Gasket	Coated Fiber	Coated Fiber
209	Swing Bolts & Nuts	Stainless Steel	Stainless Steel
212	Casing Studs	Steel	Steel
213	Casing Nuts	Steel	Steel

Nominal Casting Composition

Type	Nearest ASTM Number	% COMP.	% COMP.	% COMP.	% COMP.	BHN
No. 8 Bronze	B584 C83600	85 Cu	5 Sn	5 Pb	5 Zn	50 - 60
No. 5 Bronze	B584 C95800	81 Cu	5 Sn	9 Pb	---	50 - 60
Cast Iron	A48 Class 30	3.3 - 3.6 C	.5 - .8 Mn	2.1 - 2.8 Si	.05 P	179 - 228
316 St. Stl.	A743 CF8M	9 - 12 Ni	18 - 21 Cr	1.5 Mn	1.5 Si	135 - 185
Alloy 20	A743 CN7M	27 - 31 Ni	18 - 22 Cr	1.5 Mn	1.5 Si	130 - 160
Ductile Iron	A536 65-45-12	3.3 - 3.9 C	.4 - .75 Mn	2 - 3 Si	.04 P	143 - 207
Navy G Bronze	B584 C90500	86 - 89 Cu	9 - 11 Sn	1 - 3 Zn	1 Pb	60 - 75


WARNING:

CANCER AND REPRODUCTIVE HARM -
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"The militia is our ultimate safety. We can have no security without it."

—Patrick Henry



PRESSURE RATINGS — FIGURE 5060

Horizontal Split Case Centrifugal Pumps

Pump Size	Model No	Size Code	STANDARD CONSTRUCTION			OPTIONAL for PSI (2)	
			Cast Iron Flange Rating PSI (1)		Maximum Casing Working Pressure PSI	Flange Rating and Casing Working Pressure PSI	Casing Material Bronze Fitted or All Iron
			Suction	Discharge			
2 x 1-1/2 x 8	5061	1615	125	125	175	250	D.I.
3 x 2 x 8	5061	2215	125	125	175	250	D.I.
3 x 2 x 11	5061	2235	125	125	175	250	C.I.
3 x 2 x 14	5061	2255	125	125	175	250	D.I.
3 x 2 x 14B	5061	2256	125	125	175	250	D.I.
4 x 3 x 9	5061	3125	125	125	175	250	D.I.
4 x 3 x 11	5062	3135	125	125	175	250	C.I.
4 x 3 x 14	5062	3155	125	125	175	250	D.I.
4 x 3 x 17	5062	3175	125	125	175	250	D.I.
6 x 4 x 9A	5062	4223	125	125	175	250	D.I.
6 x 4 x 9	5062	4225	125	125	175	250	D.I.
6 x 4 x 12	5062	4245	125	125	175	250	D.I.
6 x 4 x 14-1/2	5062	4265	125	125	175	250	D.I.
6 x 4 x 17	5063	4275	125	125	175	250	D.I.
8 x 6 x 9	5062	6125	125	125	175	250	D.I.
8 x 6 x 12A	5063	6142	125	125	175	250	D.I.
8 x 6 x 12	5063	6145	125	125	175	250	D.I.
8 x 6 x 14-1/2	5063	6165	125	125	175	250	D.I.
8 x 6 x 17	5063	6178	125	125	175	250	D.I.
8 x 6 x 20	5064	6185	125	250	215	250	D.I.
10 x 8 x 12	5063	8145	125	125	175	250	D.I.
10 x 8 x 14-1/2	5063	8165	125	125	175	250	D.I.
10 x 8 x 17A	5064	8172	125	125	175	250	D.I.
10 x 8 x 17	5064	8175	125	125	175	250	D.I.
10 x 8 x 20	5064	8185	125	250	215	250	D.I.
12 x 10 x 12	5064	7145	125	125	175	250	D.I.
12 x 10 x 14-1/2	5064	7165	125	125	150	250	D.I.
12 x 10 x 17	5064	7175	125	125	175	250	D.I.
14 x 12 x 14-1/2	5064	7565	125	125	175	---	---
14 x 12 x 14-1/2	5064L	7566	125	125	175	---	---

(1) On Model 5060 Series pumps, all standard 125 psi flanges have 250 psi thickness with 125 psi O.D. and drilling

(2) With Optional Construction for 250 psi, the hydrostatic test pressure is 375 psi.

(3) Maximum suction pressure is equal to maximum working pressure minus total head.

Temperature Limitations: Pumps with Packed Stuffing Box - 250°F maximum
Pumps with Mechanical seals - See Price Pages

C.I. = Cast Iron

D.I. = Ductile Iron



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INTERCHANGEABILITY CHART

Horizontal Split Case Centrifugal Pumps

Fig. No.	5061					5062					5063					5064 & 5064L											
ITEM NO.	SUCTION	2	3	3	3	4	4	4	4	6	6	6	8	6	8	8	8	10	10	12	12	12	14	14			
	DISCHARGE	1½	2	2	2	3	3	3	3	4	4	4	6	4	6	6	6	8	8	8	10	10	10	12	12		
	MAX. IMPELLER	8	8	11	14	9	11	14	17	9	12	14½	9	17	12	14½	17	12	14½	20	17	20	12	14½	17	14½	14½
	SIZE CODE	1615	2215	2235	2255	3125	3135	3155	3175	4225	4245	4285	6125	4275	6145	6165	6178	8145	8165	6185	8172 8175	8185	7145	7165	7175	7565	7566
6	SHAFT	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	E			
7	CASING RING	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	6	
8	IMPELLER RING (1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	2	--	2	2	3	3	4	4	5	
13	PACKING	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
14	SLEEVE	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
16	BEARING, INBOARD	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
17	SPLIT GLAND	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
18	BEARING, OUTBOARD	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
29	LANTERN RING	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
31	BEARING HOUSING I.B.	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
32	IMPELLER KEY	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	E			
33	BEARING HOUSING O.B.	F	F	F	F	F	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
35	BEARING COVER I.B.	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
37	BEARING COVER O.B.	F	F	F	F	F	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
40	DEFLECTOR	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
46	COUPLING KEY	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
47	LIP SEAL	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
209	SWING BOLTS	A	A	A	A	A	B	B	B	B	B	B	C	C	C	C	C	D	D	D	D	D	D	D			
7	CASING RING OPTION	1	1	1	1	2	3	3	3	4	5	5	6	5	6	7	7	--	--	7	--	--	--	--	--		
8	IMPELLER RING OPTION	1	1	1	1	2	3	3	3	4	5	5	6	5	6	7	7	--	--	7	--	--	--	--	--		

(1) PUMPS HAVING DISCHARGE SIZE 8" AND LARGER HAVE IMPELLER & CASING RINGS AS STANDARD.

SIZE 6" & SMALLER ARE STANDARD WITH CASING RINGS ONLY.

"Perfect freedom is as necessary to the health and vigor of commerce as it is to the health and vigor of citizenship."

—Patrick Henry



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VENT, FILL AND DRAIN CHART

Horizontal Split Case Centrifugal Pumps

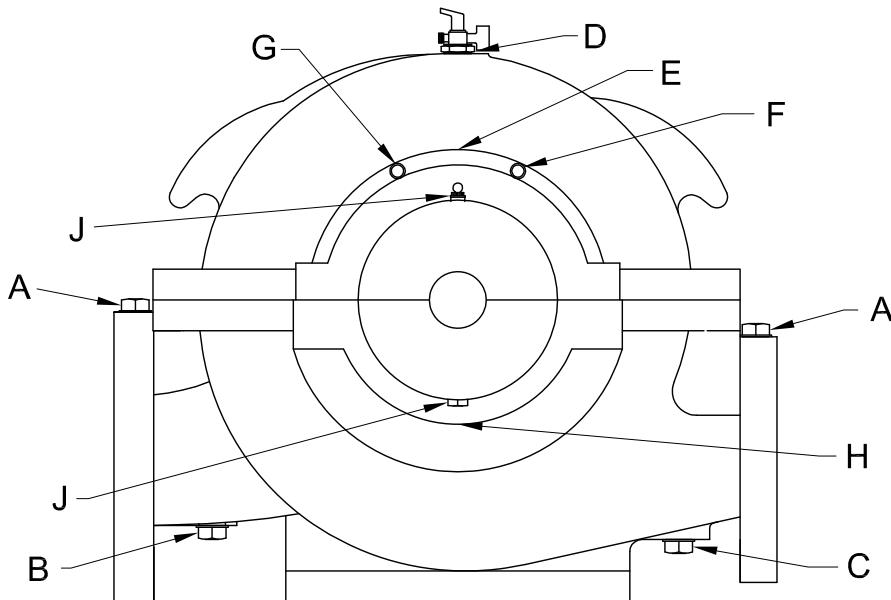


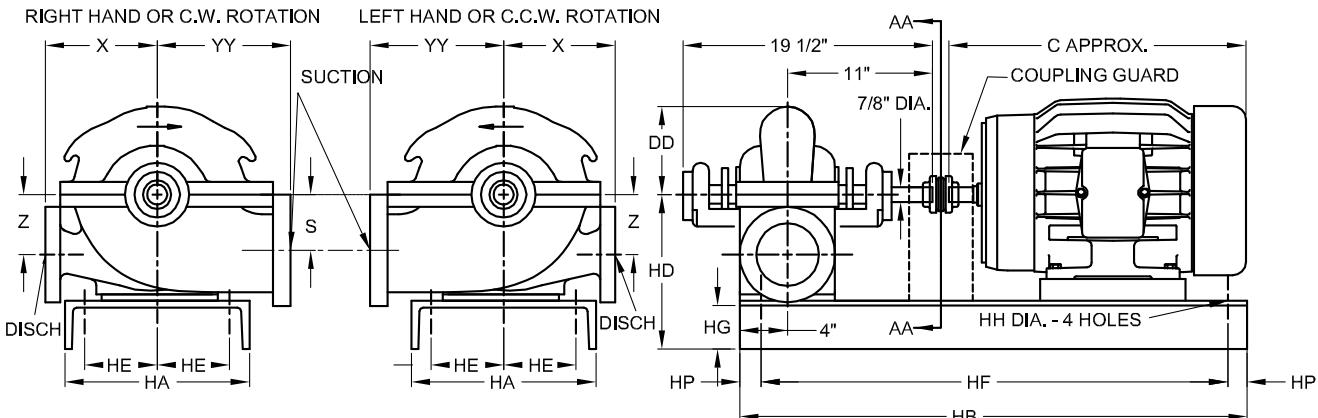
Fig. No.		5061					5062					5063					5064										
ITEM NO.	SUCTION	2	3	3	3	4	4	4	4	6	6	6	8	6	8	8	8	10	10	8	10	10	12	12	12	14	
	DISCHARGE	1½	2	2	2	3	3	3	3	4	4	4	6	4	6	6	6	8	8	6	8	8	10	10	10	12	
	MAX. IMPELLER	8	8	11	14	9	11	14	17	9	12	14½	9	17	12	14½	17	12	14½	20	17	20	12	14½	17	14½	
A	GAGE TAP	REG.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
		MAX.	3/8	3/8	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
B	SUCTION DRAIN	REG.	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	
		MAX.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1½	1½	1½	1½	
C	DISCHARGE DRAIN	REG.	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	
		MAX.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1½	1½	1½	1½	
D	TOP VOLUTE	REG.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1	1	1	1	1	1	1	1
		MAX.	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	1	1	1	1	1	1	1
E	PRIMING TAPS SUCTION BOX	*NOR.	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
		MAX.	3/4	3/4	3/4	3/4	1	1	1	1	1¼	1¼	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½
F	PACKING BOX BYPASS	EXT.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
		INT.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
H	DRIP POCKET DRAIN	REG.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	1	1	1	1	1	1	1
		MAX.	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
J	GREASE LUB. BRG. COVER		1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8

(*) Tapped only to order

PUMPS WITH TYPE A OR B STEEL BASE, COUPLING & MOTOR DIMENSIONS — FIGURE 5061

Horizontal Split Case Centrifugal Pumps

AA - VIEW - LOOKING AT SHAFT EXTENSION FROM BEHIND THE DRIVER
RIGHT HAND OR C.W. ROTATION FURNISHED UNLESS OTHERWISE SPECIFIED.



RH/Clockwise rotation is furnished unless otherwise specified.

PUMP	SUCT	DISCH	DD	YY	S	X	Z
2 x 1½ x 8	2	1½	5	7	3½	6½	3½
*3 x 2 x 8	3	2	5¼	7	3½	6½	3½
3 x 2 x 11	3	2	7½	9	4½	8	4½
3 x 2 x 14	3	2	8¾	10	5½	10	5½
4 x 3 x 9	4+	3	7	9	4	8	4

(*) SIZE 3 x 2 x 8 WITH 250LB FLANGES YY = 7-3/8", X = 6-5/8"

(+) TOP TWO BOLT HOLES OF FLANGE ARE TAPPED.

SIZE	SUCTION & DISCH 125LB ASA FF			SUCTION & DISCH 250LB ASA FF		
	DIA. FLG.	# -BOLTS	B.C.	DIA. FLG.	BOLTS	B.C.
1½	5	4 - ½	3½	6½	4 - ¾	4½
2	6	4 - ½	4¾	6½	8 - ½	5
3	7½	4 - ½	6	8½	8 - ¾	6½
4	9	8 - ½	7½	10	8 - ¾	7½

BASE DIMENSIONS IN INCHES																				
FRAME NO	143T	145T	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS
BASE NO.	27501	27501	27502	27502	27503	27504	27504	27504	27504	27505	27505	27504	27507	27507	27507	27507	27507	27507	27507	27507
C	13½	13½	14½	15½	17½	19¼	22½	24½	25½	24½	27½	26	28½	27½	30½	28½	33½	31	34½	32
HA	12	12	12	12	12	12	15	15	15	15	15	15	18	18	18	18	18	18	18	18
HB	28	28	32	32	32	36	40	40	40	40	43	40	46	46	46	46	46	46	46	46
HD 2x1-1/2x8	9½	9½	9½	9½	9½	9½	9½	9½	10½	10½	10½	10½	10½	12	12	12	13	13	13	13
HD 3x2x8	9¾	9¾	9¾	9¾	9¾	9¾	10¾	10¾	10¾	10¾	10¾	10¾	10¾	12	12	12	13	13	13	13
HD * 3x2x11	11	11	11	11	11	11	11½	11½	11½	11½	11½	11½	11½	12	12	12	13	13	13	13
HD 3x2x14	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
HD 4x3x9	11	11	11	11	11	11	11½	11½	11½	11½	11½	11½	11½	12½	12½	12½	13	13	13	13
HG	3	3	3	3	3	3	3¾	3¾	3¾	3¾	3¾	3¾	3¾	4	4	4	4	4	4	4
HE	4¾	4¾	4¾	4¾	4¾	4¾	6	6	6	6	6	6	6	7½	7½	7½	7½	7½	7½	7½
HE 4x3x9	4¾	4¾	4¾	4¾	4¾	4¾	6	6	6	6	6	6	6	6½	6½	6½	7½	7½	7½	7½
HF	25½	25½	29½	29½	29½	33½	37½	37½	37½	37½	40½	37½	43½	43½	43½	43½	43½	43½	43½	43½
HH	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
HP	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼

* HD increases ½" when casing with 250# flanges is used with 143-326TS frame sizes.

Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal		
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage			Frame	Enclosure	Insulation	Furnished by	Mounted

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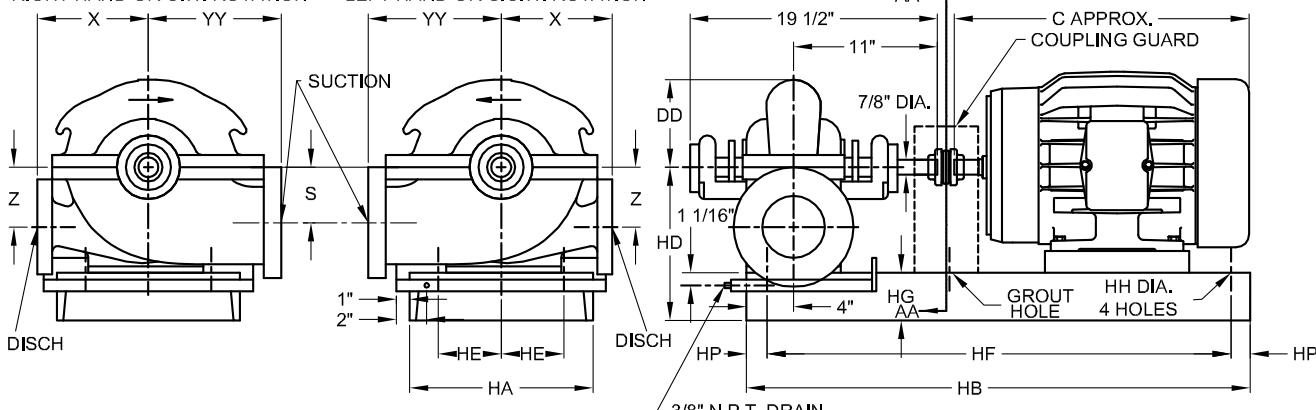


PUMPS WITH TYPE C DRIP LIP STEEL BASE, COUPLING & MOTOR DIMENSIONS — FIGURE 5061

Horizontal Split Case Centrifugal Pumps

AA - VIEW - LOOKING AT SHAFT EXTENSION FROM BEHIND THE DRIVER.
RIGHT HAND OR CLOCKWISE ROTATION FURNISHED UNLESS OTHERWISE SPECIFIED.

RIGHT HAND OR C.W. ROTATION LEFT HAND OR C.C.W. ROTATION



RH/Clockwise rotation is furnished unless otherwise specified.

PUMP	SUCT	DISCH	DD	YY	S	X	Z
2 x 1½ x 8	2	1½	5	7	3¼	6½	3¼
*3 x 2 x 8	3	2	5½	7	3¼	6½	3¼
3 x 2 x 11	3	2	7½	9	4½	8	4½
3 x 2 x 14	3	2	8¾	10	5½	10	5½
4 x 3 x 9	4+	3	7	9	4	8	4

(*) SIZE 3 x 2 x 8 WITH 250LB FLANGES YY = 7-3/8", X = 6-5/8"

(+) TOP TWO BOLT HOLES OF FLANGE ARE TAPPED.

SIZE	SUCTION & DISCH 125LB ASA FF		SUCTION & DISCH 250LB ASA FF			
	DIA. FLG.	# -BOLTS	B.C.	DIA. FLG.	BOLTS	B.C.
1½	5	4 - ½	3⅓	6⅓	4 - ¾	4⅓
2	6	4 - ½	4⅔	6⅓	8 - ½	5
3	7½	4 - ½	6	8⅓	8 - ¾	6⅓
4	9	8 - ½	7½	10	8 - ¾	7⅓

BASE DIMENSIONS IN INCHES																				
FRAME NO	143T	145T	182T	184T	213T	215T	254T	256T	284T	284TS	286T	286TS	324T	324TS	326T	326TS	364T	364TS	365T	365TS
BASE NO.	27501	27501	27502	27502	27503	27503	27504	27504	27504	27504	27505	27504	27507	27507	27507	27507	27507	27507	27507	
C	13½	13½	14½	15½	17½	19½	22½	24½	25½	24½	27½	26	28½	27½	30½	28½	33½	31	34½	32
HA	12	12	12	12	12	12	15	15	15	15	15	15	18	18	18	18	18	18	18	
HB	28	28	32	32	32	36	40	40	40	40	43	40	46	46	46	46	46	46	46	
HD 2x1-1/2x8	9½	9½	9½	9½	9½	9½	9½	9½	10½	10½	10½	10½	12	12	12	12	13	13	13	
HD 3x2x8	9¾	9¾	9¾	9¾	9¾	9¾	9¾	10%	10%	10%	10%	10%	12	12	12	12	13	13	13	
HD * 3x2x11	11	11	11	11	11	11	11½	11½	11½	11½	11½	11½	12	12	12	12	13	13	13	
HD 3x2x14	12	12	12	12	12	12	12½	12½	12½	12½	12½	12½	13	13	13	13	13	13	13	
HD 4x3x9	11	11	11	11	11	11	11½	11½	11½	11½	11½	11½	12½	12½	12½	12½	13	13	13	
HG	3	3	3	3	3	3	3¾	3¾	3¾	3¾	3¾	3¾	4	4	4	4	4	4	4	
HE	4¾	4¾	4¾	4¾	4¾	4¾	6	6	6	6	6	6	7½	7½	7½	7½	7½	7½	7½	
HE 4x3x9	4¾	4¾	4¾	4¾	4¾	4¾	6	6	6	6	6	6	6½	6½	6½	6½	7½	7½	7½	
HF	25½	25½	29½	29½	29½	33½	37½	37½	37½	37½	40½	37½	43½	43½	43½	43½	43½	43½	43½	
HH	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	
HP	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	

* HD increases ½" when casing with 250# flanges is used with 143-326TS frame sizes.

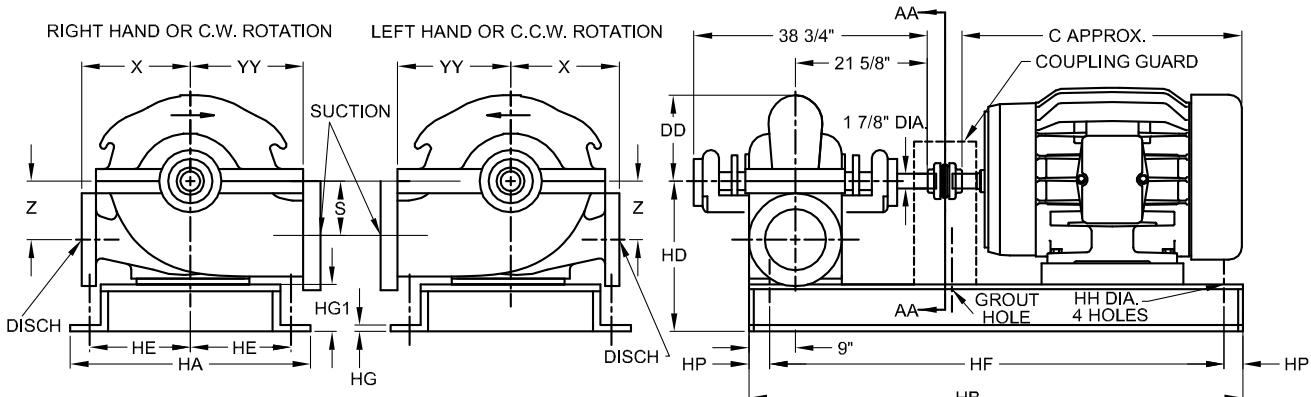
Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation		Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage			Frame	Enclosure	Insulation	Furnished by	Mounted



PUMPS WITH TYPE B STEEL BASE, COUPLING & MOTOR DIMENSIONS – FIGURE 5064L

Horizontal Split Case Centrifugal Pumps

AA - VIEW - LOOKING AT SHAFT EXTENSION FROM BEHIND THE DRIVER
RIGHT HAND OR CLOCKWISE ROTATION FURNISHED UNLESS OTHERWISE SPECIFIED.



RH/Clockwise rotation is furnished unless otherwise specified.

PUMP	SUCT	DISCH	DD	YY	S	X	Z
14x12x14½	14	12	14½	26	14	22	12¾

SIZE	SUCTION & DISCH 125LB ASA FF			SUCTION & DISCH 250LB ASA FF		
	DIA. FLG.	# -BOLTS	B.C.	DIA. FLG.	# -BOLTS	B.C.
12	19	12 - 7/8	17	20½	16 - 1 1/8	17 1/4
14	21	12 - 1	18 1/4	23	20 - 1 1/8	20 1/4

BASE DIMENSIONS IN INCHES																					
FRAME NO.	286T	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS	447T	447TS	449T	449TS
BASE NO.	28451	28451	28451	28451	28451	28452	28452	28452	28452	27516	27516	27516	27516	27516	27516	27516	27516	27516	27516	41861	41861
C	27 1/8	28 1/8	27 1/4	30 1/8	28 1/8	33 1/8	31	34 1/8	32	37 1/8	34 1/8	38 1/8	36	42 1/8	38 1/8	44 1/8	40 1/8	43 1/8	39 1/8	46 1/8	44 1/8
HA	25	25	25	25	25	27	27	27	27	30	30	30	30	30	30	30	30	30	30	30	30
HB	57	57	57	57	57	62	62	62	62	70	70	70	70	70	70	70	70	70	70	80	80
HD	30 1/4	30 1/4	30 1/4	30 1/4	30 1/4	30 1/4	30 1/4	30 1/4	30 1/4	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	31 1/2	
14x12x14½																					
HG1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	5
HG	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	--	--
HE	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	12 1/4	12 1/4	12 1/4	12 1/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 3/4	13 1/2	13 1/2
HF	54	54	54	54	54	59	59	59	59	66	66	66	66	66	66	66	66	66	66	77	77
HH	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	1	1
HP	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2	2	2	2	2	2	2	1 1/2	1 1/2

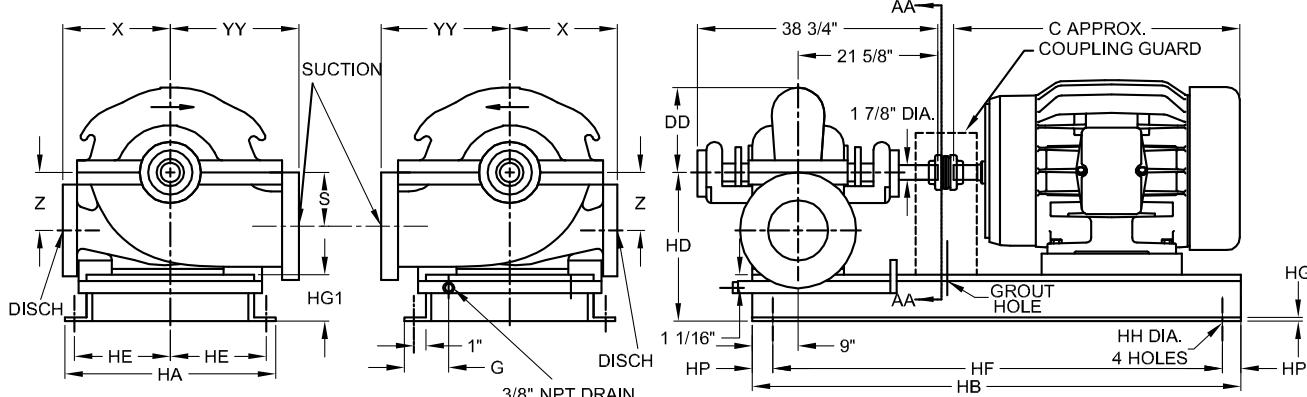
Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal		
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage			Frame	Enclosure	Insulation	Furnished by	Mounted

PUMPS WITH TYPE C DRIP LIP STEEL BASE, COUPLING & MOTOR DIMENSIONS — FIGURE 5064L

Horizontal Split Case Centrifugal Pumps

AA - VIEW - LOOKING AT SHAFT EXTENSION FROM BEHIND THE DRIVER
RIGHT HAND OR CLOCKWISE ROTATION FURNISHED UNLESS OTHERWISE SPECIFIED.

RIGHT HAND OR C.W. ROTATION LEFT HAND OR C.C.W. ROTATION



RH/Clockwise rotation is furnished unless otherwise specified.

PUMP	SUCT	DISCH	DD	YY	S	X	Z
14x12x14½	14	12	14½	26	14	22	12¾

SIZE	SUCTION & DISCHARGE 125LB ASA FF		SUCTION & DISCHARGE 250LB ASA FF			
	DIA. FLG.	# -BOLTS	B.C.	DIA. FLG.	# -BOLTS	B.C.
12	19	12 - 7/8	17	20½	16 - 1½	17¾
14	21	12 - 1	18¾	23	20 - 1½	20¼

BASE DIMENSIONS IN INCHES

FRAME NO	286T	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS	444T	444TS	445T	445TS	447T	447TS	449T	449TS
BASE NO.	28451	28451	28451	28451	28451	28452	28452	28452	28452	27516	27516	27516	27516	27516	27516	27516	27516	27516	27516	27516	27516
C	27¾	28¾	27¼	30¼	28¾	33⅛	31	34⅛	32	37¼	34⅔	38⅓	36	42⅔	38⅔	44⅔	40⅔	43⅔	39⅔	46⅔	44⅔
HA	25	25	25	25	25	27	27	27	27	30	30	30	30	30	30	30	30	30	30	30	30
HB	57	57	57	57	57	62	62	62	62	70	70	70	70	70	70	70	70	70	70	70	80
HD	30¾	30¾	30¾	30¾	30¾	30¾	30¾	30¾	30¾	31½	31½	31½	31½	31½	31½	31½	31½	31½	31½	31½	31
14x12x14½																					
G	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	15
HG1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
HG	¾	¾	¾	¾	¾	½	½	½	½	½	½	½	½	½	½	½	½	½	½	½	--
HE	11¼	11¼	11¼	11¼	11¼	12½	12½	12½	12½	13¾	13¾	13¾	13¾	13¾	13¾	13¾	13¾	13¾	13¾	13¾	13½
HF	54	54	54	54	54	59	59	59	59	66	66	66	66	66	66	66	66	66	66	66	77
HH	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	1
HP	1½	1½	1½	1½	1½	1½	1½	1½	1½	2	2	2	2	2	2	2	2	2	2	1½	1½

Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal		
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage			Frame	Enclosure	Insulation	Furnished by	Mounted



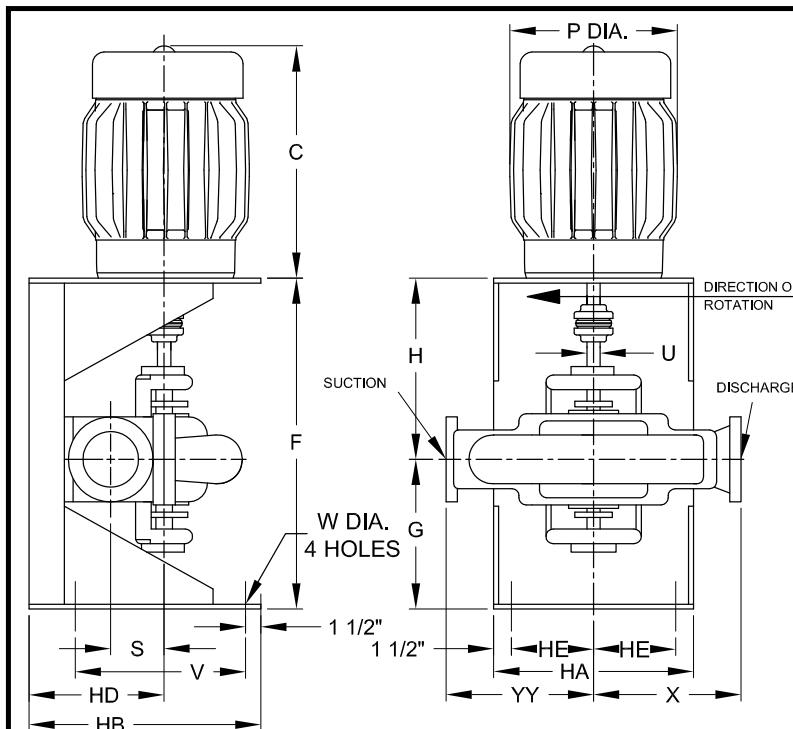
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VERTICAL MOUNTED SPLIT CASE PUMPS — FIGURE 5060

Horizontal Split Case Centrifugal Pumps



The technical drawing illustrates a vertical mounted split case pump. It shows two views: a front view with dimensions C, F, and P DIA.; and a side view with dimensions H, G, W DIA. (4 HOLES), S, V, HD, HB, HE, HA, YY, X, and YY. An arrow indicates the DIRECTION OF ROTATION. The side view also shows internal components like the impeller and shaft.

SIZE	SUCTION & DISCH 125LB ASA FF			SUCTION & DISCH 250LB ASA FF		
	DIA.	# -BOLTS	B.C.	DIA.	# -BOLTS	B.C.
1½	5	4 - ½	3⅓	6⅓	4 - ¾	4½
2	6	4 - %	4⅔	6⅔	8 - %	5
3	7½	4 - %	6	8⅔	8 - ¾	6⅔
4	9	8 - %	7½	10	8 - ¾	7⅔
6	11	8 - %	9½	12½	12 - %	10%
8	13½	8 - %	11¼	15	12 - ¾	13
10	16	12 - %	14¼	17½	16 - 1	15½
12	19	12 - %	17	20½	16 - 1½	17½
14	21	12 - 1	18¾	23	20 - 1½	20½

RIGHT HAND OR CLOCKWISE ROTATION FURNISHED UNLESS OTHERWISE SPECIFIED.

(+) TOP 2 BOLT HOLES OF FLANGE ARE TAPPED.
(*) SIZE 3x2x8 WITH 250 LB FLANGES.
YY DIM. IS 7-3/8", X DIM IS 6-5/8".
(▲) TOP 6 BOLT HOLES OF FLANGE ARE TAPPED.
(■) DISCHARGE FLANGES ARE 250 LB FLANGE.

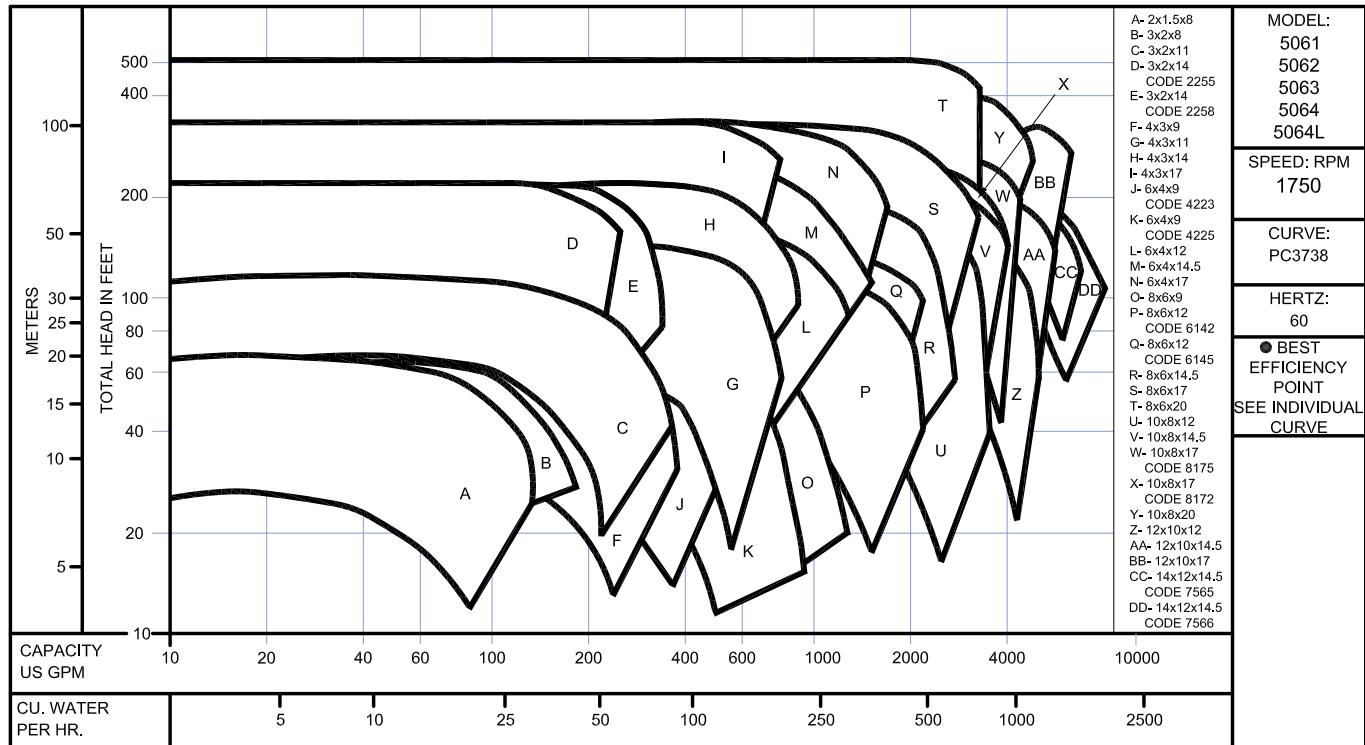
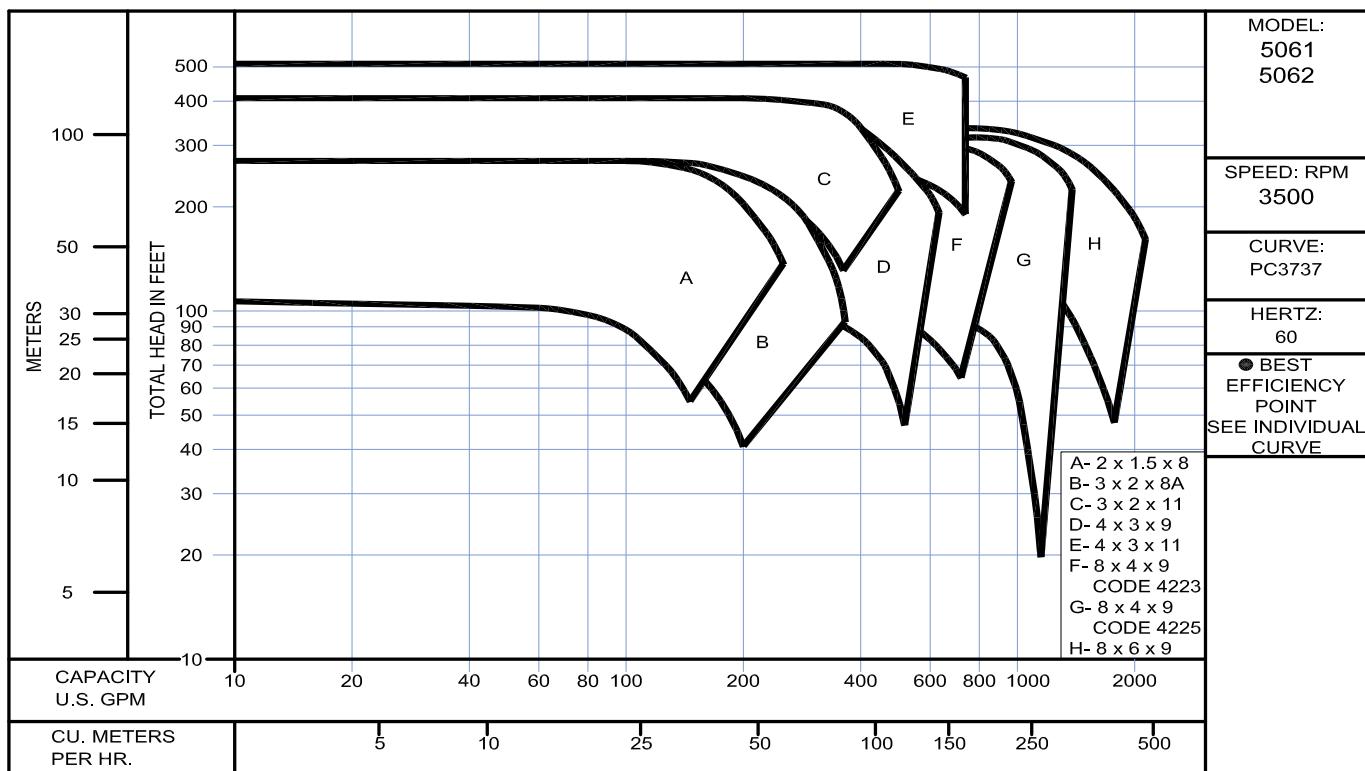
FIG.	SUCT.	DISCH.	MAX. IMP. DIA.	HA	HB	HD	HE	F	G	H	S	X	YY	U	V	W	PUMP WT.	BASE WT.												
5061	2	1½	8	15	19	12½	6	27	12	15	3¼	6½	7	1/8	16	%	117	210												
	3*	2	8								3¼	6½	7																	
	3	2	11								4½	8	9																	
	3	2	14								5½	10	10																	
	4+	3	9								4	8	9																	
5062	4+	3+	11	15	24½	14½	6	31%	14	17%	4¾	8½	10	1/8	21½	%	248	270												
	4	3	14								5½	11	12																	
	4	3	17								6	12	13																	
	6+	4	9								5¼	9	10																	
	6+	4	12								5½	10	11																	
	6+	4	14½								5½	12	13																	
	8+	6+	9								5½	10	11																	
	5063	6+	4								17	18	30				18½		7½	36%	16	20%	7	13	14	1/2	27	¾	565	385
8+		6	12	6½	11	13																								
8+		6	14½	6½	13	14																								
8+		6	17	7	14	15																								
10+		8+	12	6½	12	15																								
10+		8+	14½	7¾	13	16																								
8+		6	20	8¼	15	16																								
5064		10+	8+	17	21	34	19½	7½	41%	18¾	22½			7¾	13	16		1/8					31	¾	855				500	
	12+	10	12	7¾								14	17																	
	10+	8	20	10								15	17																	
	12+	10	14½	9								17	18																	
	12▲	10	17	9								17	20																	
	5064L	14	12	14½																10	17	20						1180		

MOTOR DATA			
FRAME	C	P	APPROX. WEIGHT
143TC	10%	7½	30
145TC	11%	7½	34
182TC	12½	9¾	56
184TC	13½	9¾	70
213TC	15%	11¼	141
215TC	16½	11¼	176
254TC	18¾	13½	252
256TC	20½	13½	302
284TC	20¾	14½	335
286TC	21½	14½	365
324TSC	22½	16½	465
326TSC	23½	16½	550
364TSC	27½	18½	734
365TSC	28½	18½	845
404TSC	30½	20½	1026
405TSC	31½	20½	1079
444TSC	34%	23½	1480
445TSC	36%	23½	1586

Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.		Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage			Frame	Enclosure	Insulation	Furnished by	Mounted

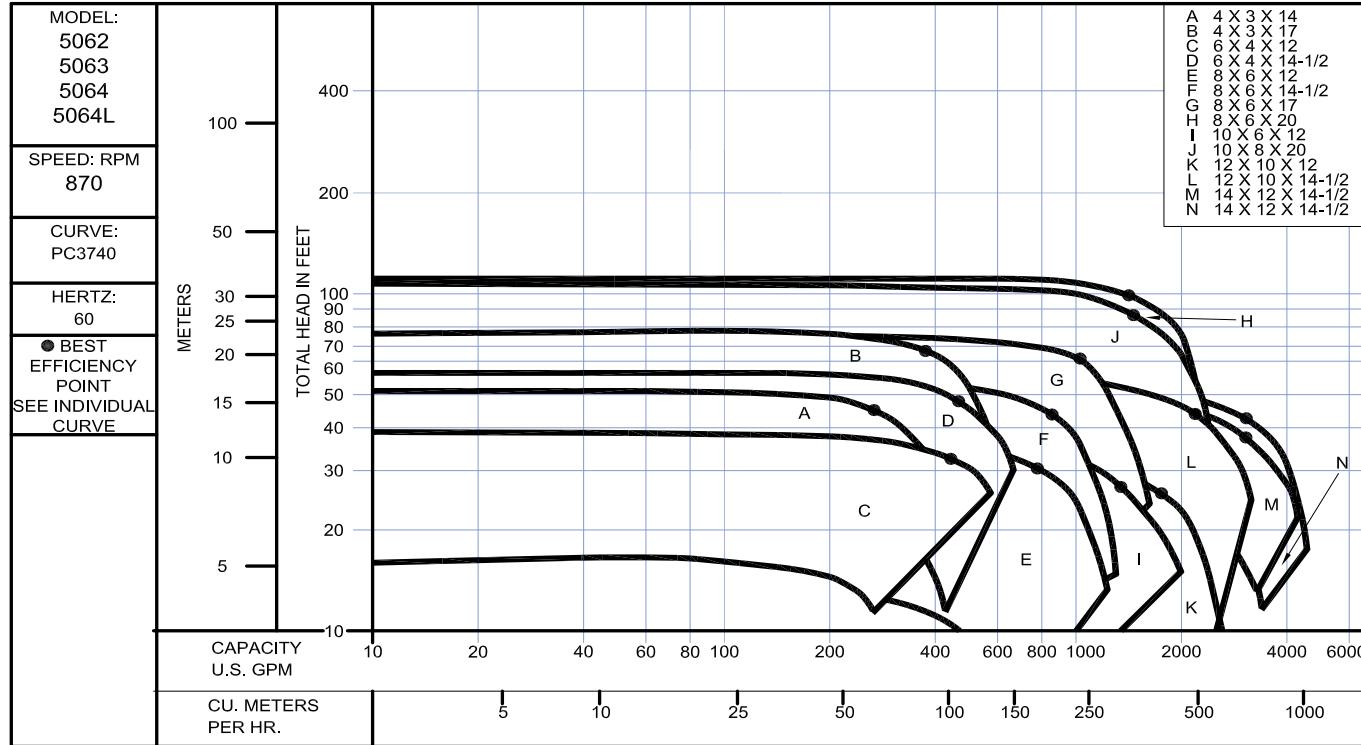
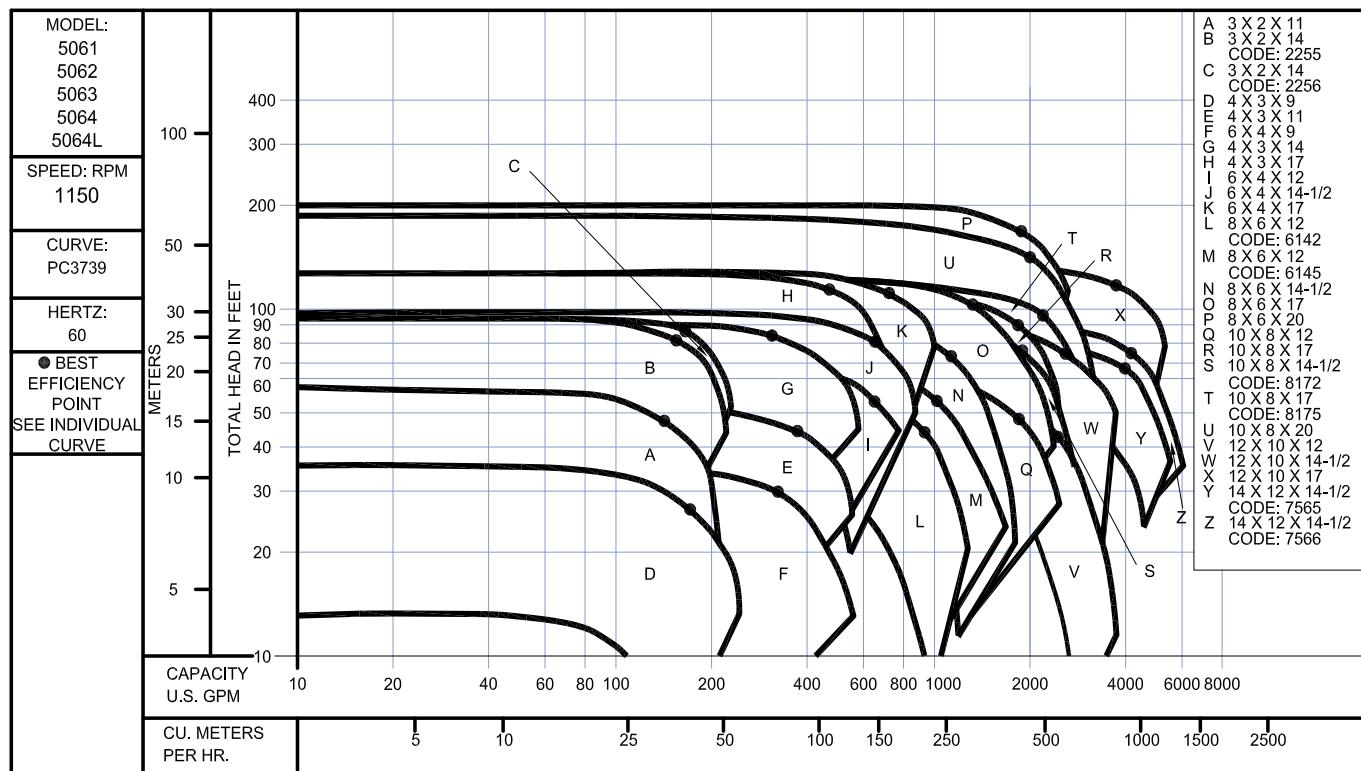
SELECTION CURVES — 3500 & 1750 RPM

Horizontal Split Case Centrifugal Pumps



SELECTION CURVES — 1150 & 870 RPM

Horizontal Split Case Centrifugal Pumps



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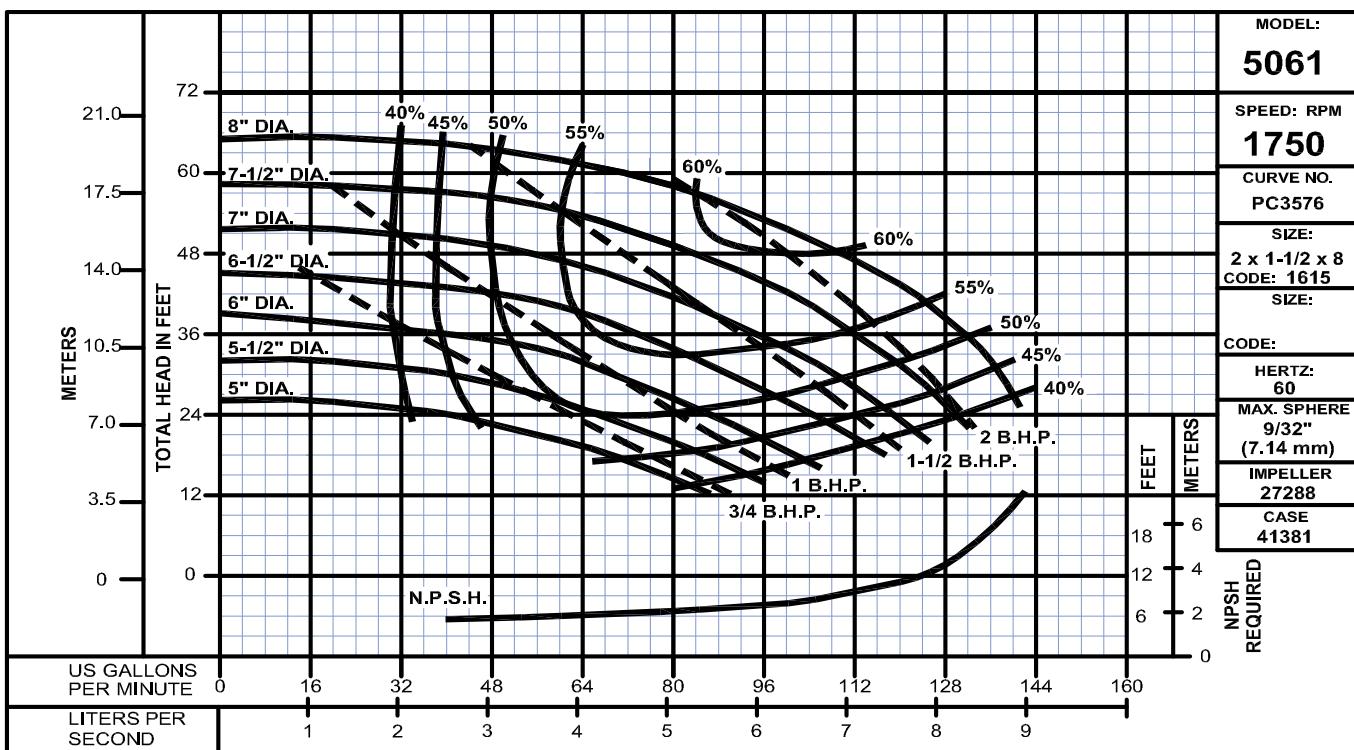
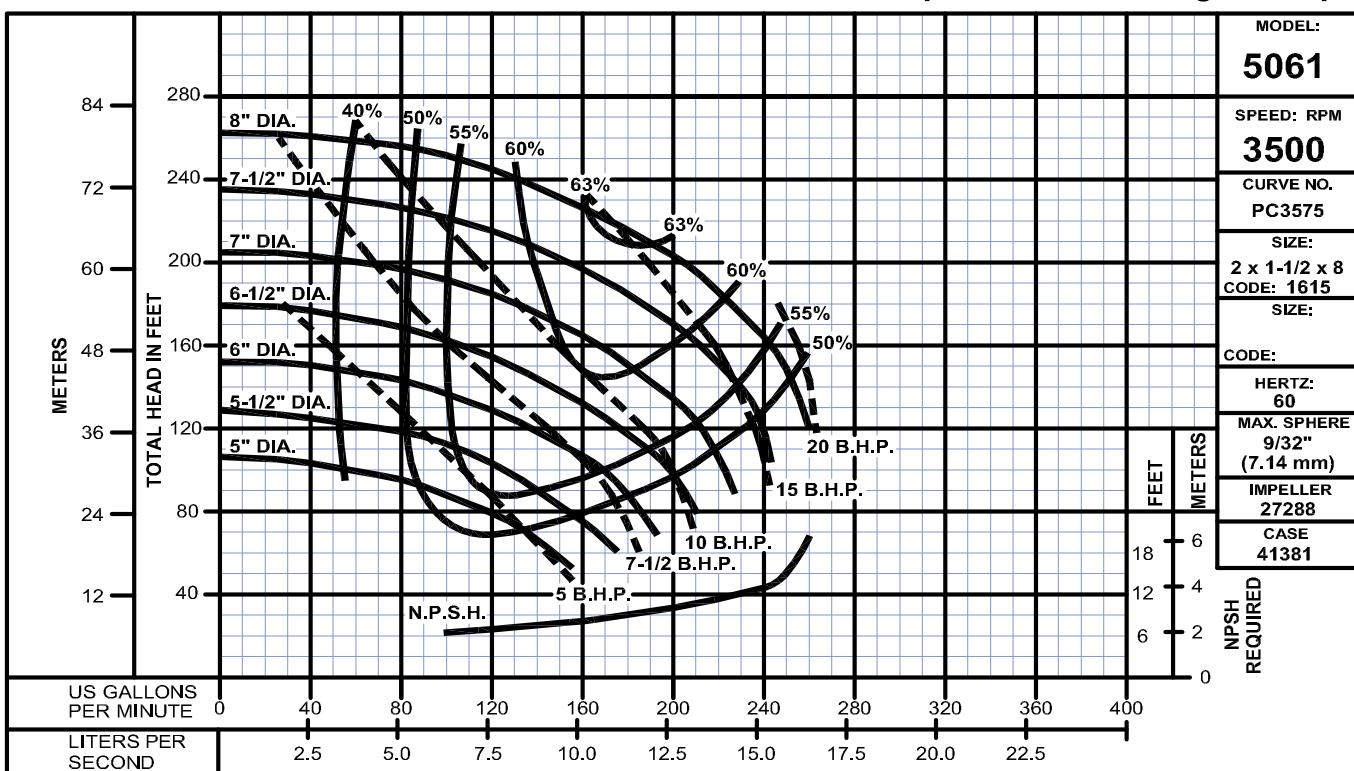
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PERFORMANCE CURVE — FIGURE 5061

SIZES: 2 x 1-1/2 x 8, 3500 & 1750 RPM

Horizontal Split Case Centrifugal Pumps



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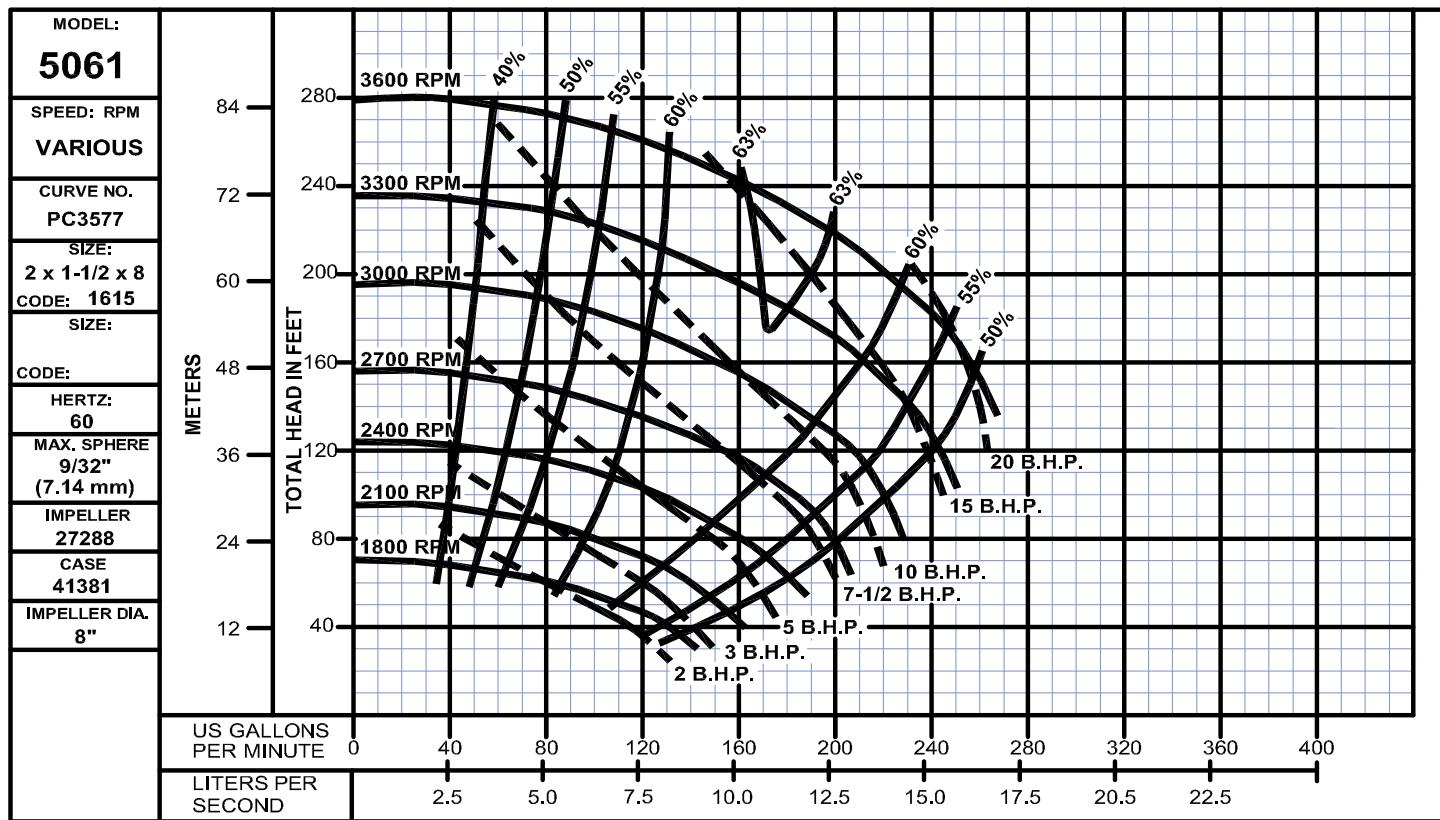
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PERFORMANCE CURVE — FIGURE 5061

SIZES: 2 x 1-1/2 x 8, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Fear is the passion of slaves.”

—Patrick Henry

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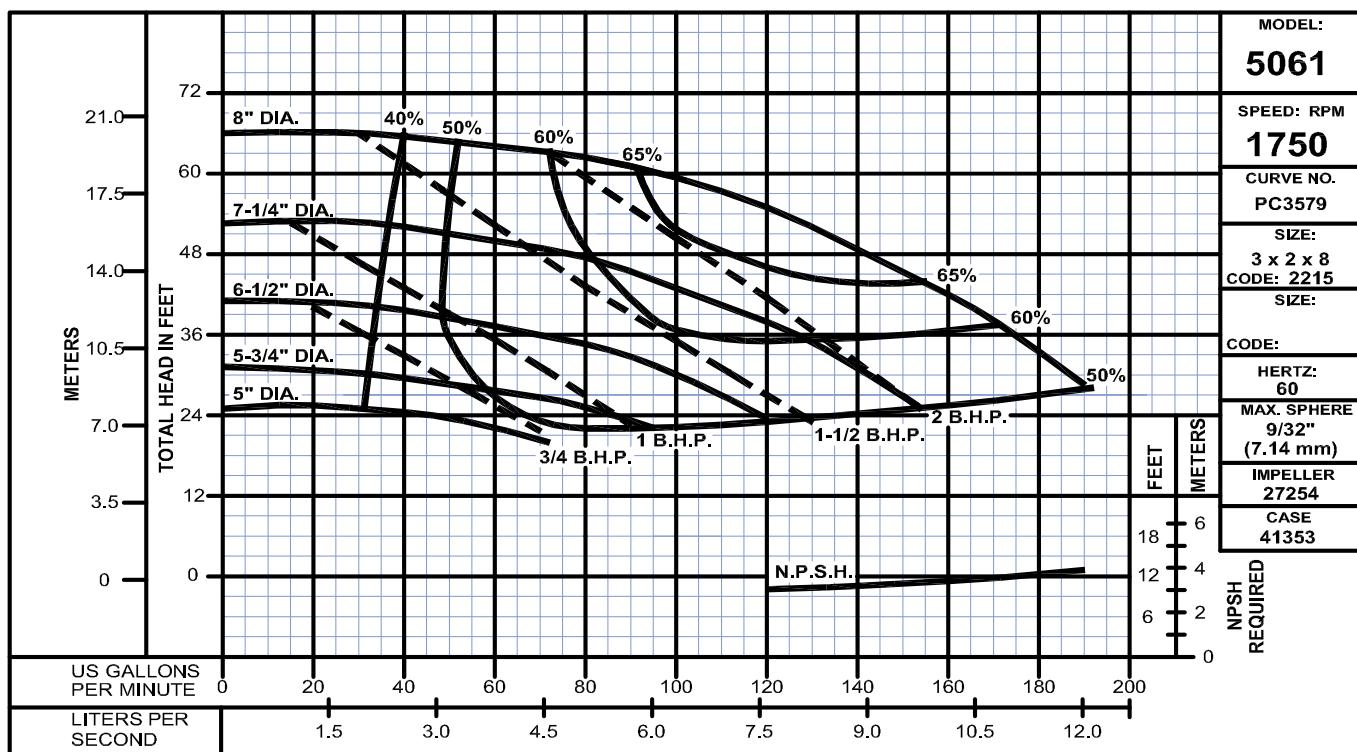
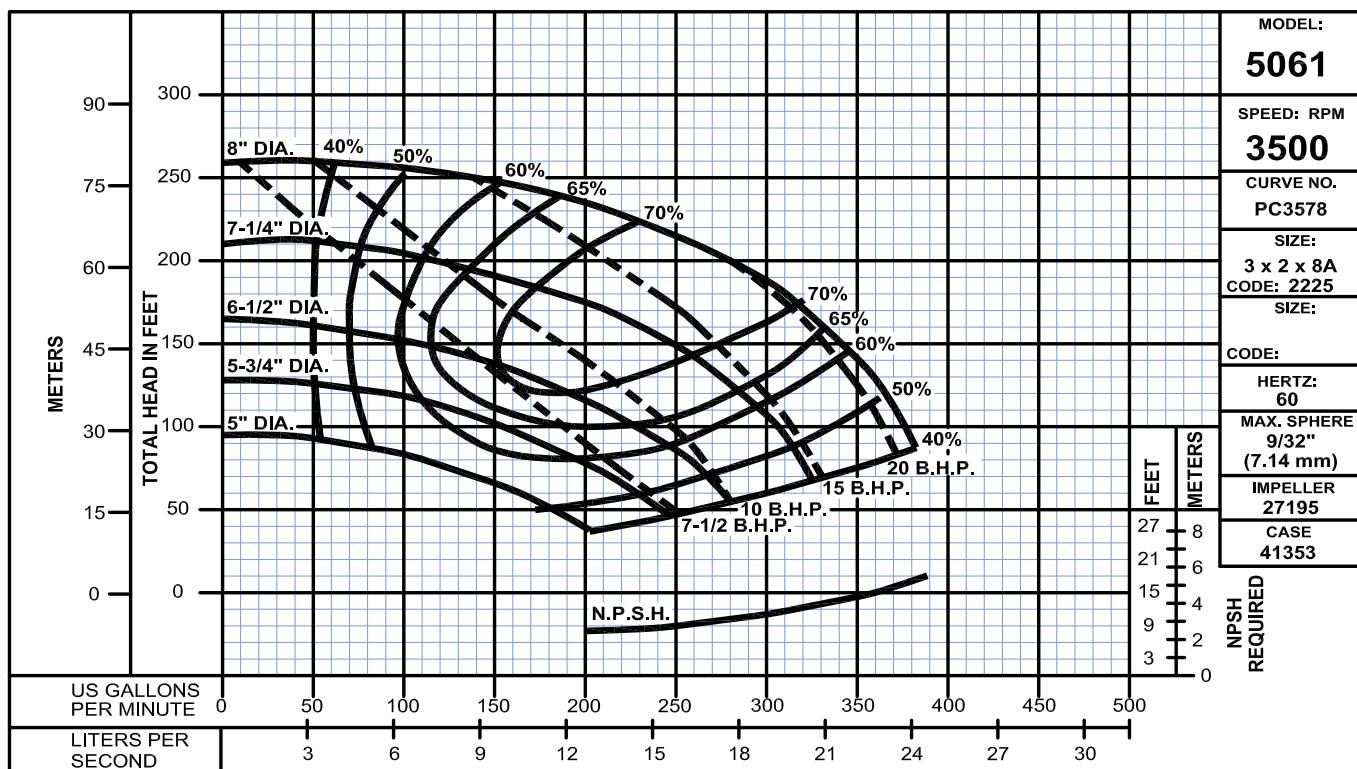
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PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 8, 3500 & 1750 RPM

Horizontal Split Case Centrifugal Pumps

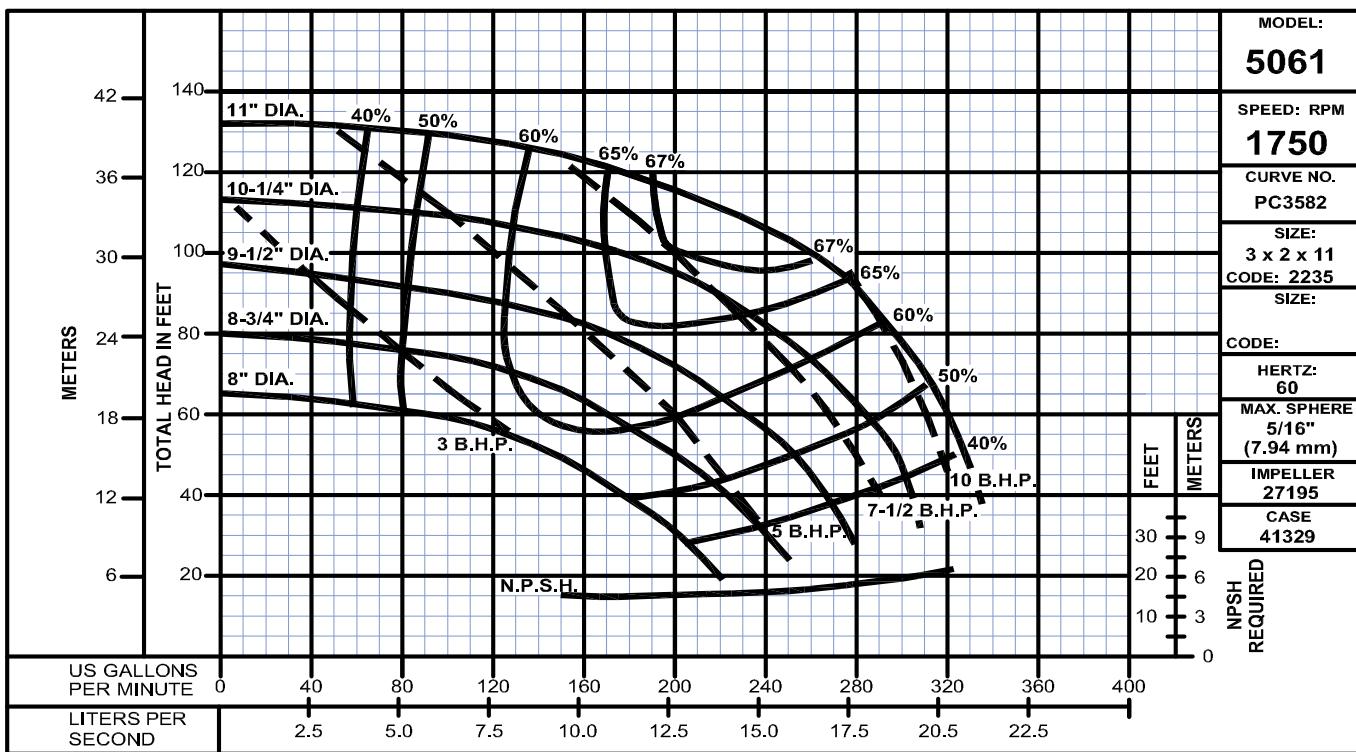
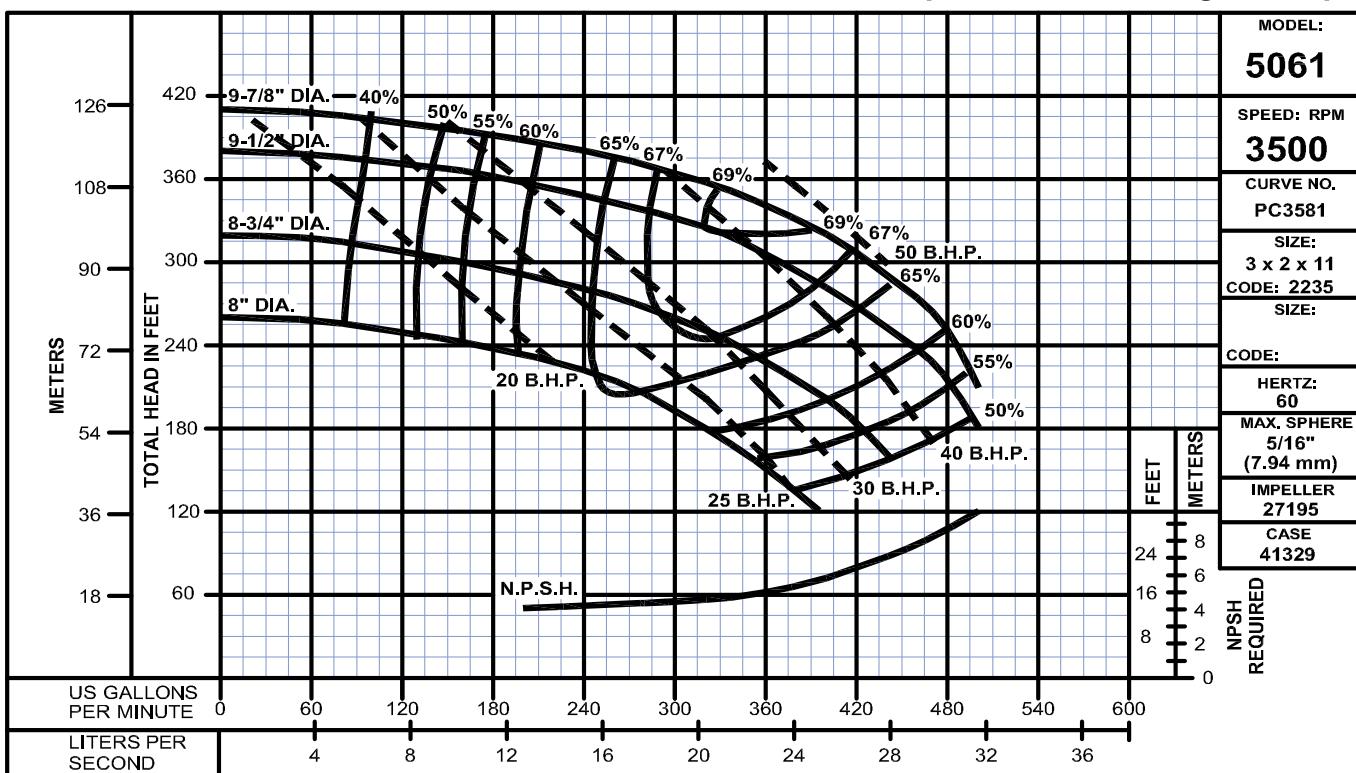


PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 11, 3500 & 1750 RPM

BR

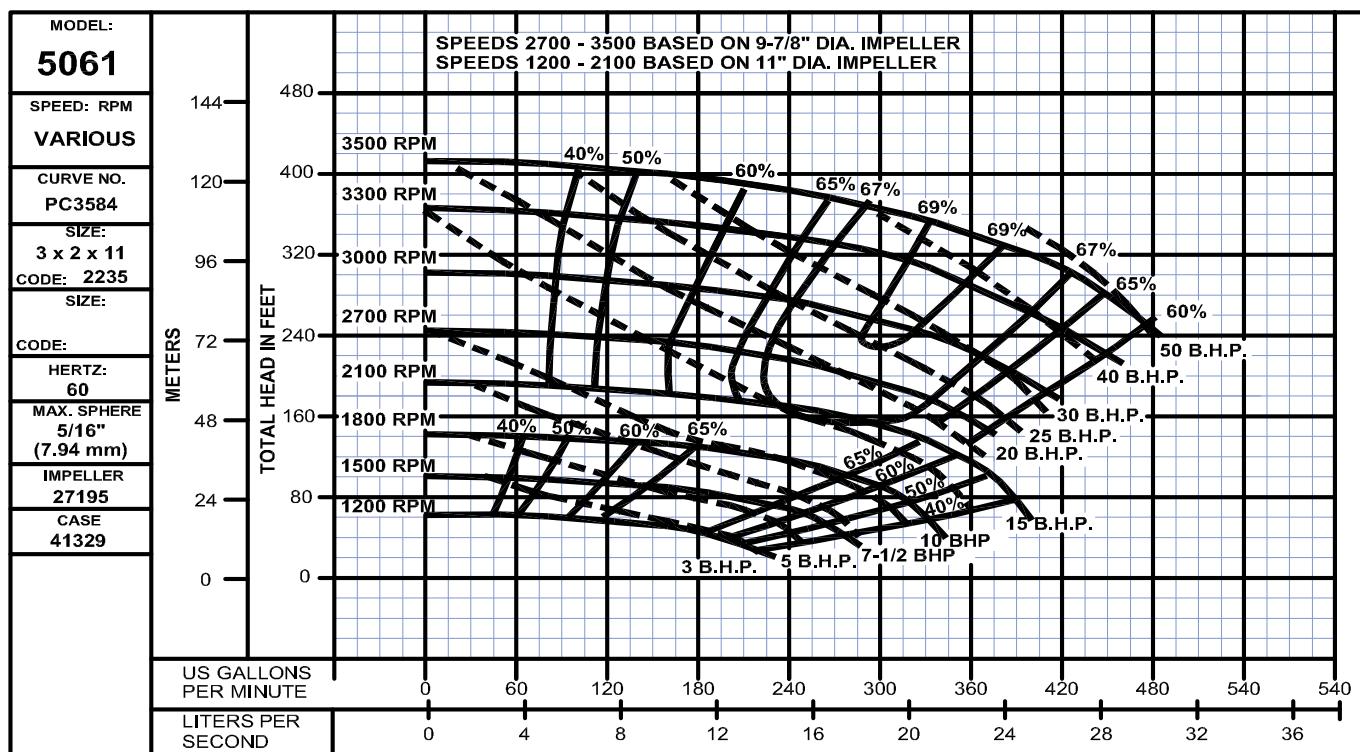
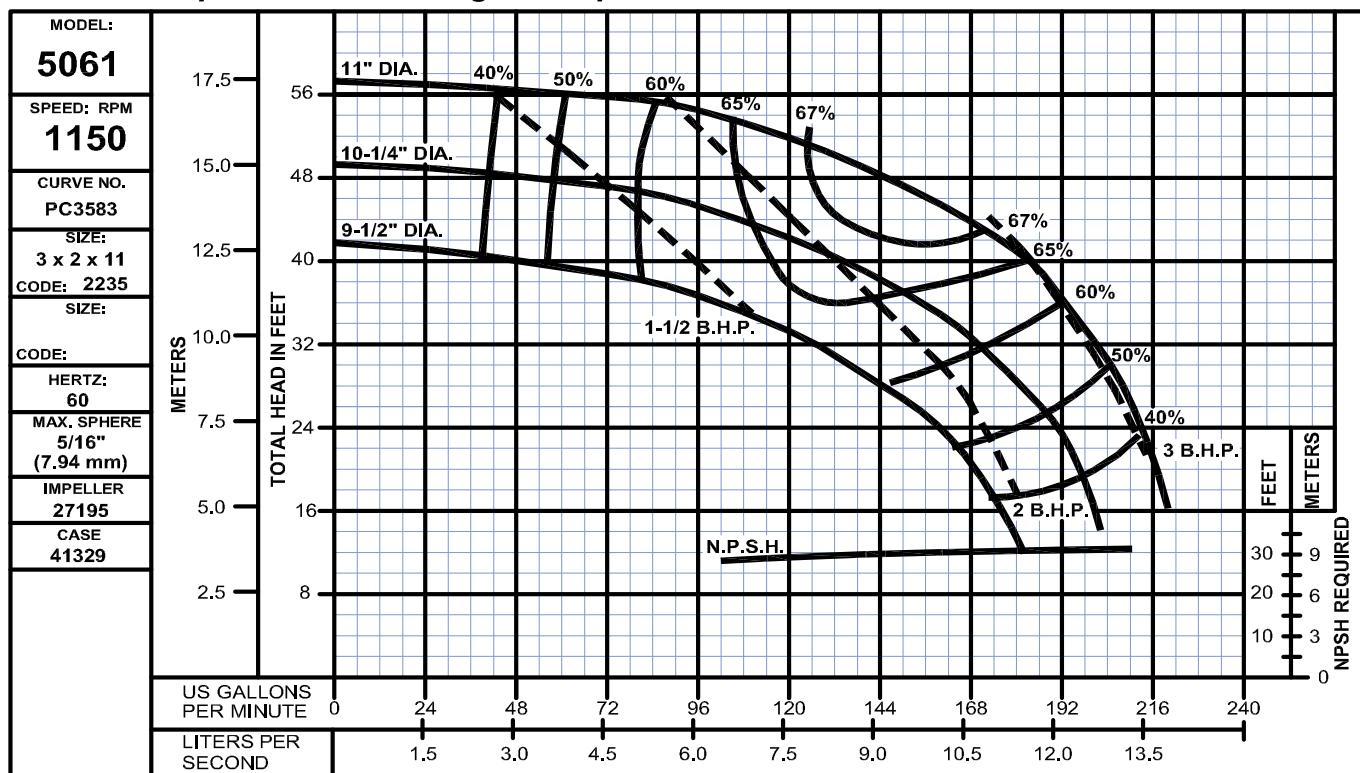
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 11, 1150 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

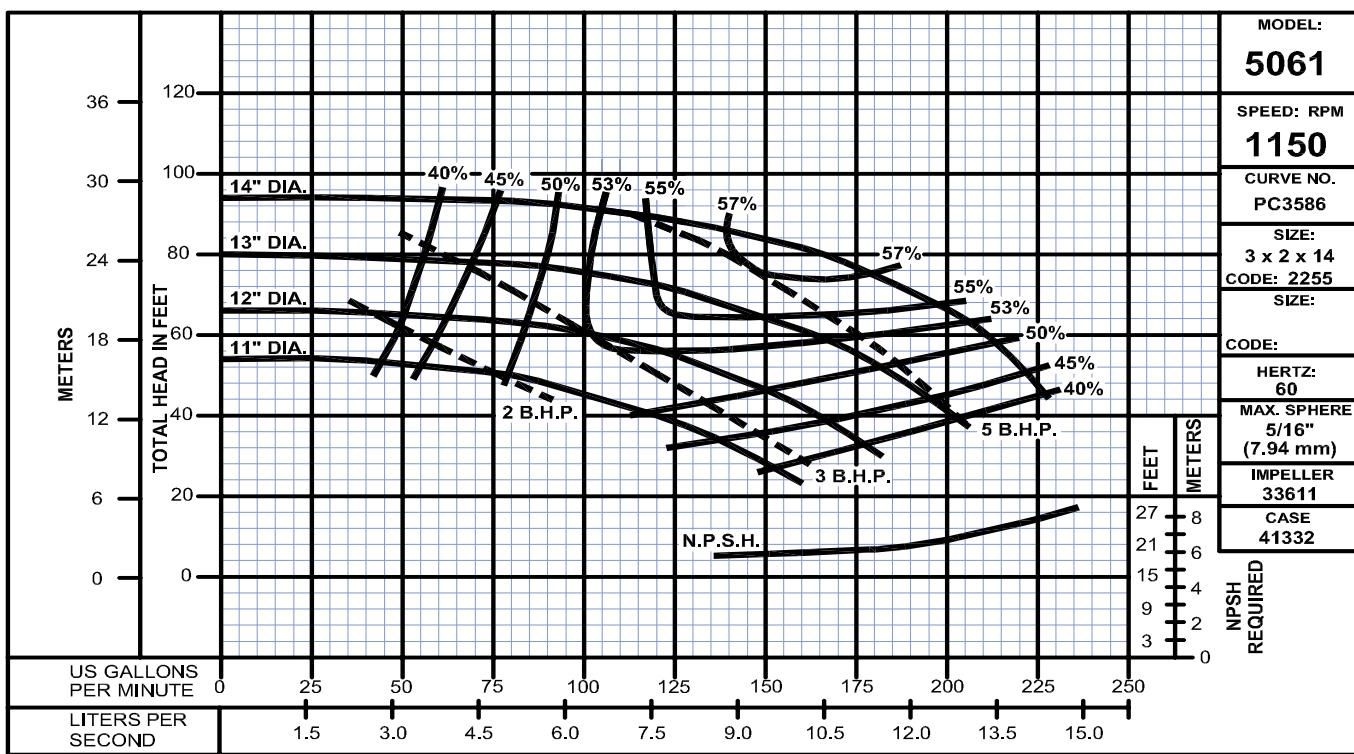
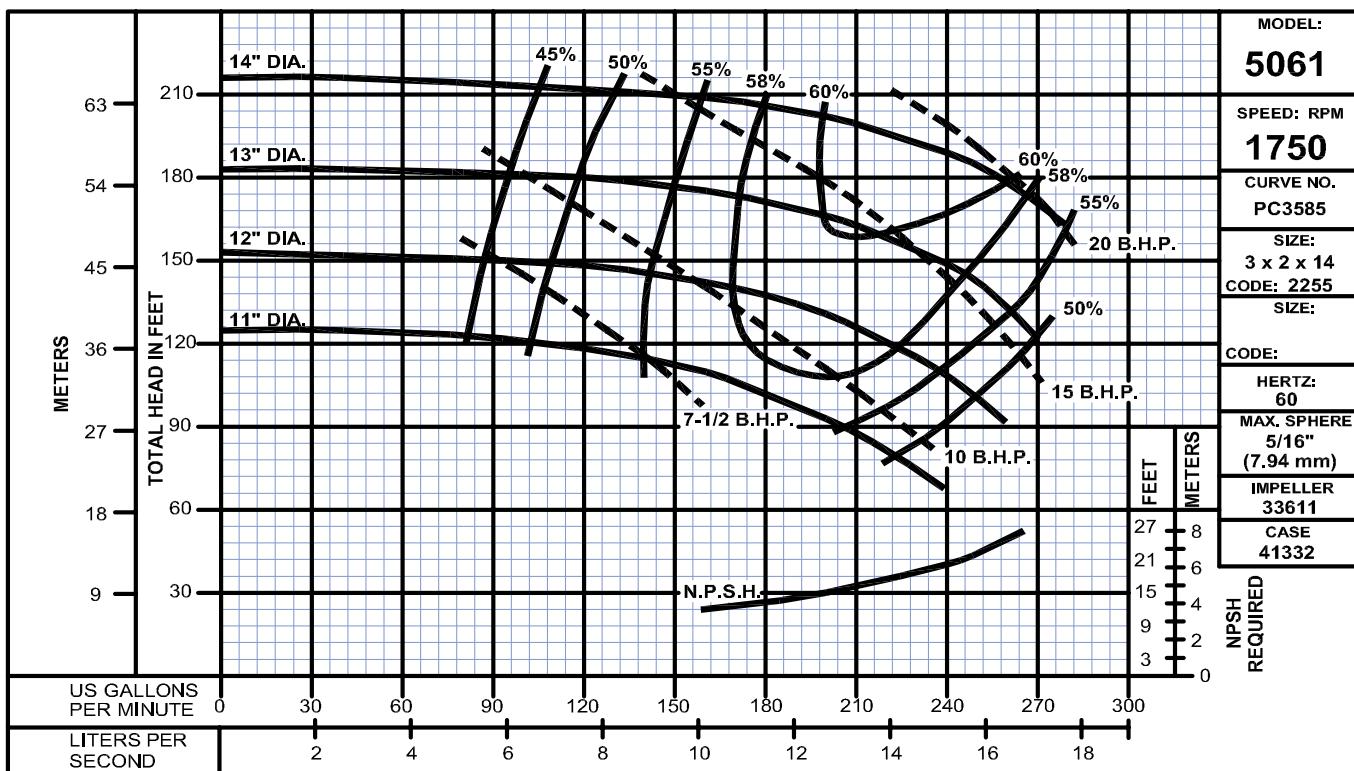


PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 14, 1750 & 1150 RPM

BR

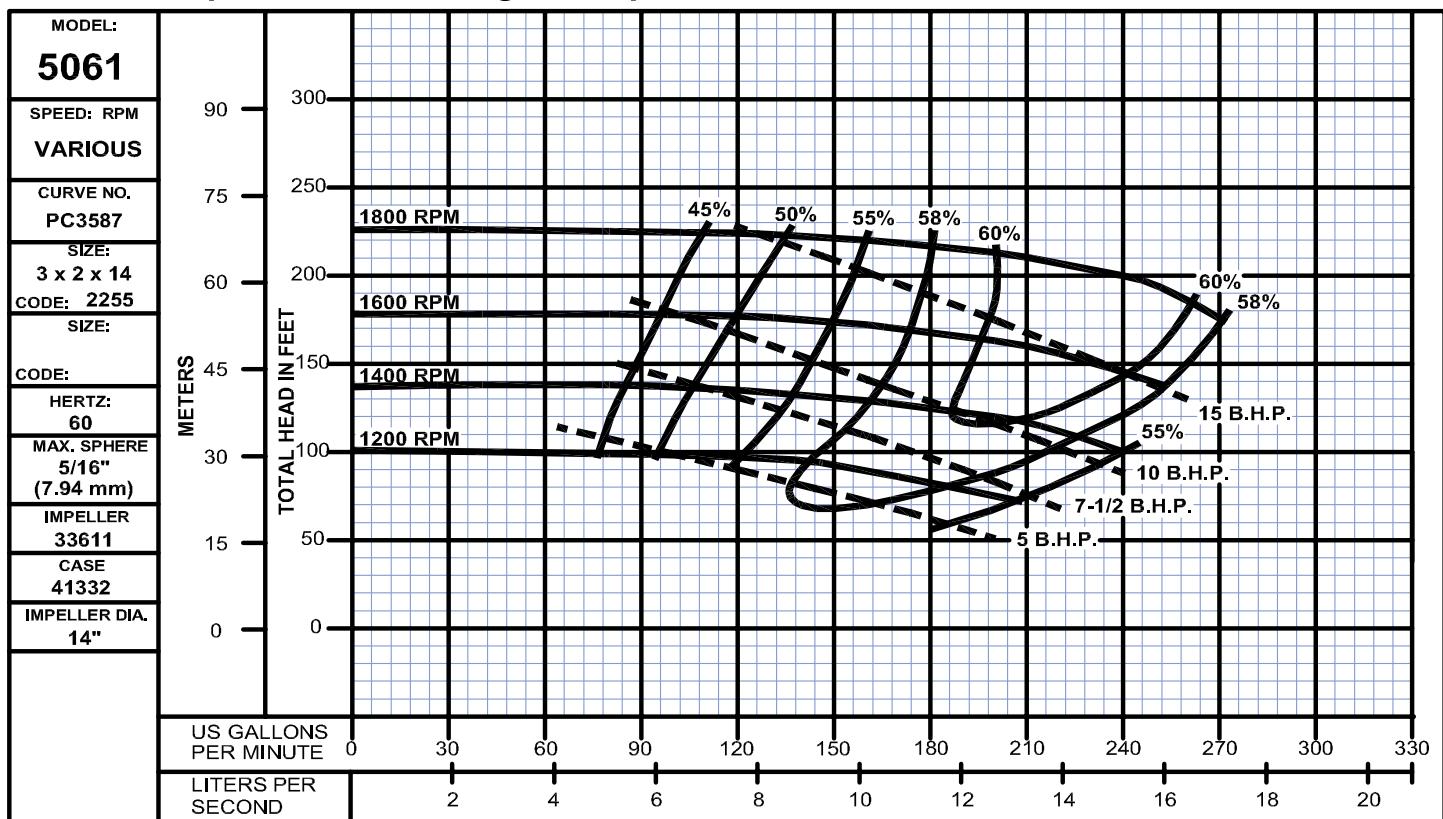
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 14, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Is life so dear, or peace so sweet, as to be purchased at the price of chains and slavery? Forbid it, Almighty God! I know not what course others may take, but as for me, give me liberty or give me death!”

—Patrick Henry

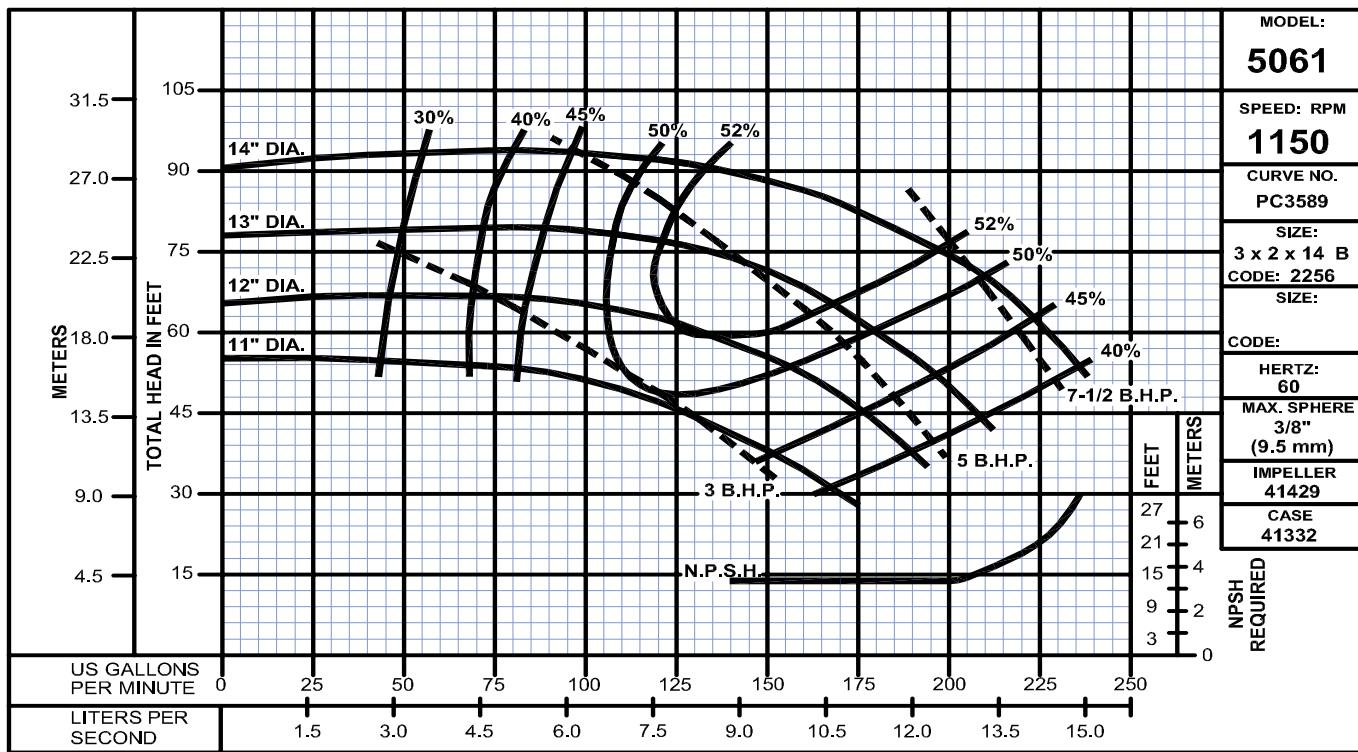
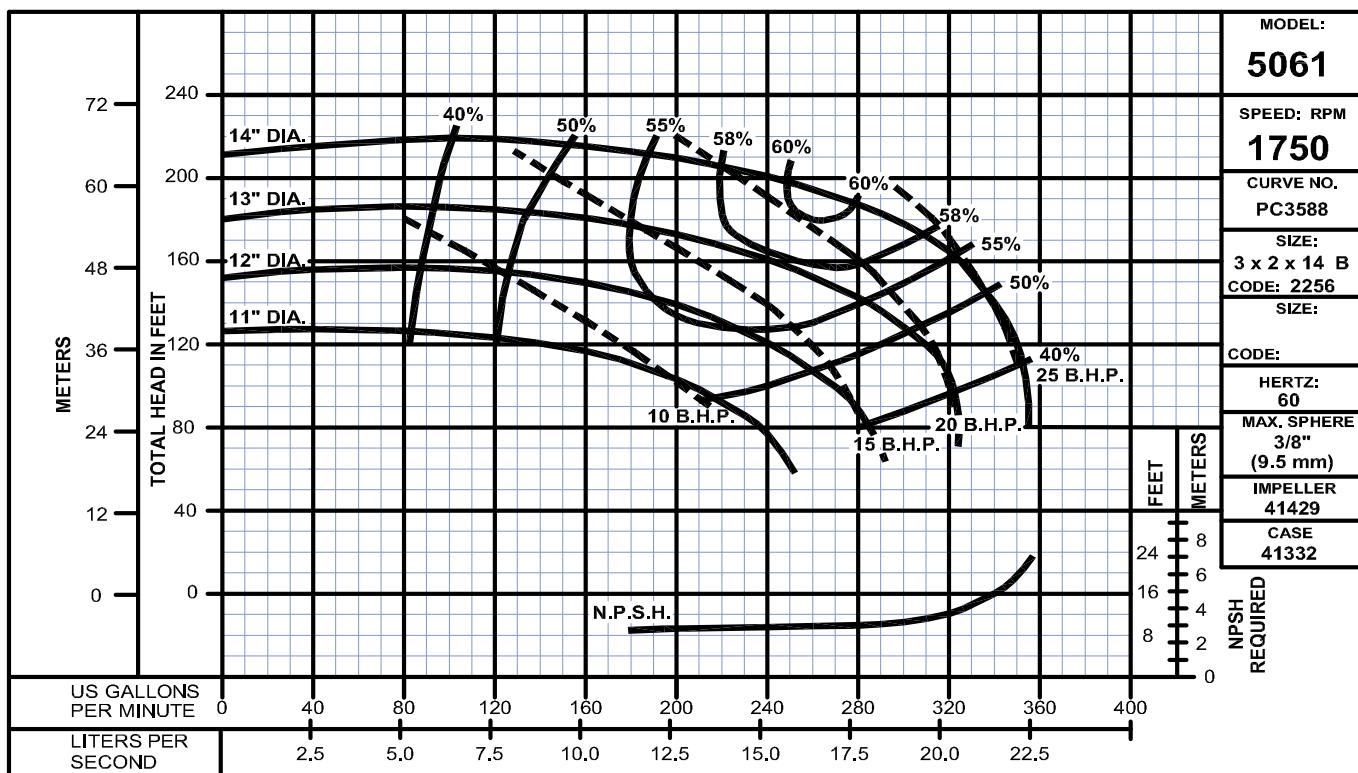


PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 14, 1750 & 1150 RPM

BR

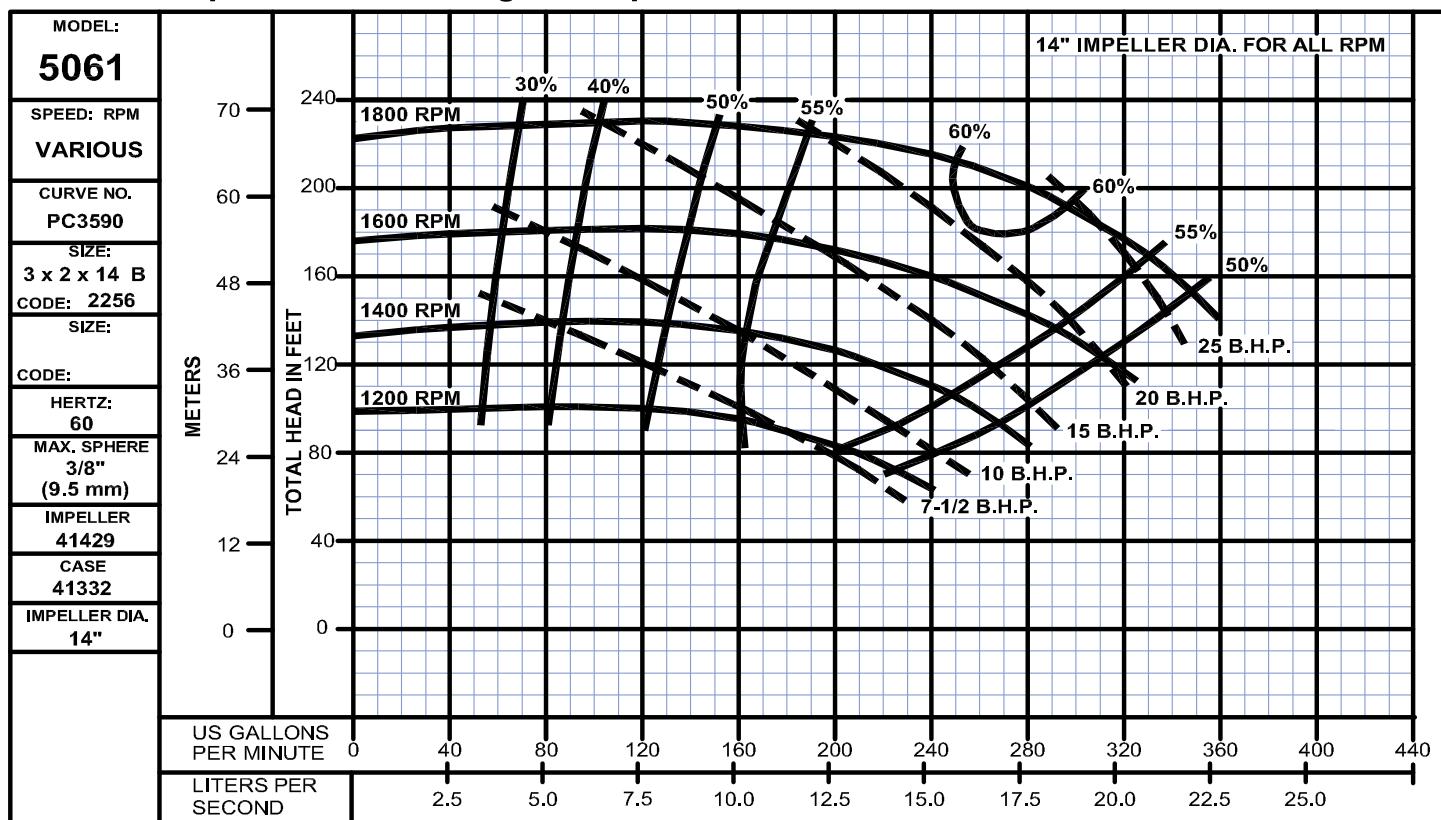
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5061

SIZES: 3 x 2 x 14, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Are we at last brought to such humiliating and debasing degradation, that we cannot be trusted with arms for our defense? Where is the difference between having our arms in possession and under our direction, and having them under the management of Congress? If our defense be the real object of having those arms, in whose hands can they be trusted with more propriety, or equal safety to us, as in our own hands?”

—Patrick Henry

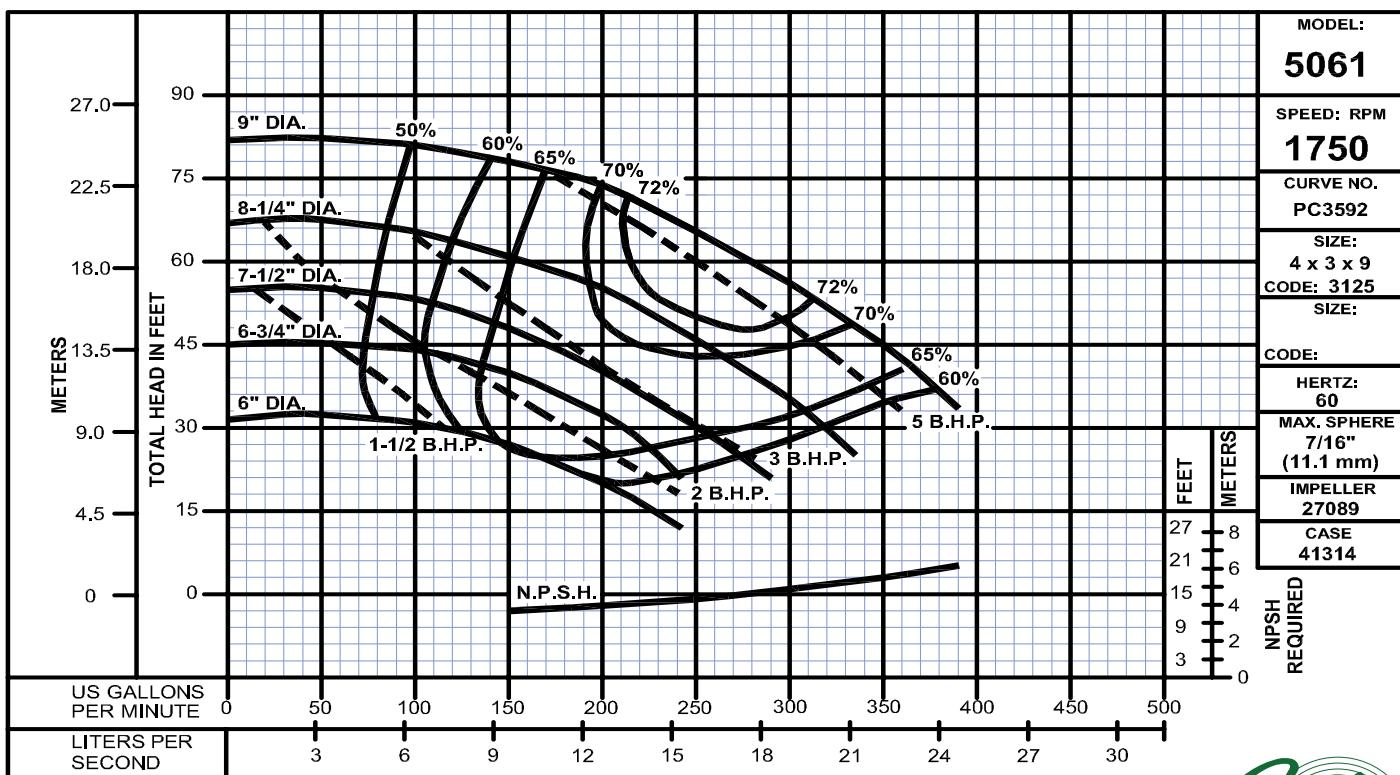
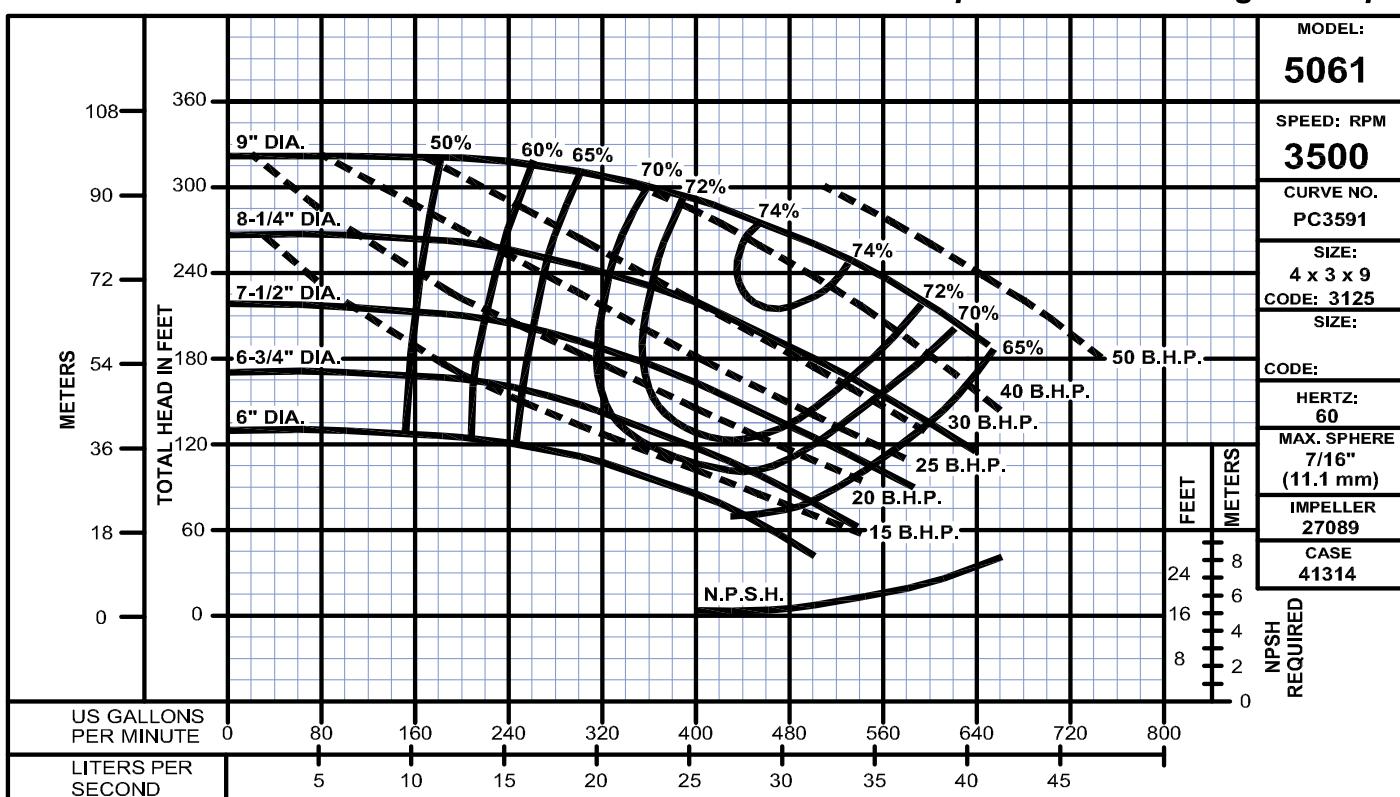


PERFORMANCE CURVE — FIGURE 5061

SIZES: 4 x 3 x 9, 3500 & 1750 RPM

BR

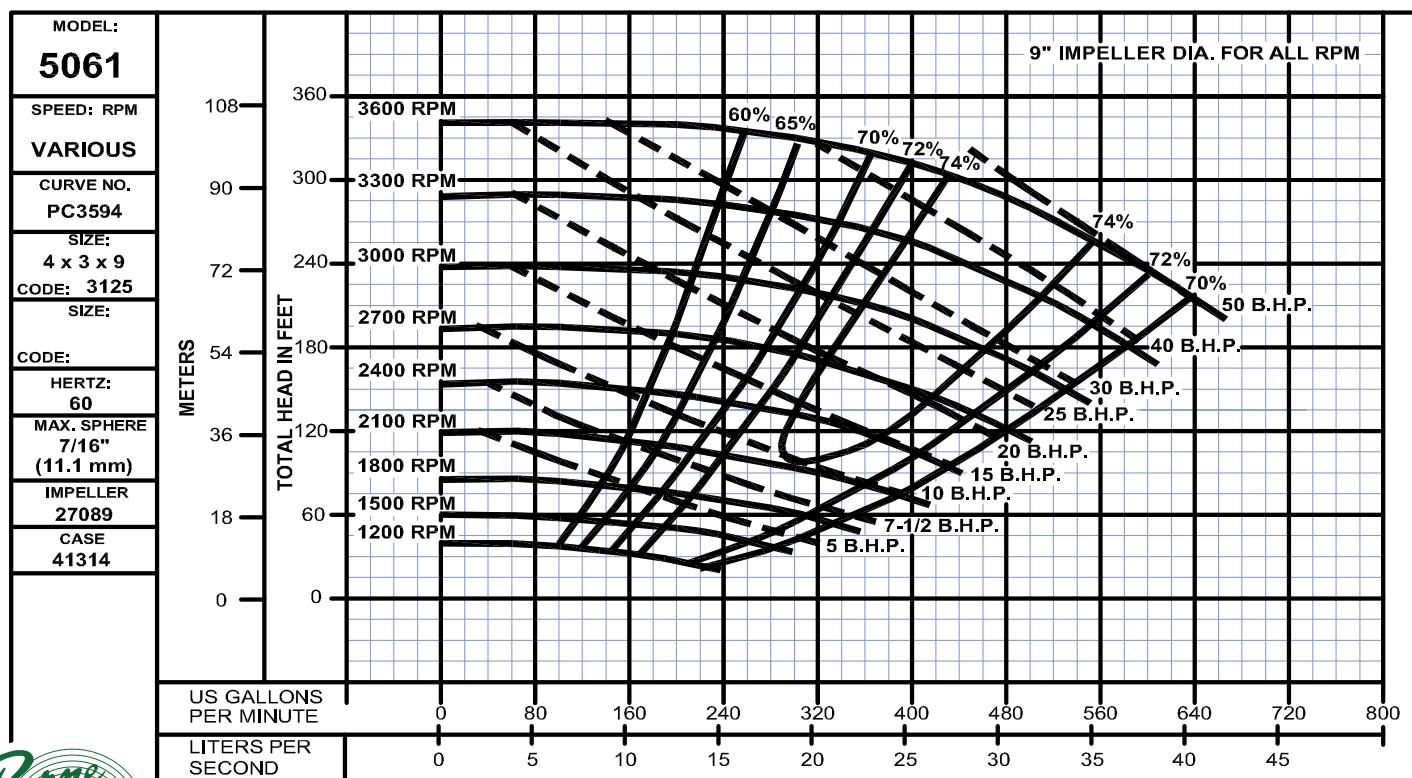
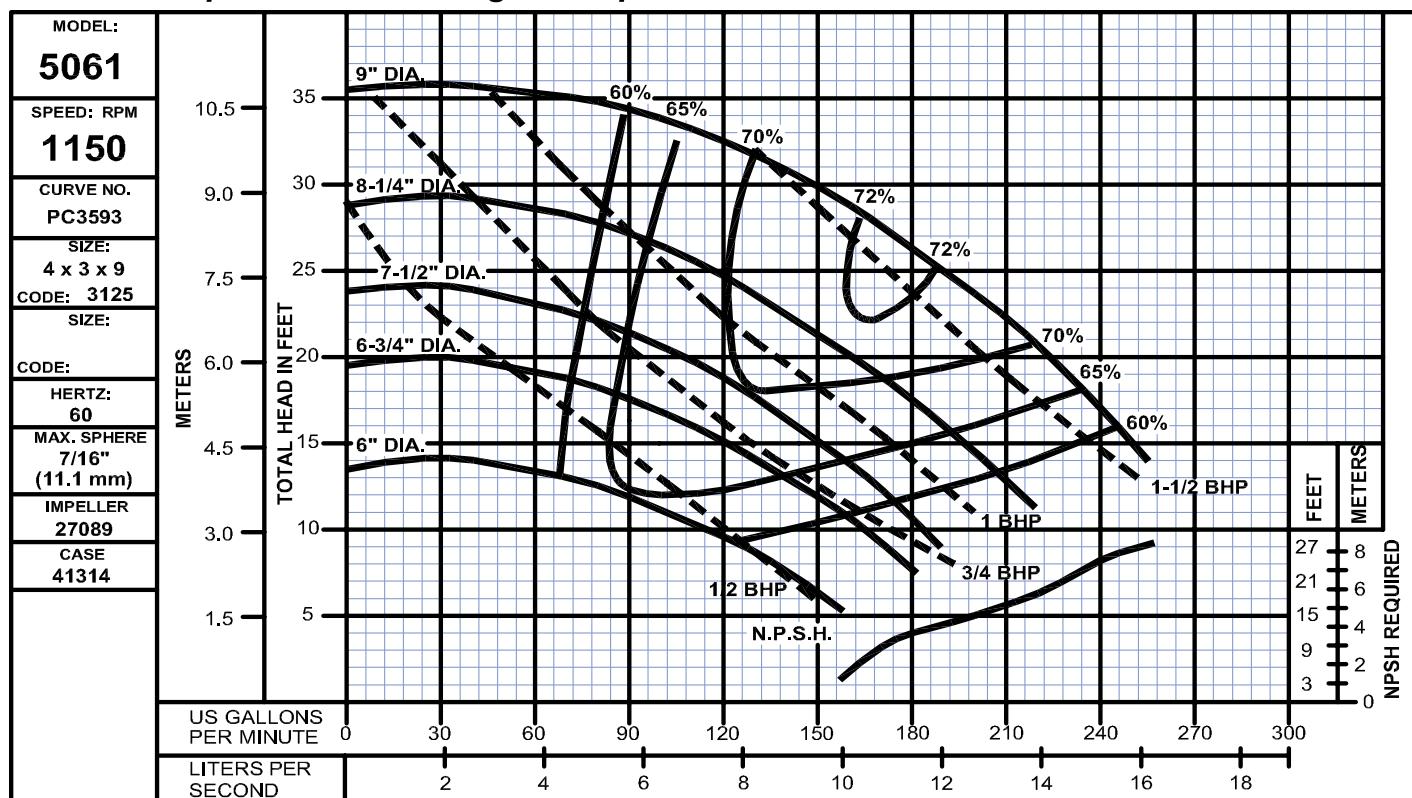
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5061

SIZES: 4 x 3 x 9, 1150 & VARIOUS RPM

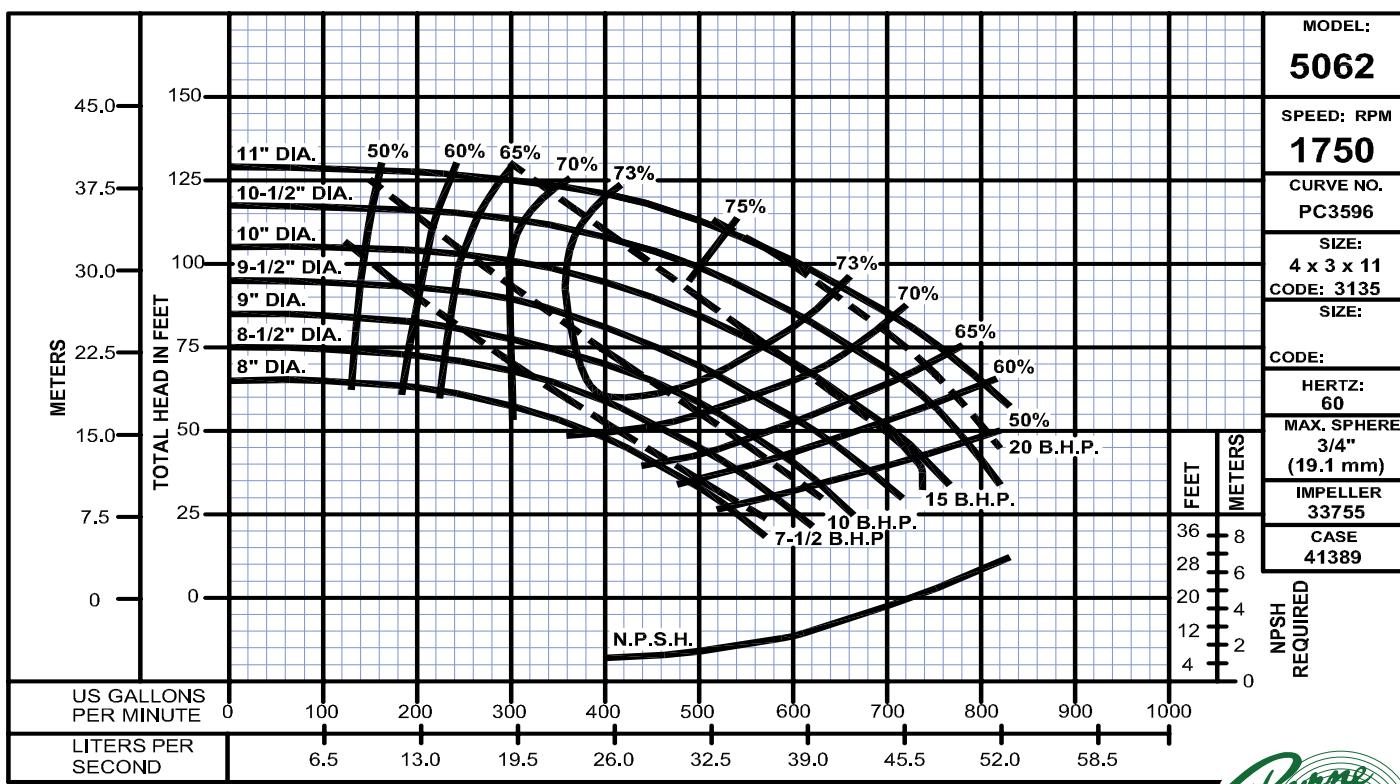
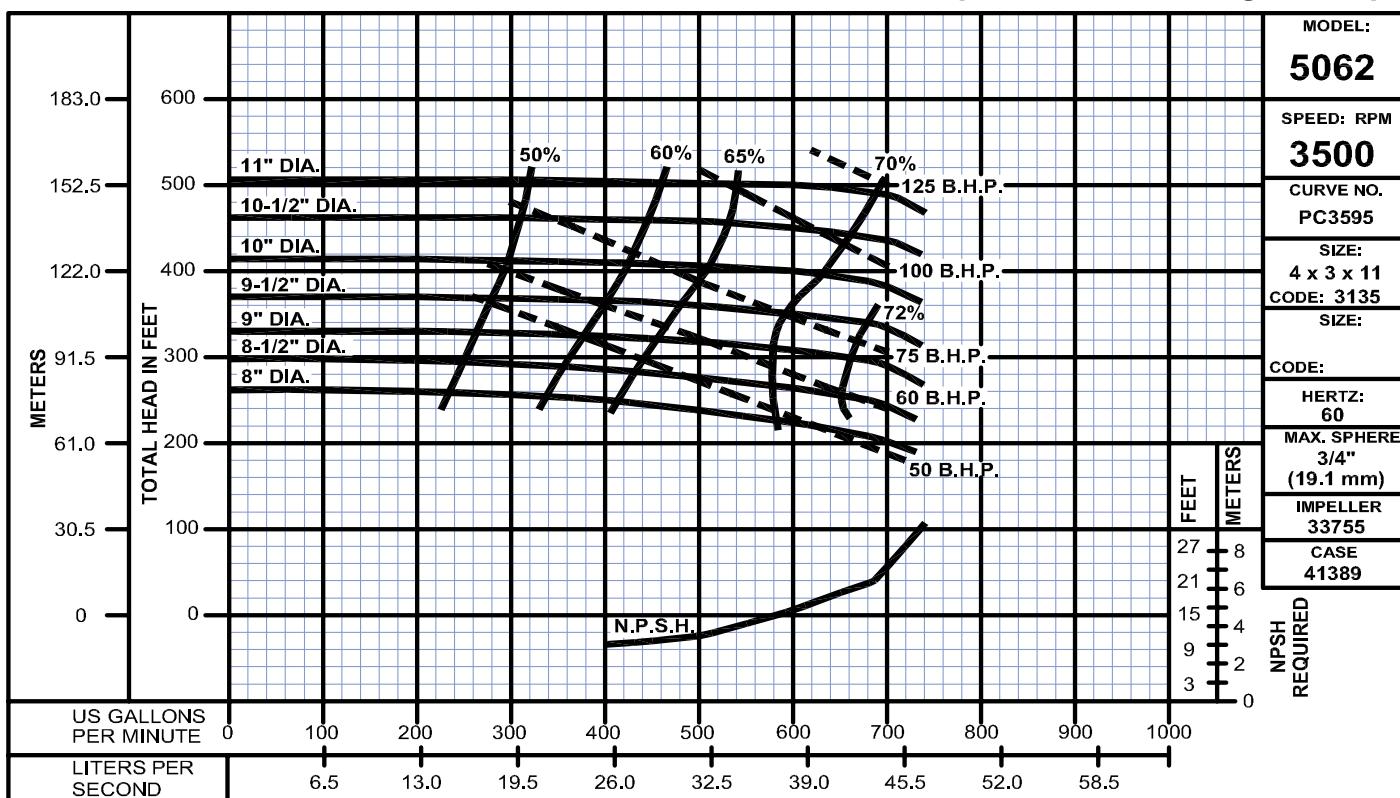
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5061

SIZES: 4 x 3 x 11, 3500 & 1750 RPM

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Horizontal Split Case Centrifugal Pumps



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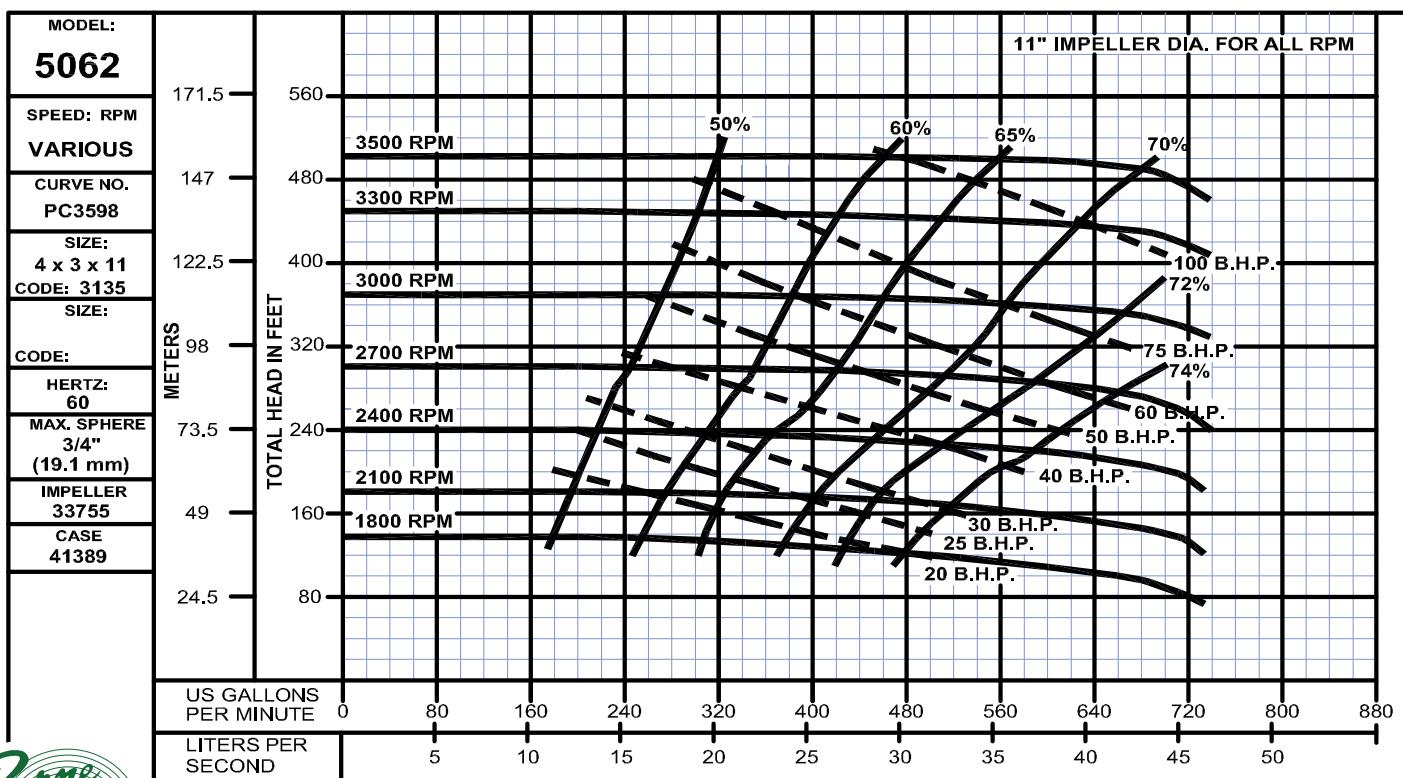
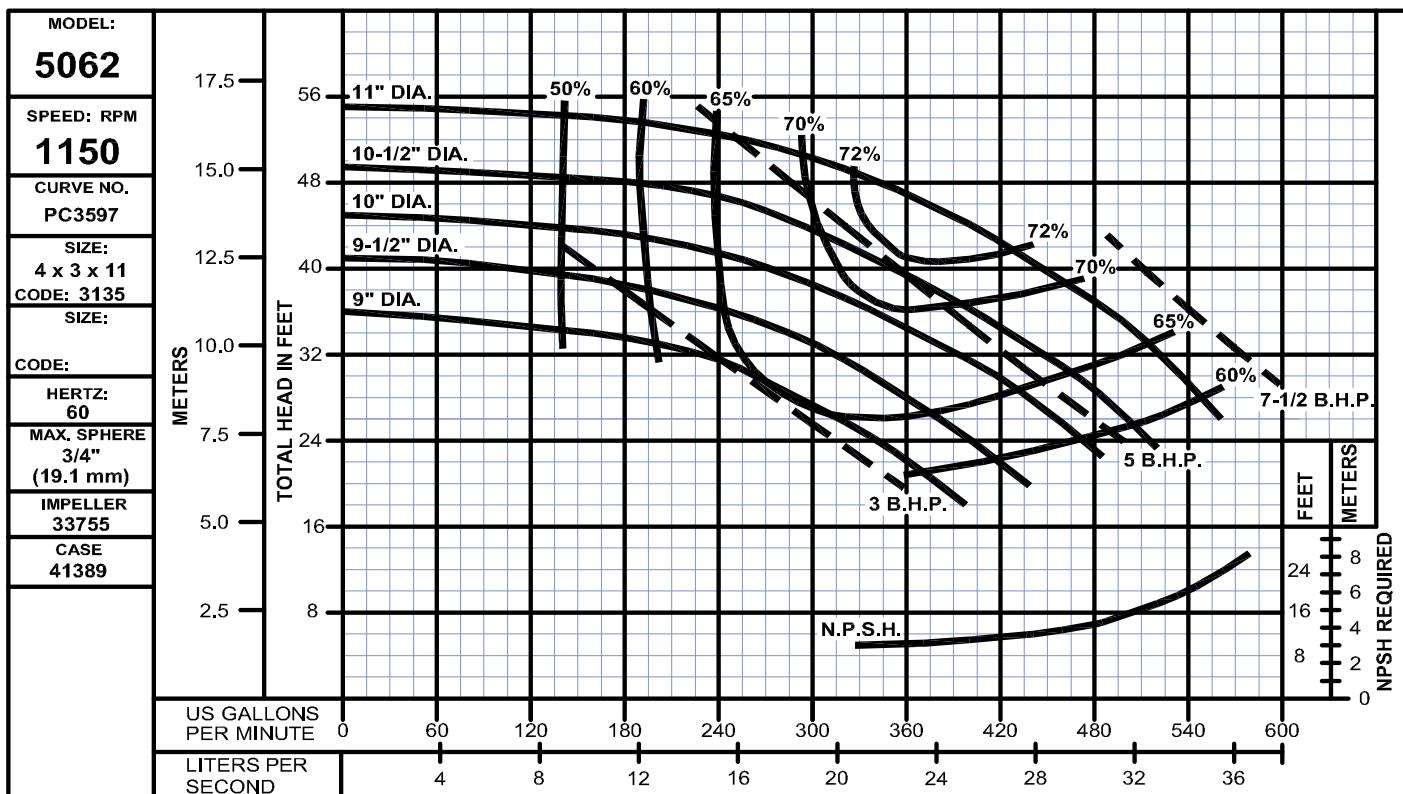
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PERFORMANCE CURVE — FIGURE 5061

SIZES: 4 x 3 x 11, 1150 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

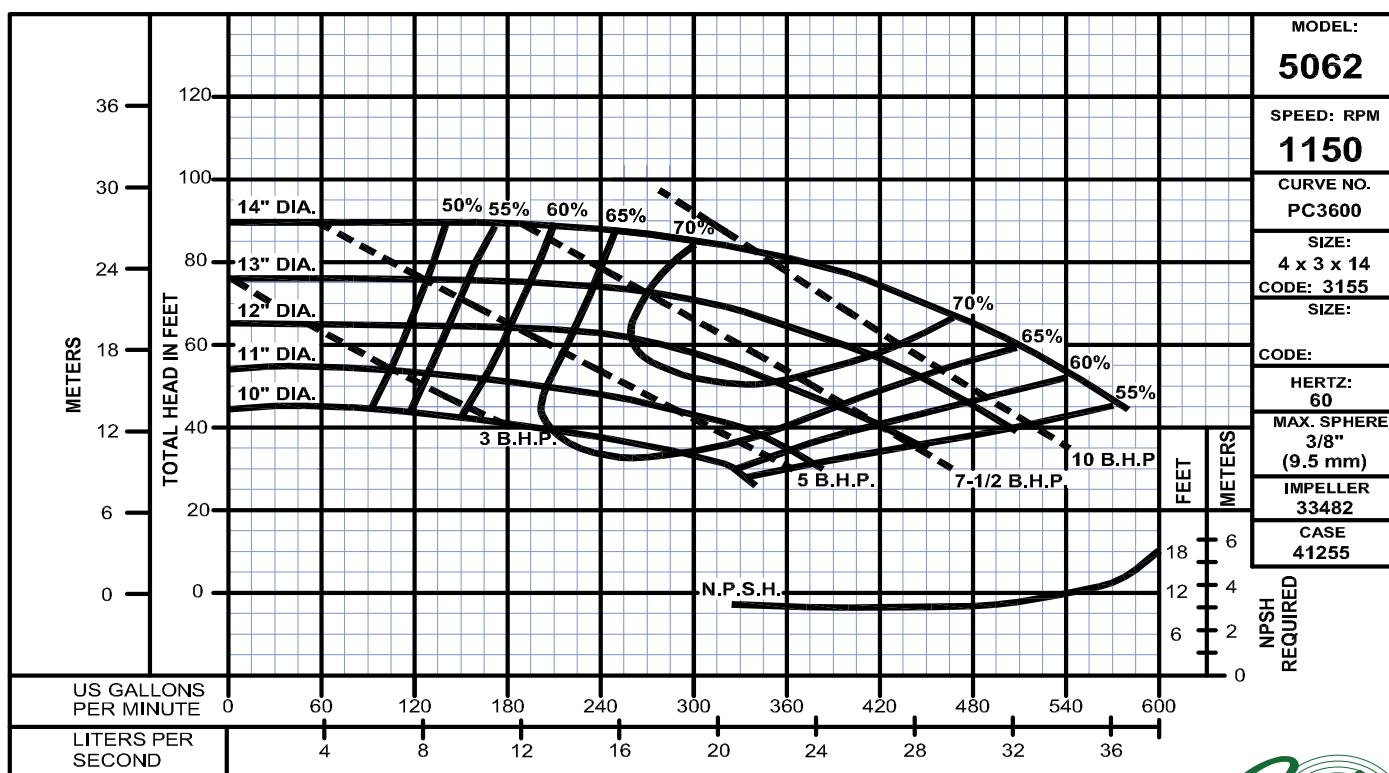
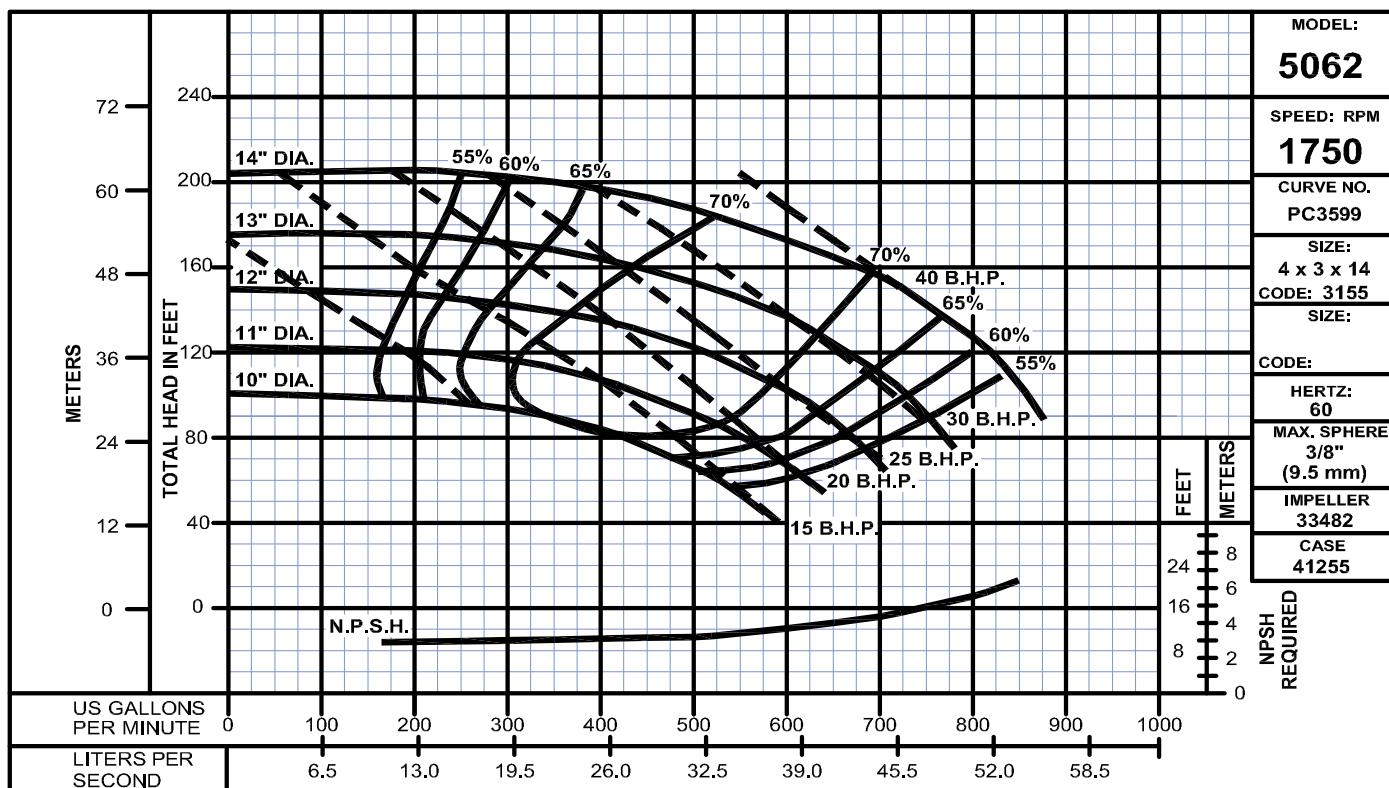


PERFORMANCE CURVE — FIGURE 5061

SIZES: 4 x 3 x 14, 1750 & 1150 RPM

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Horizontal Split Case Centrifugal Pumps



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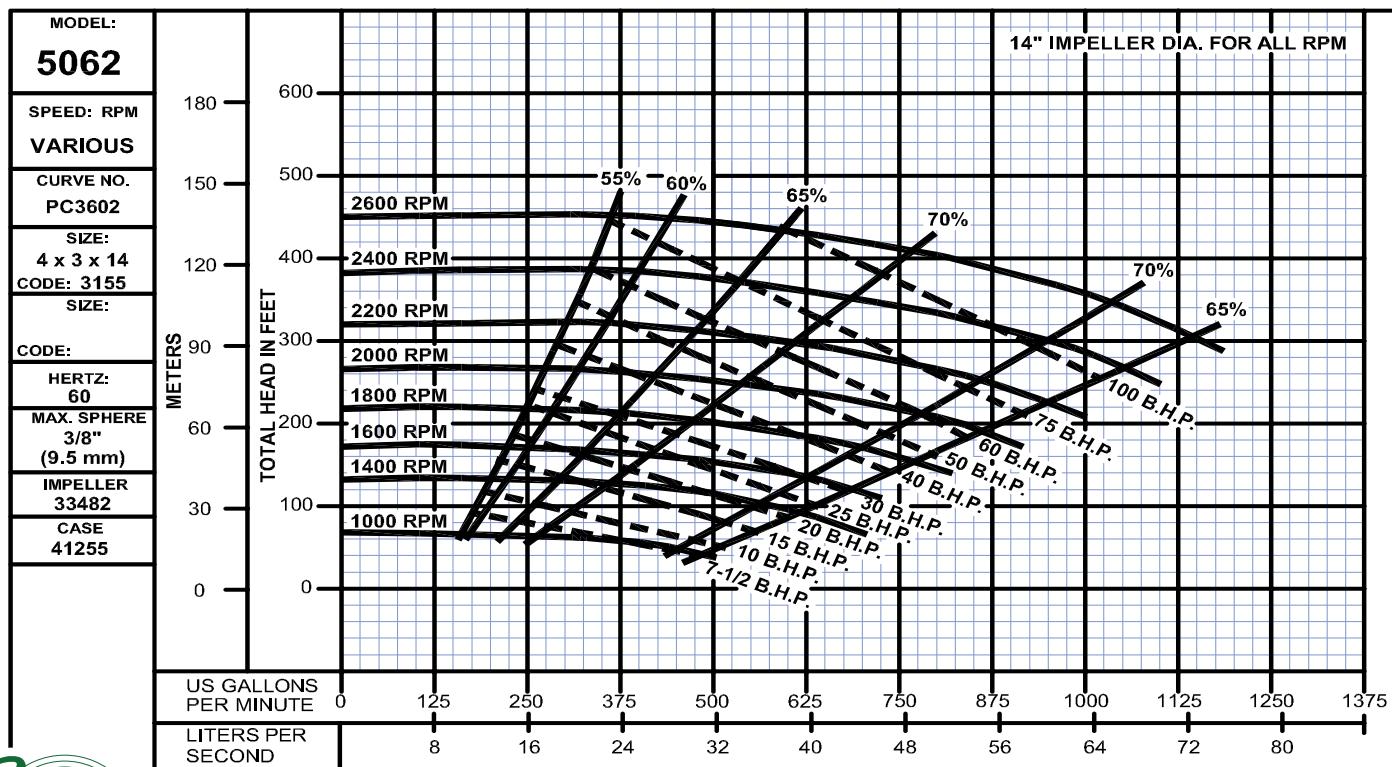
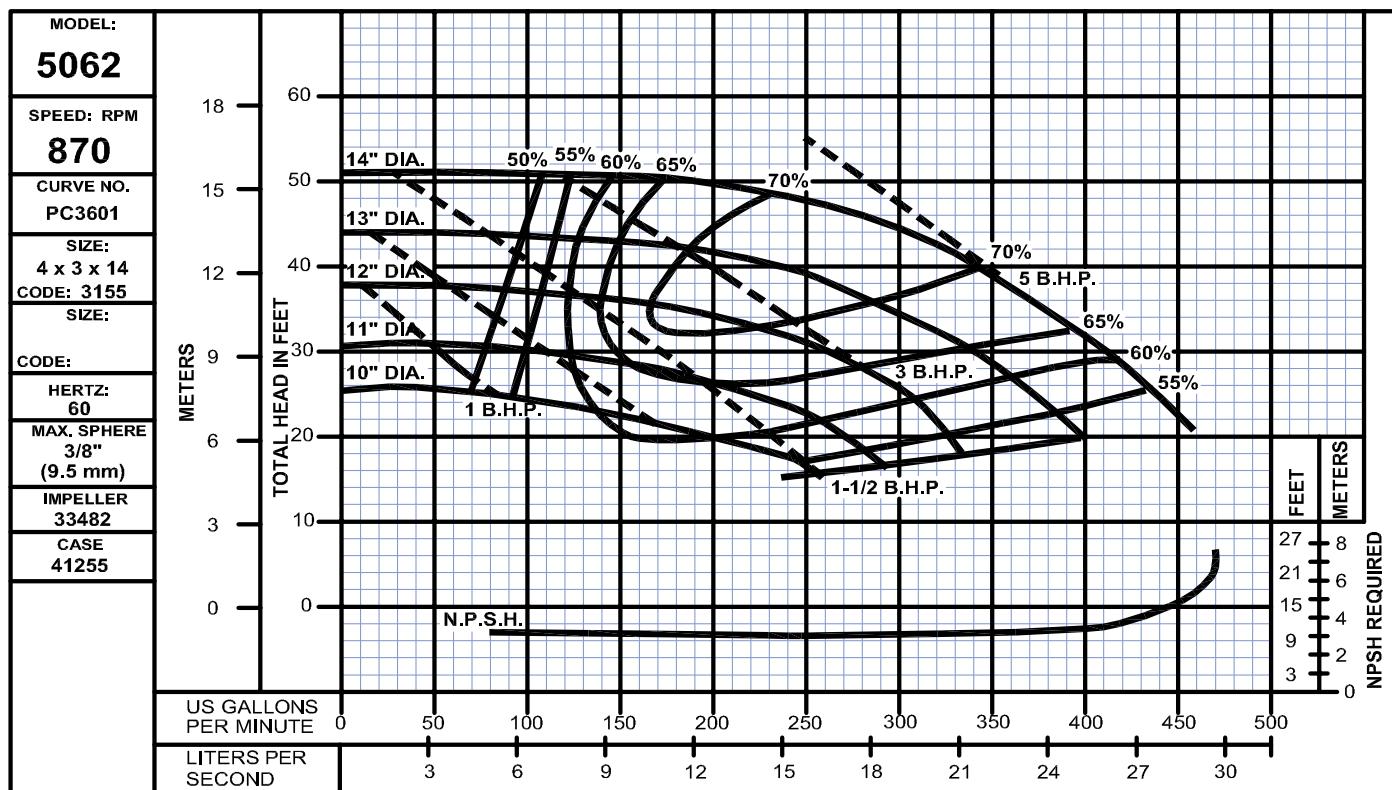
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 4 x 3 x 14, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

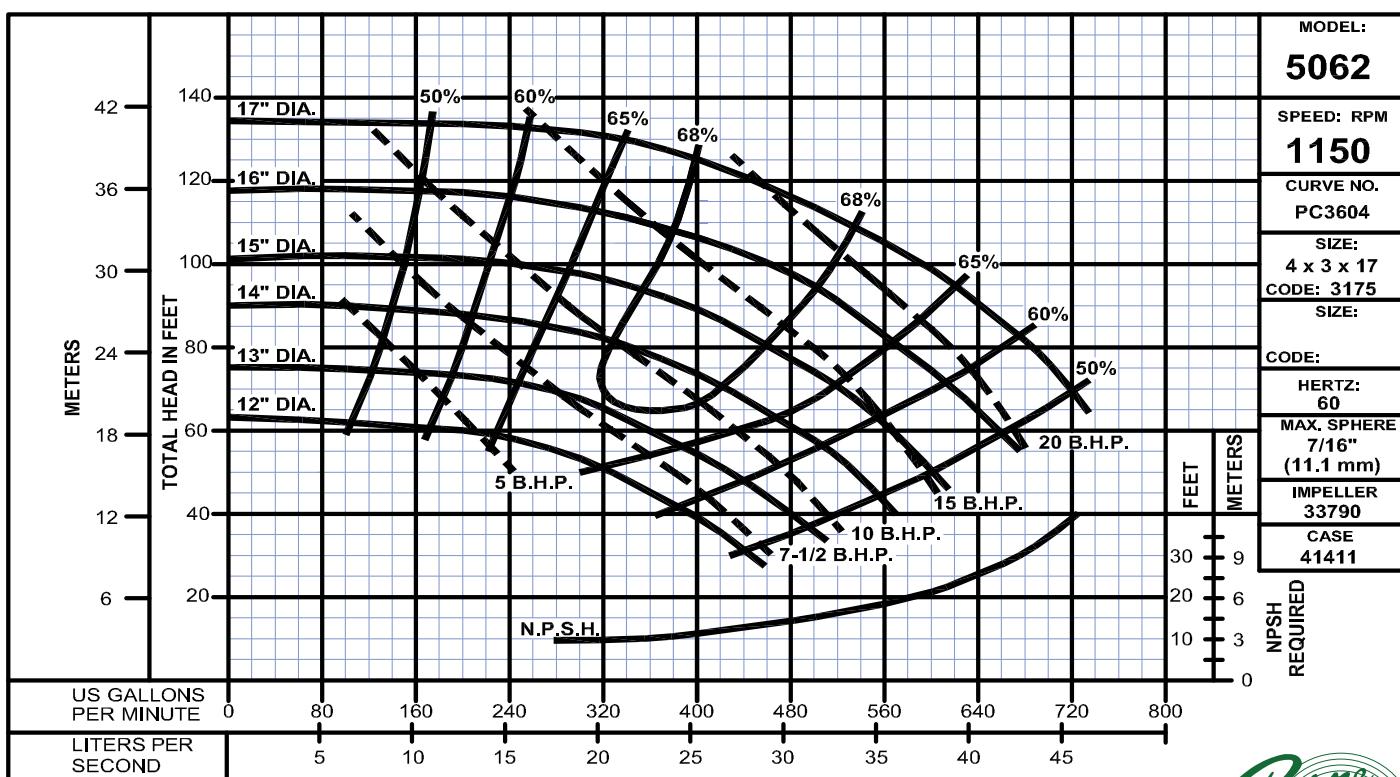
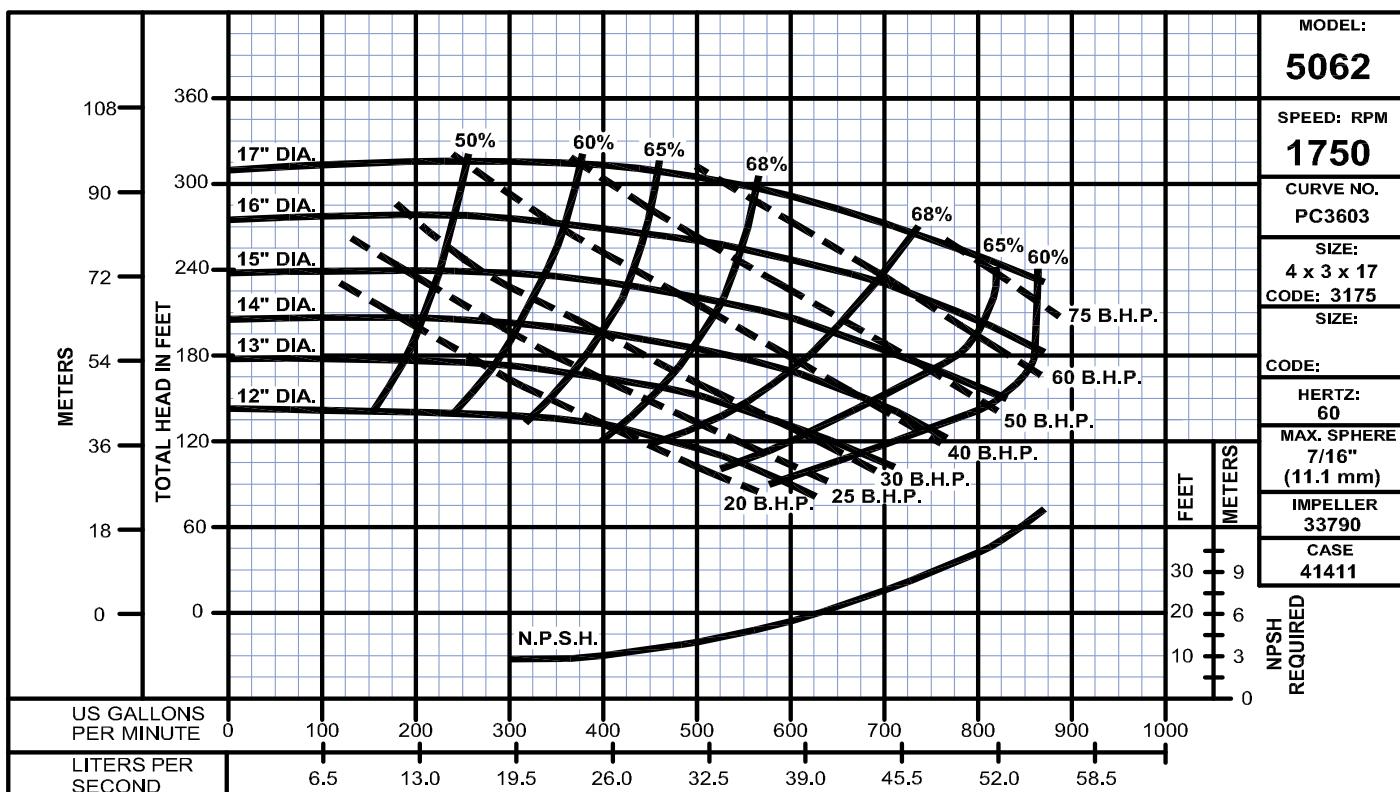


PERFORMANCE CURVE — FIGURE 5062

SIZES: 4 x 3 x 17, 1750 & 1150 RPM

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Horizontal Split Case Centrifugal Pumps



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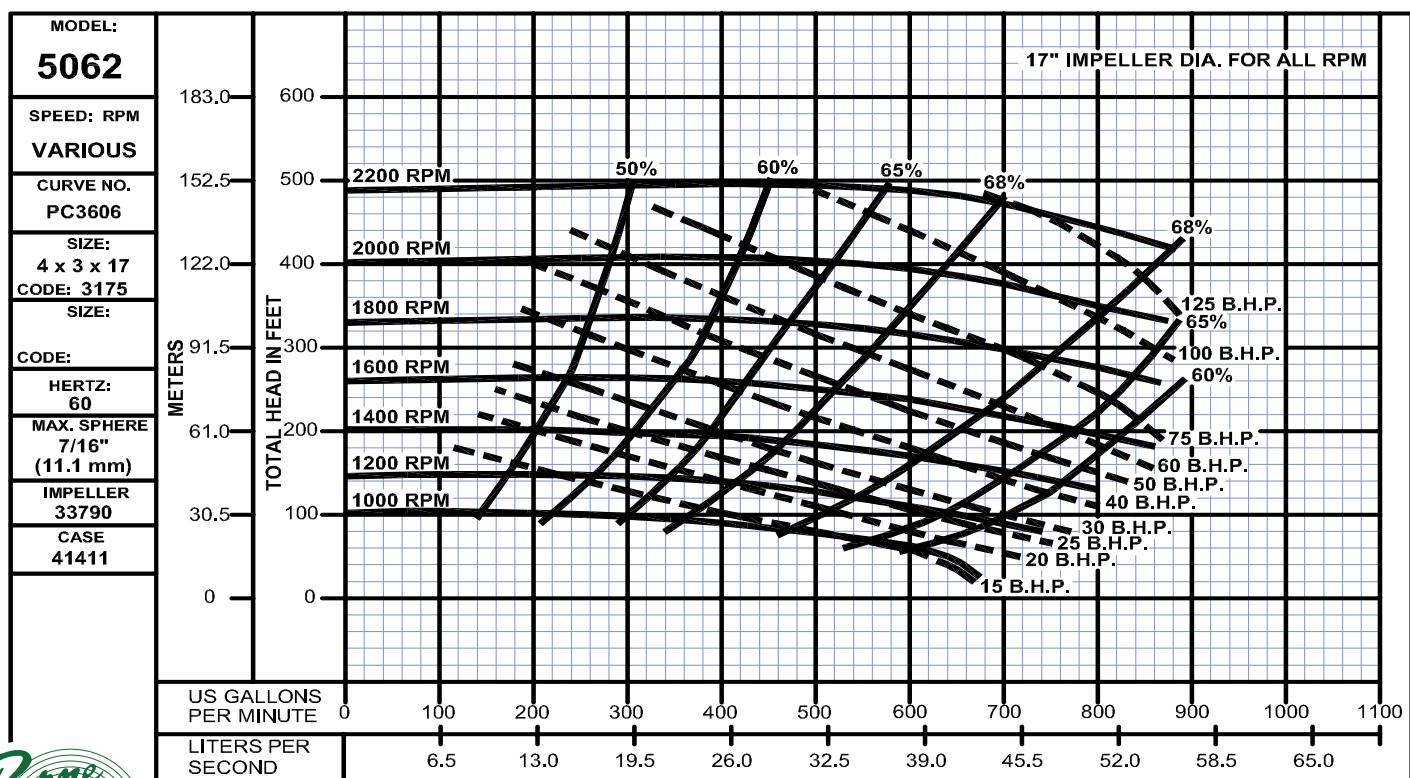
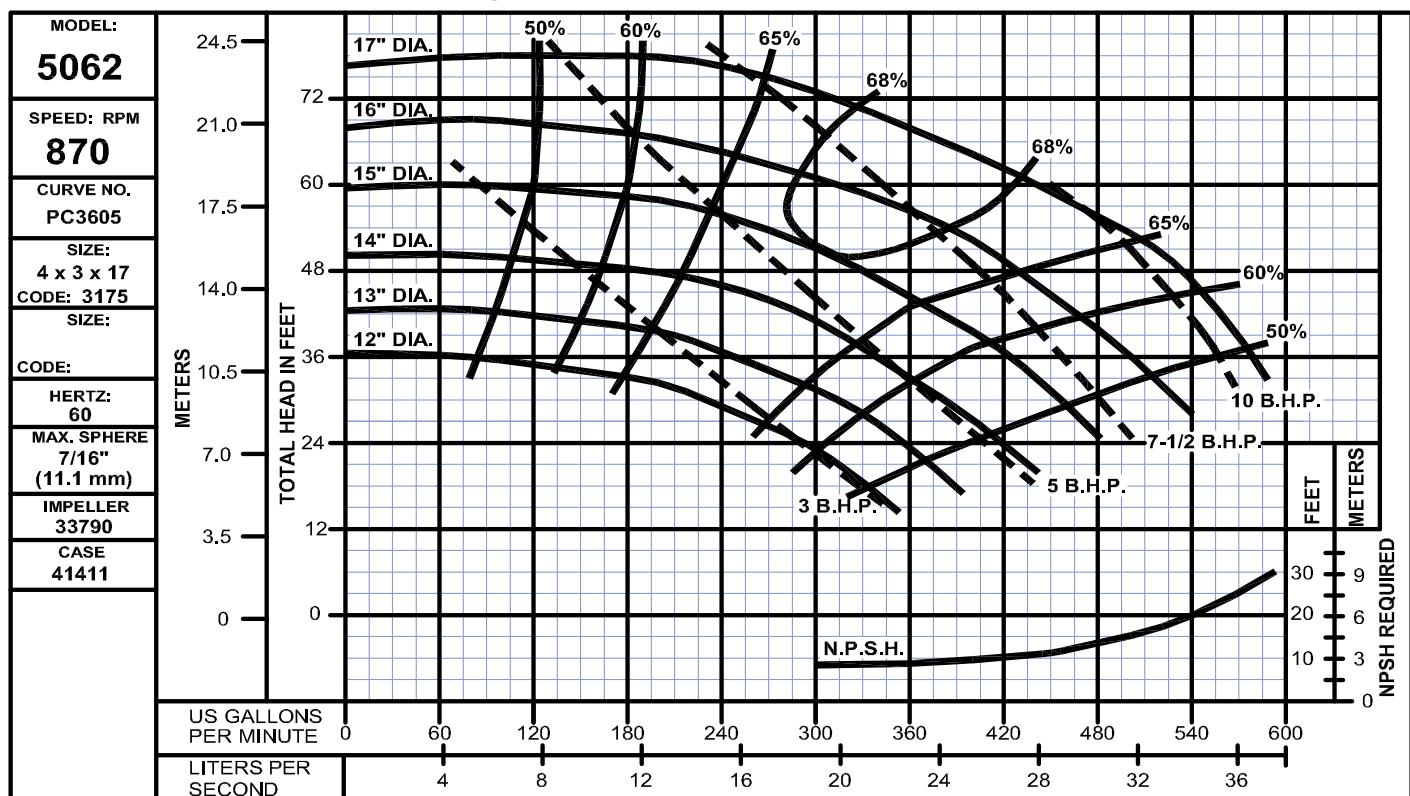
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 4 x 3 x 17, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

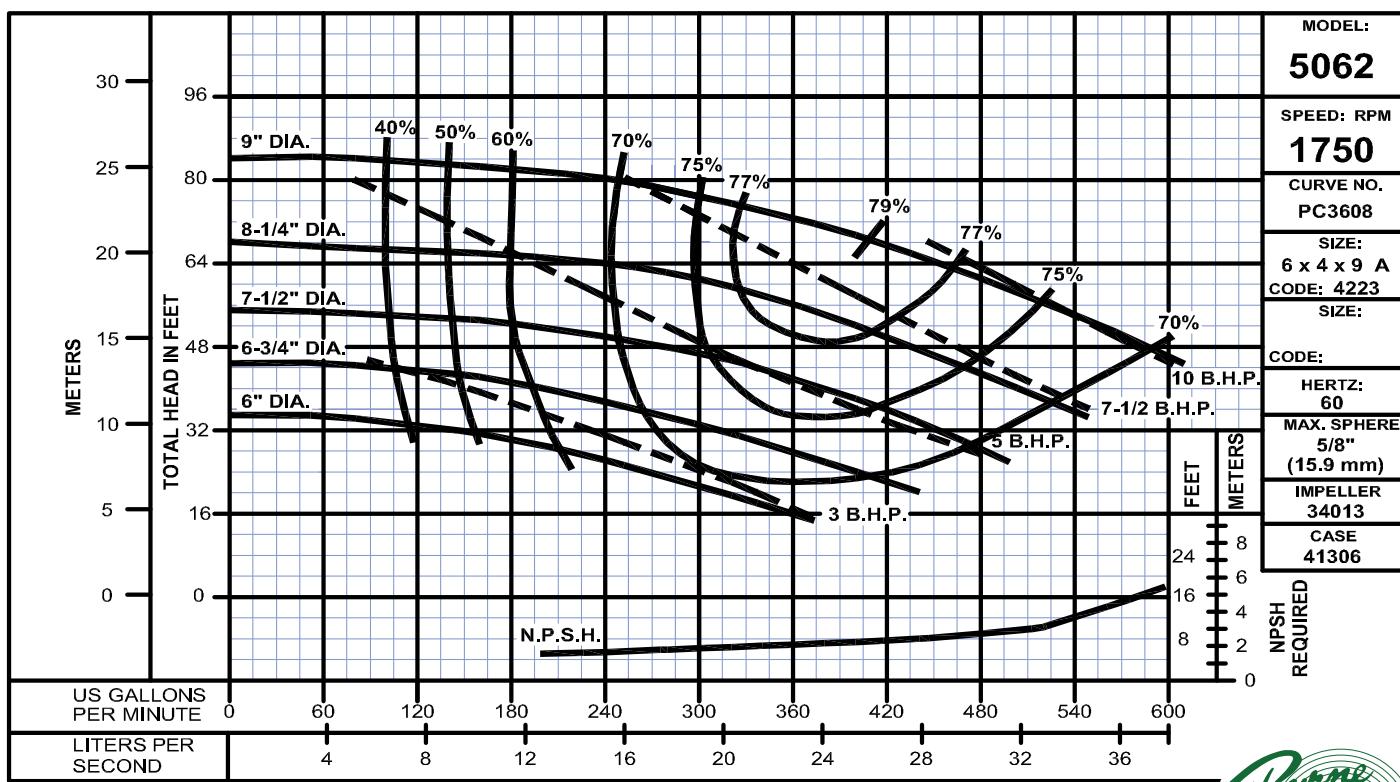
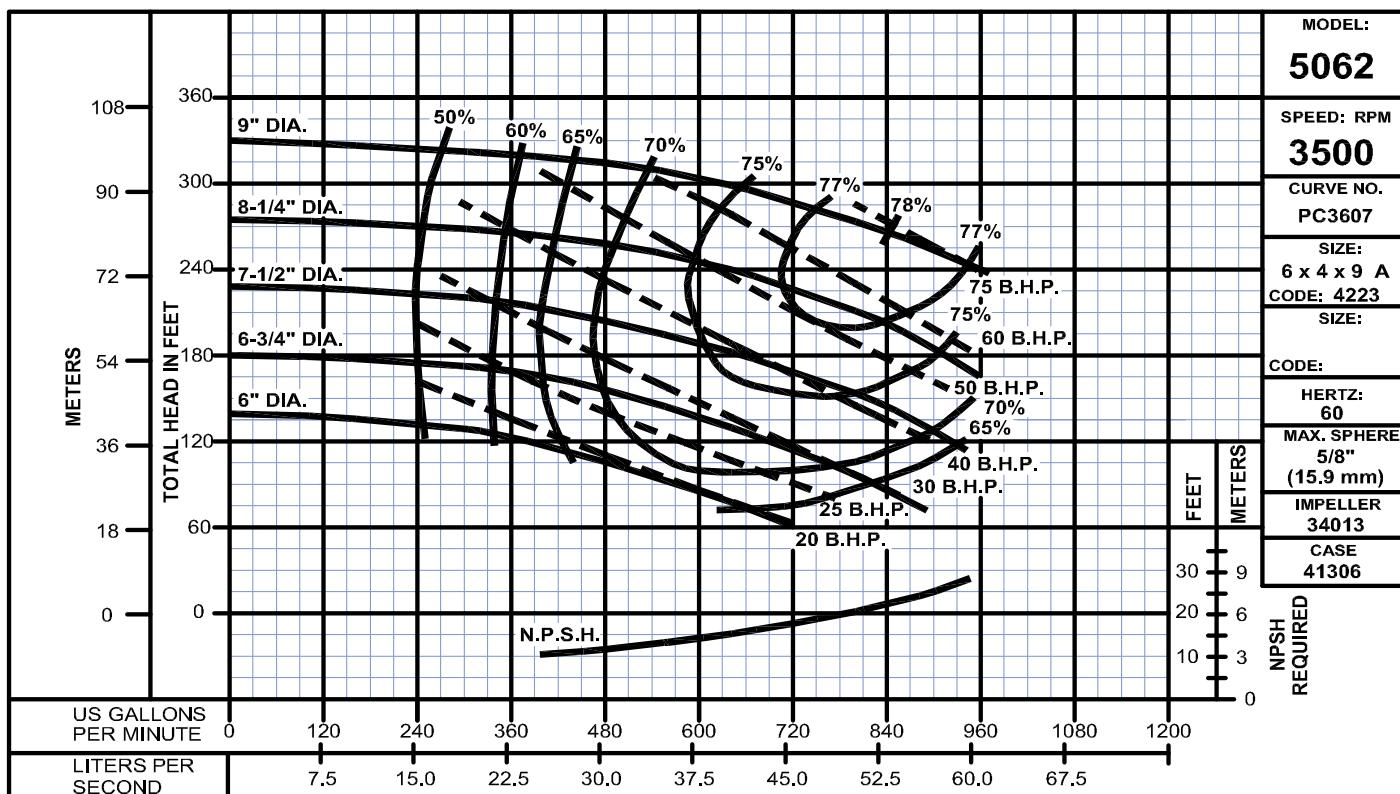


PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 9, 3500 & 1750 RPM

BR

Horizontal Split Case Centrifugal Pumps



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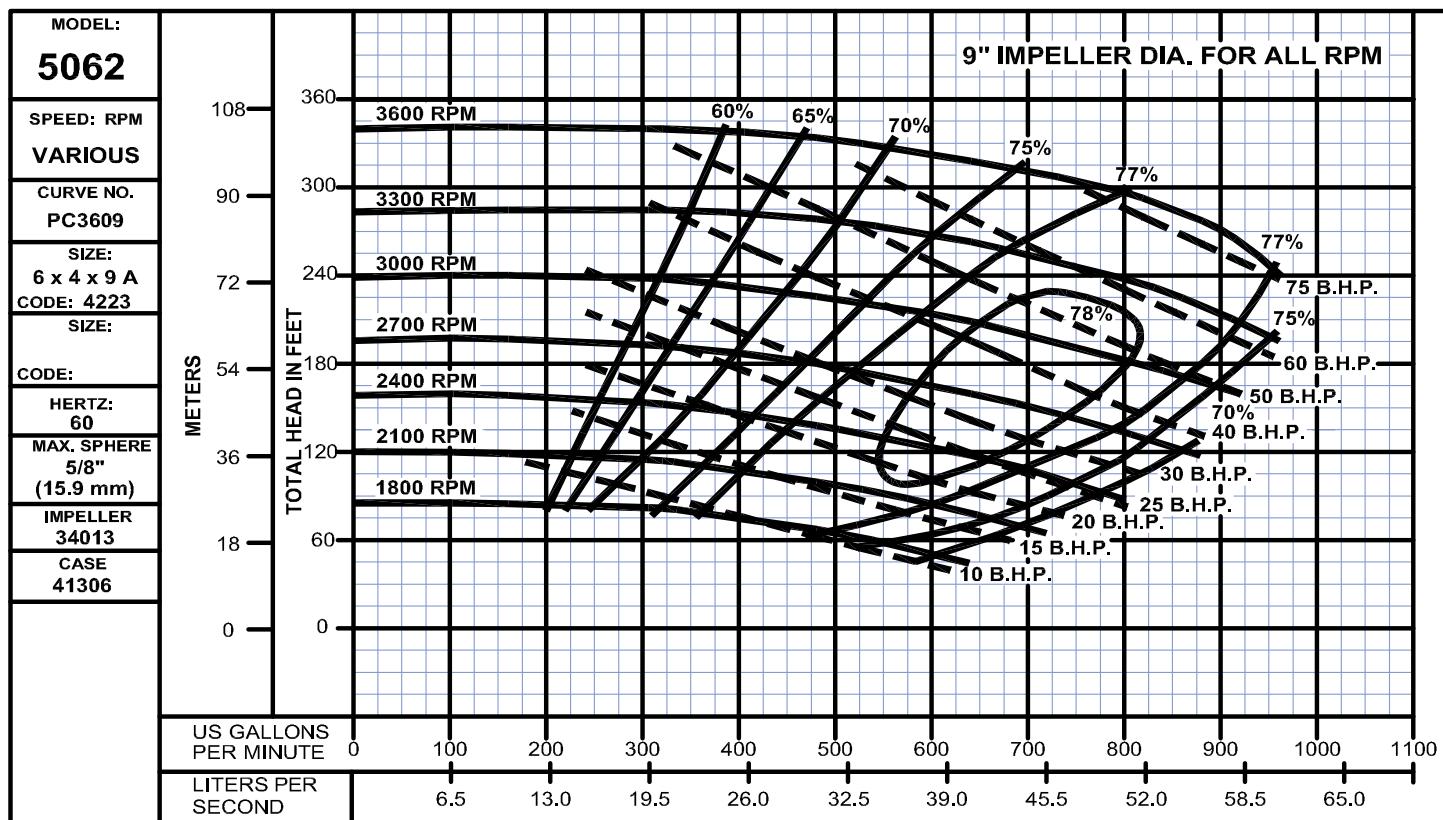
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 9, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Do you remember any instance where tyranny was destroyed and freedom established on its ruins, among a people possessing so small a share of virtue and public spirit? I recollect none, and this more than the British arms makes me fearful of final success, without a reform.”

—Patrick Henry



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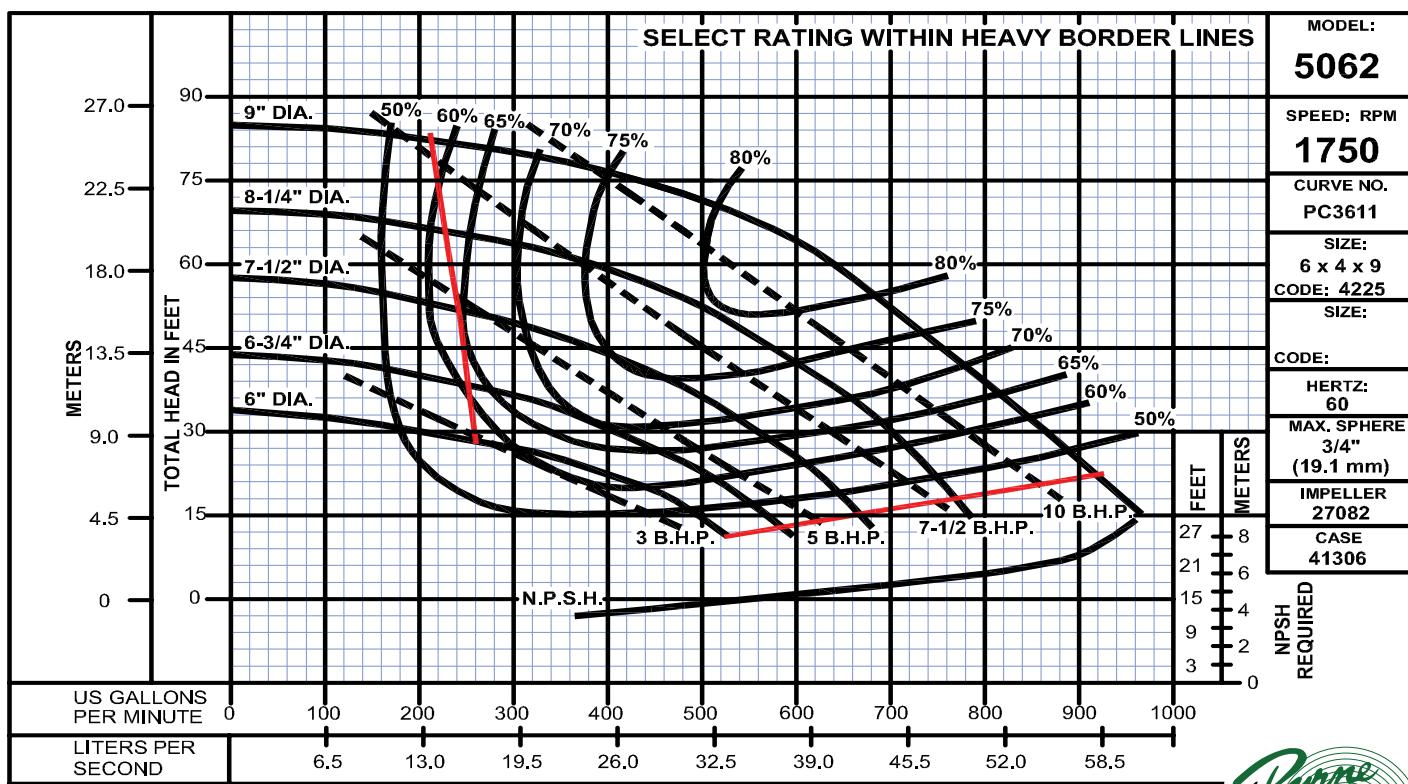
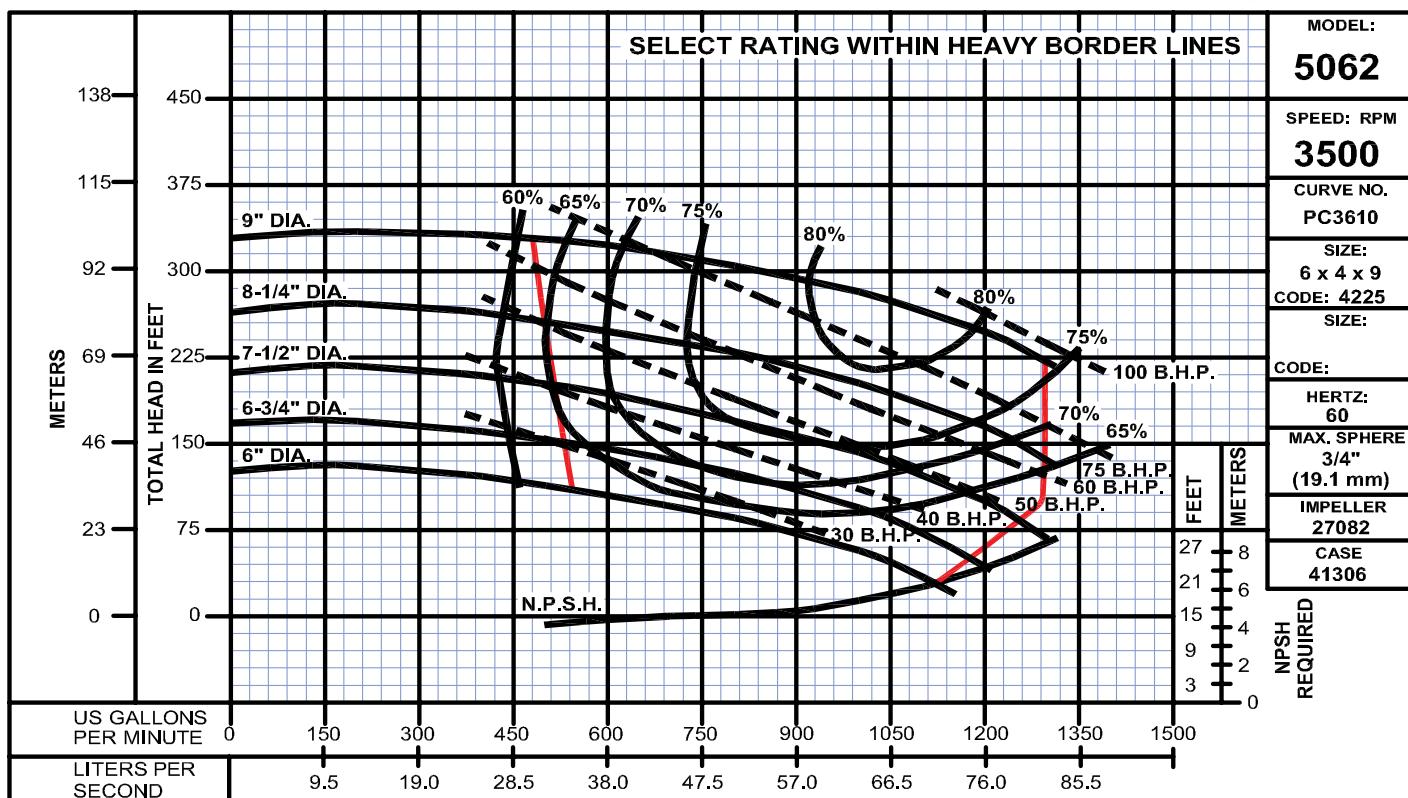
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 9, 3500 & 1750 RPM

BR

Horizontal Split Case Centrifugal Pumps



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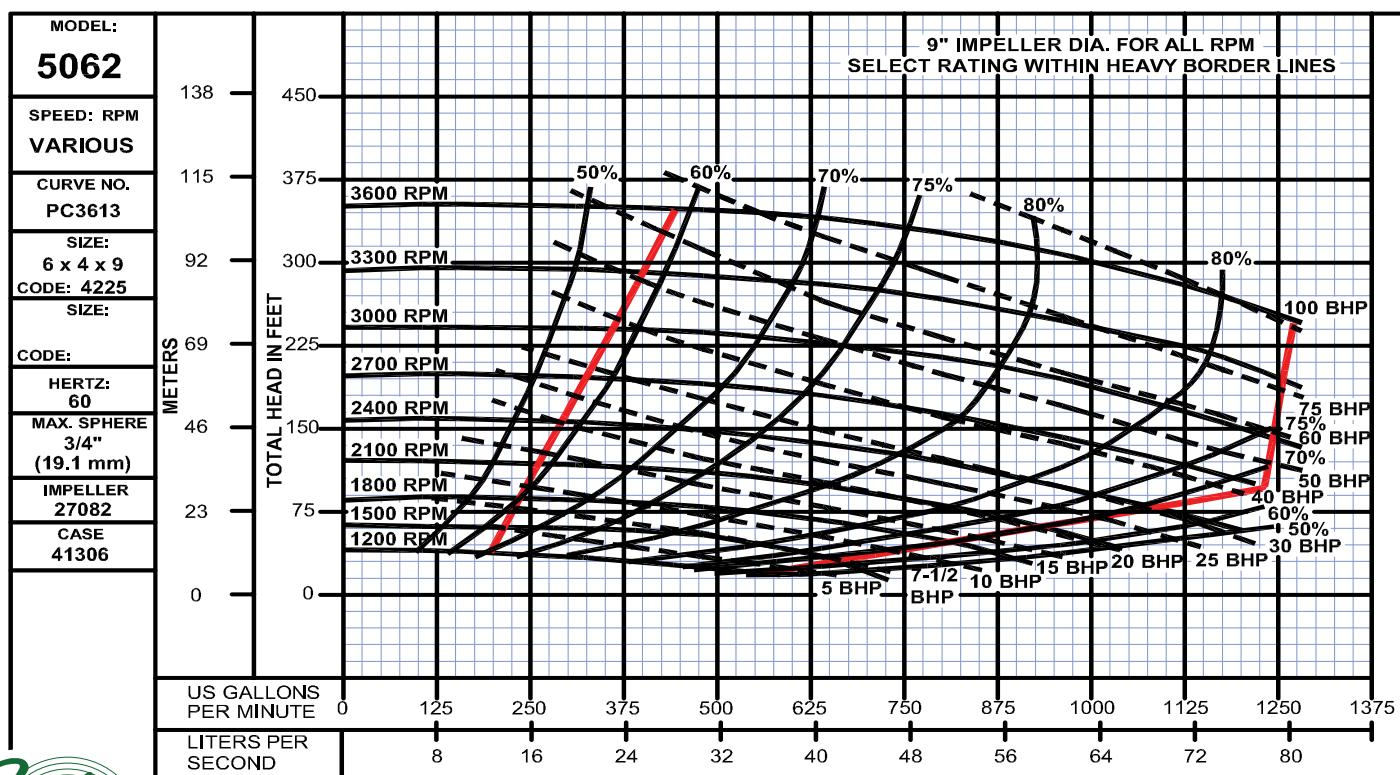
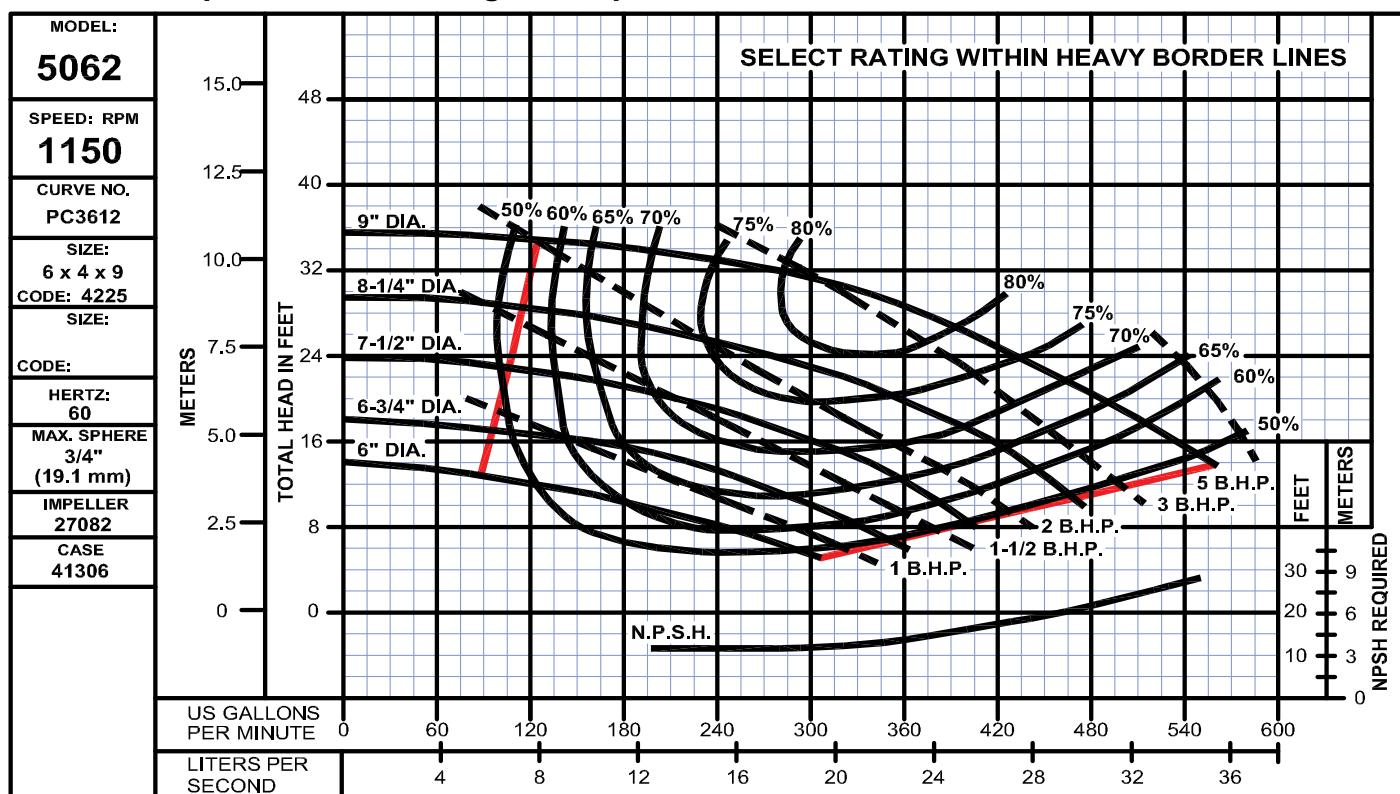
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 9, 1150 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

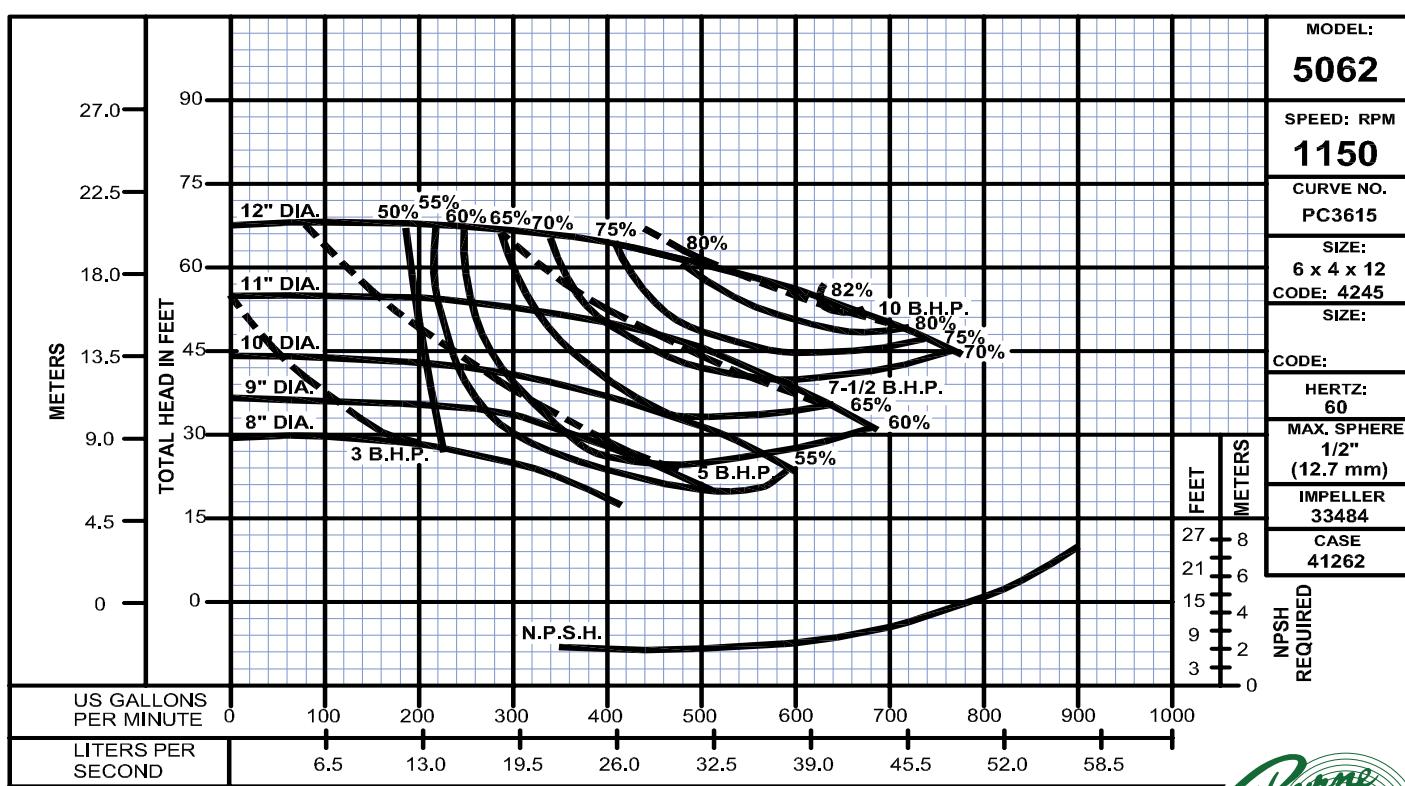
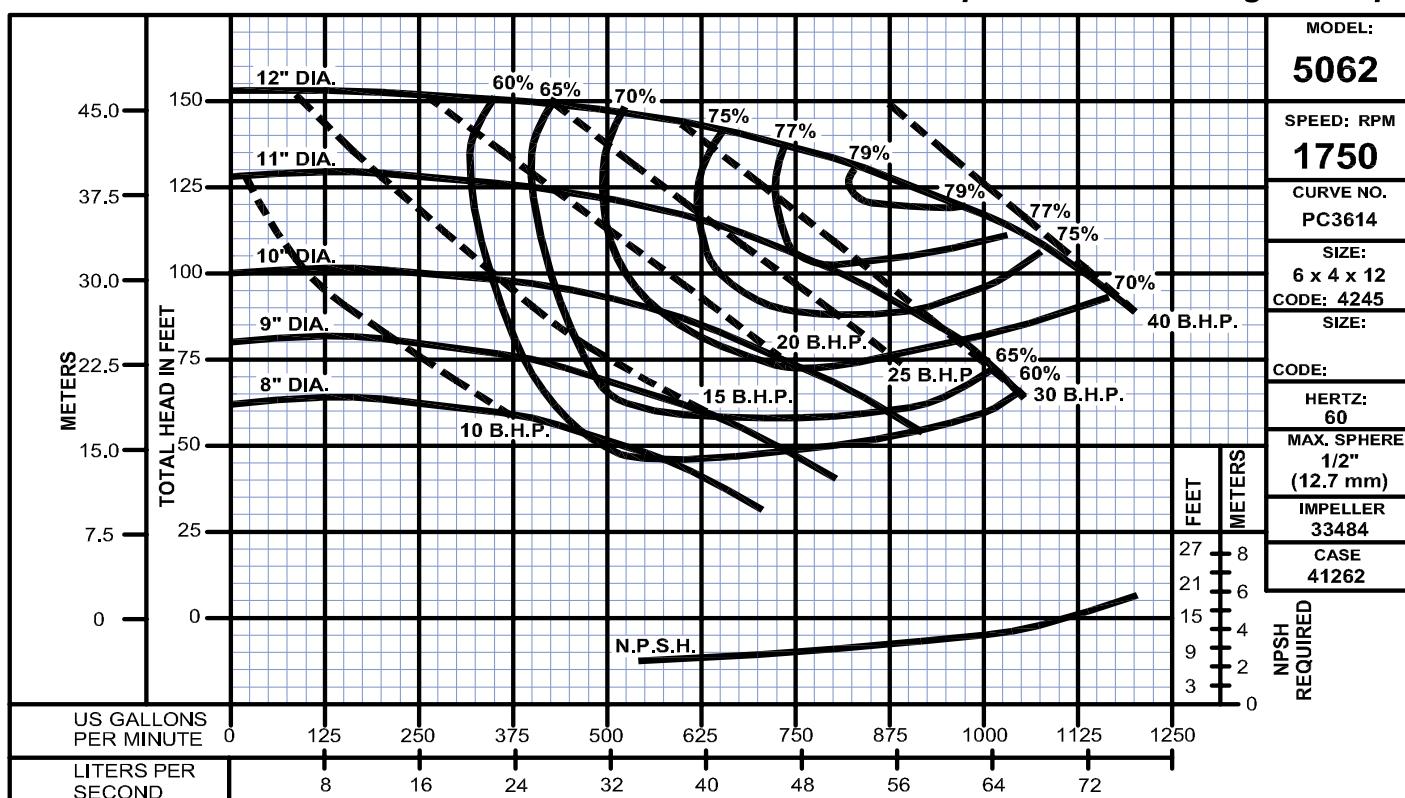


PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 12, 1750 & 1150 RPM

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Horizontal Split Case Centrifugal Pumps



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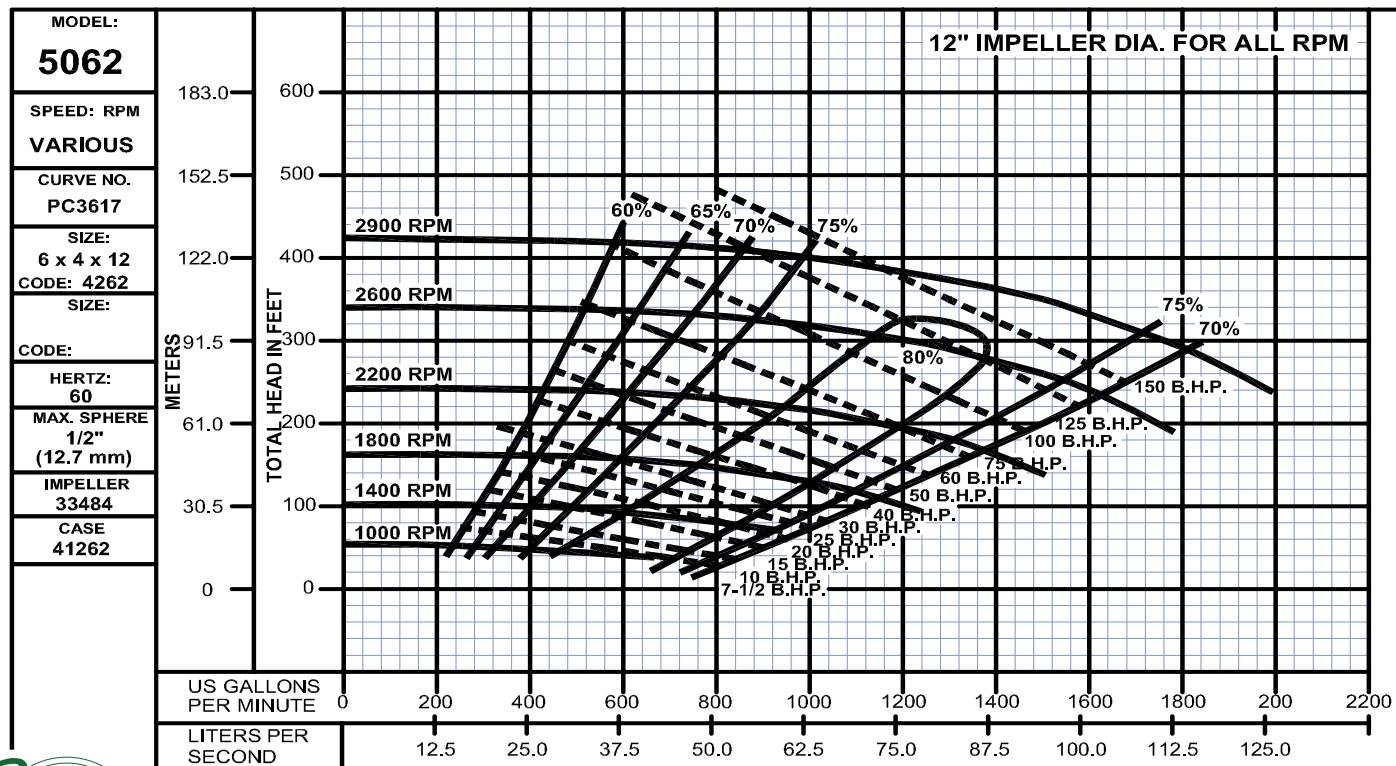
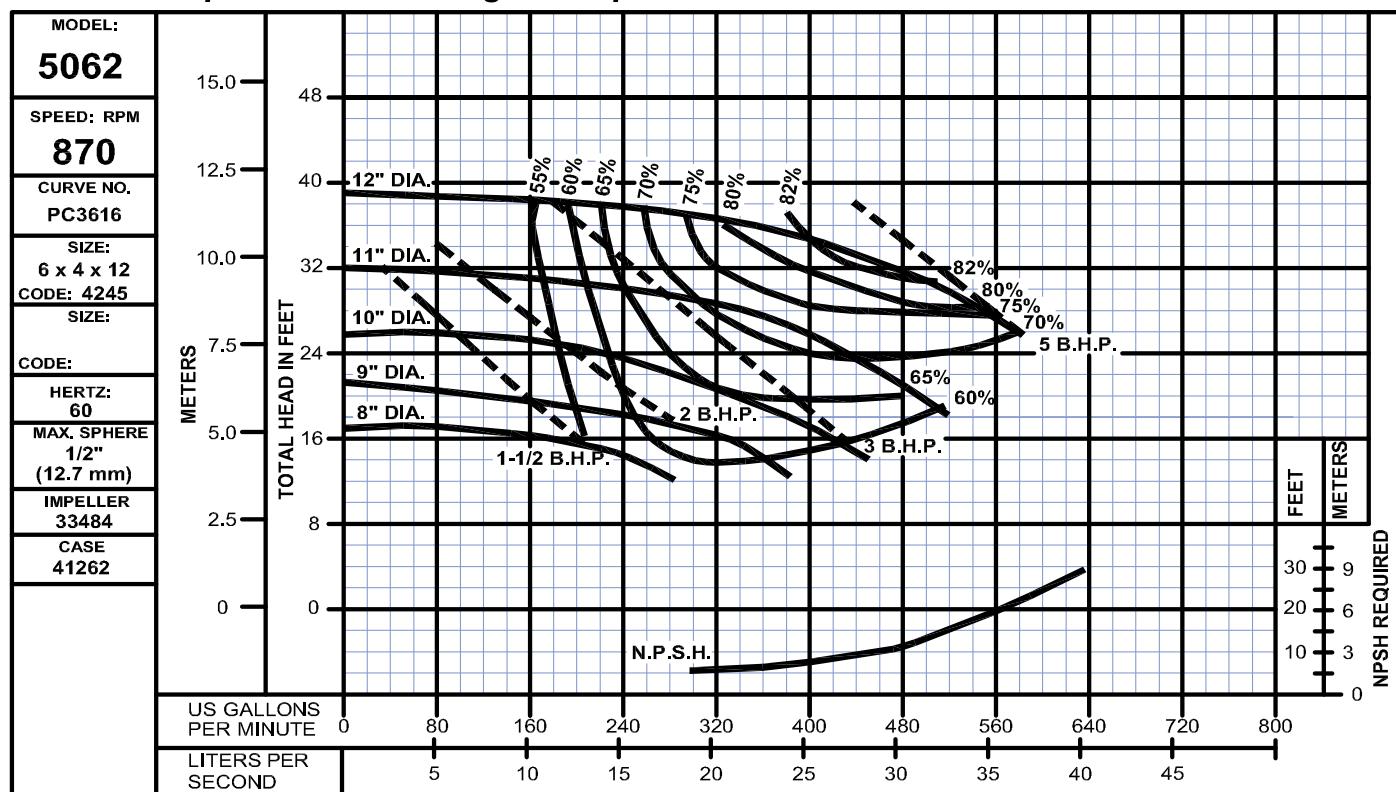
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 12, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

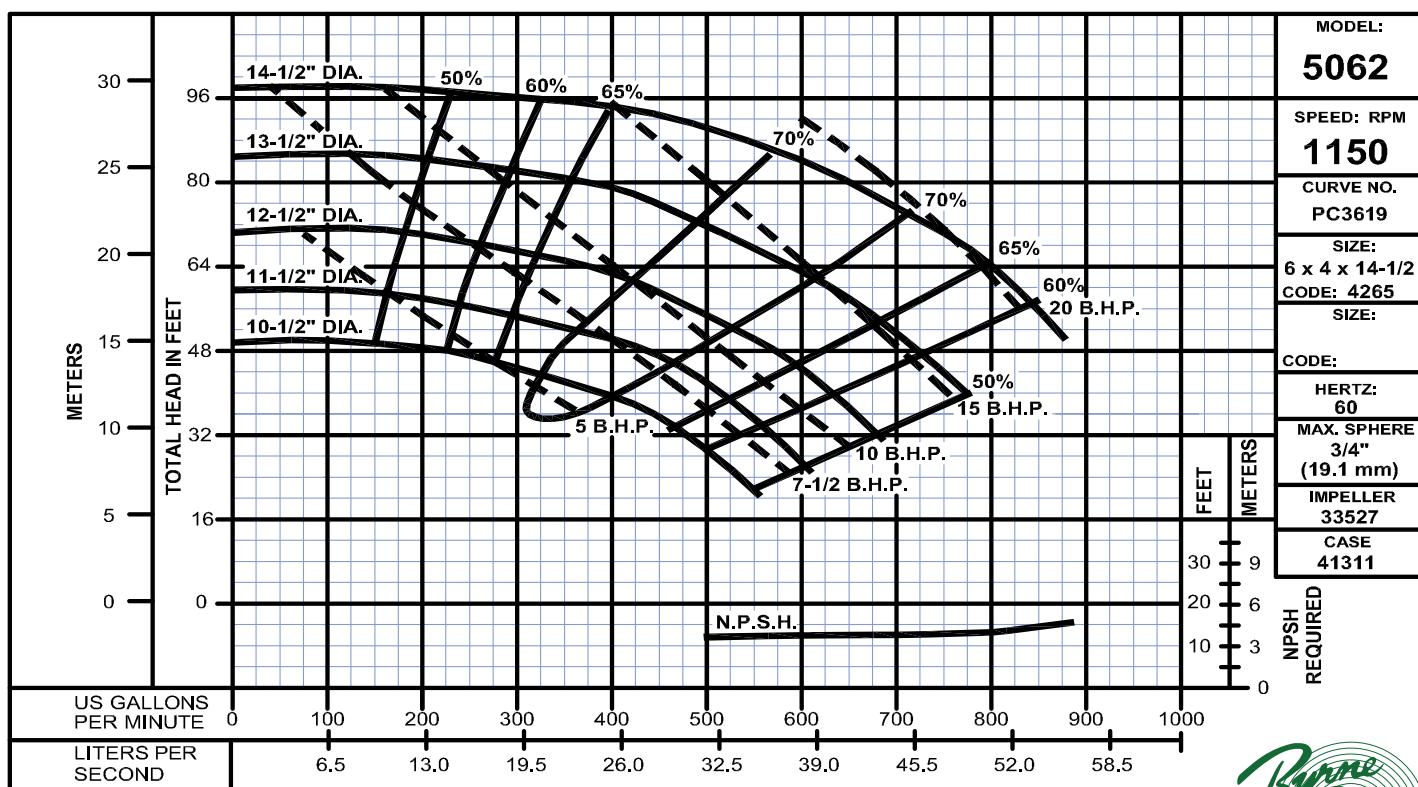
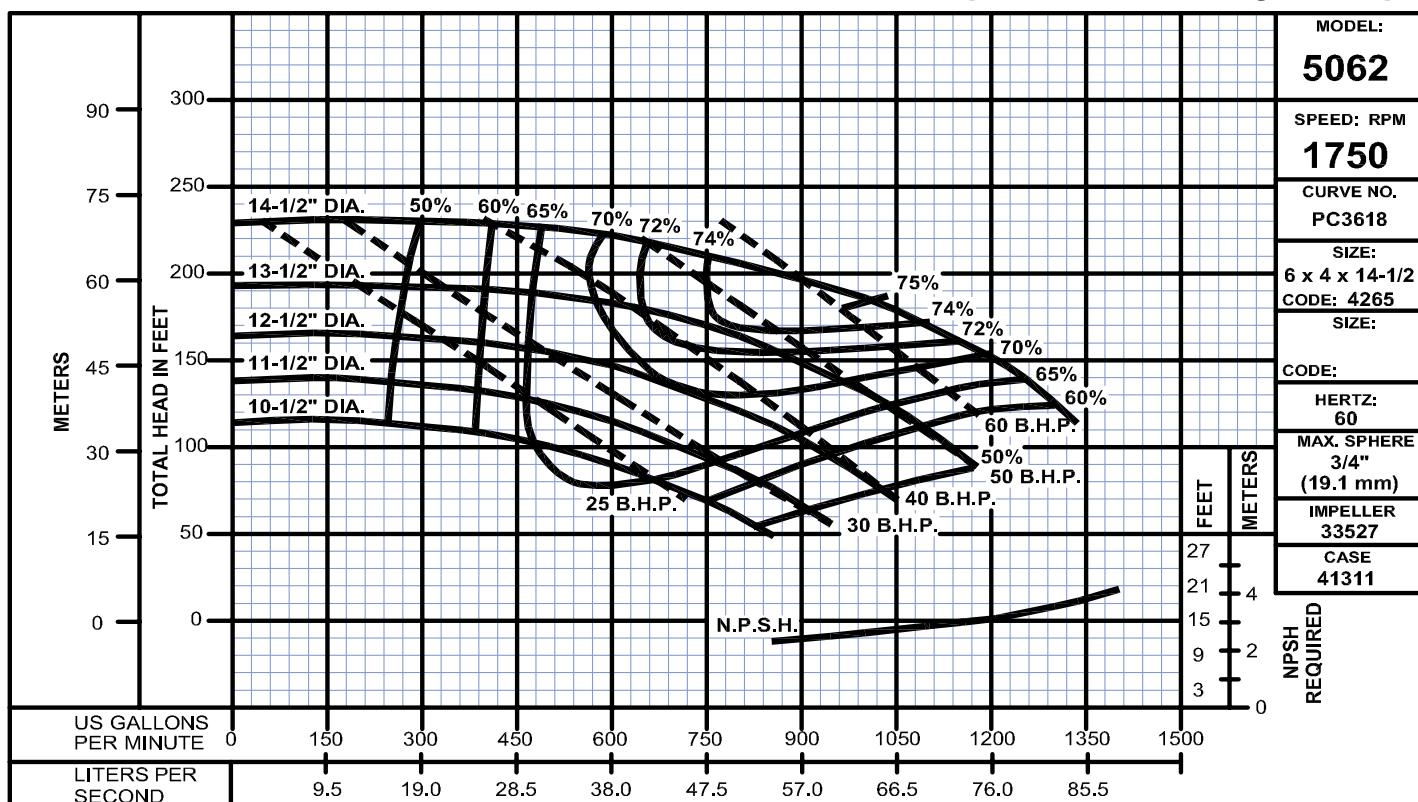


PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 14-1/2, 1750 & 1150 RPM

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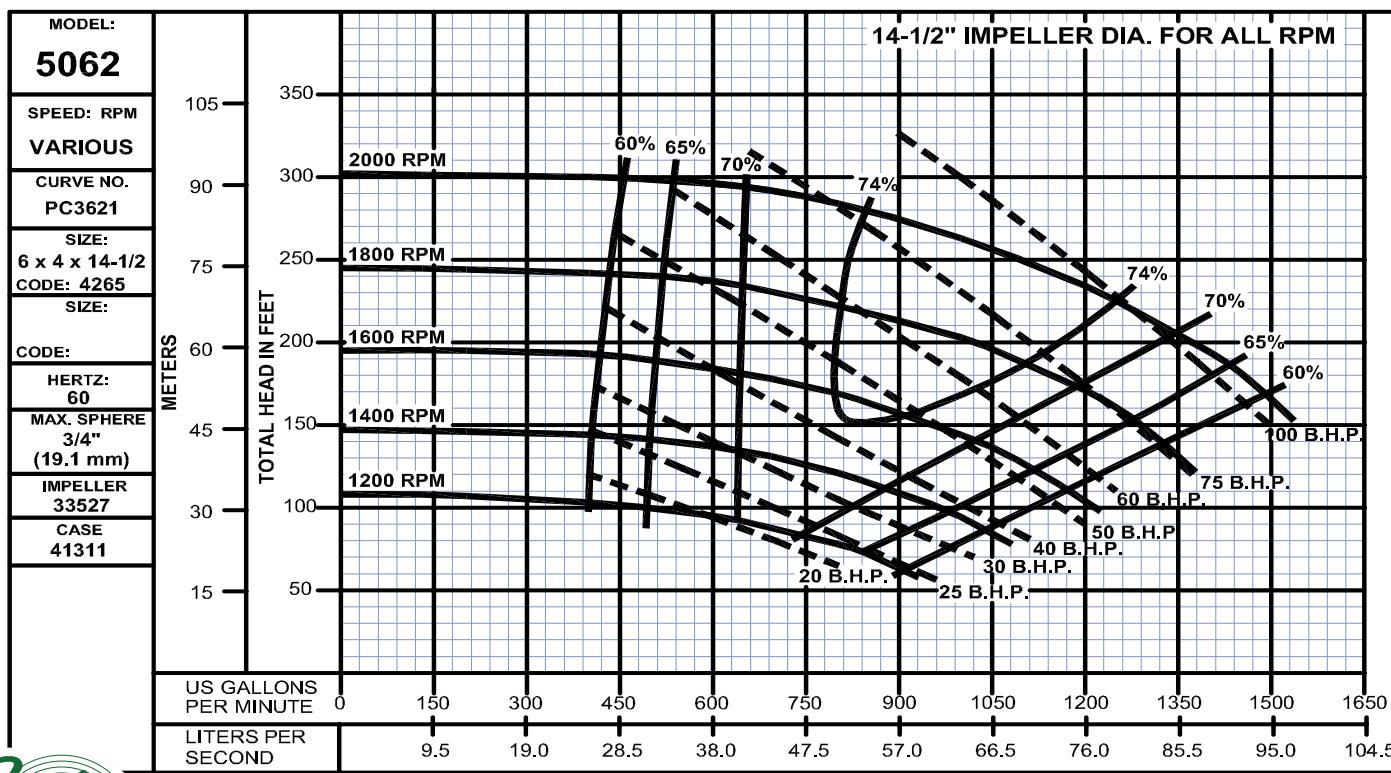
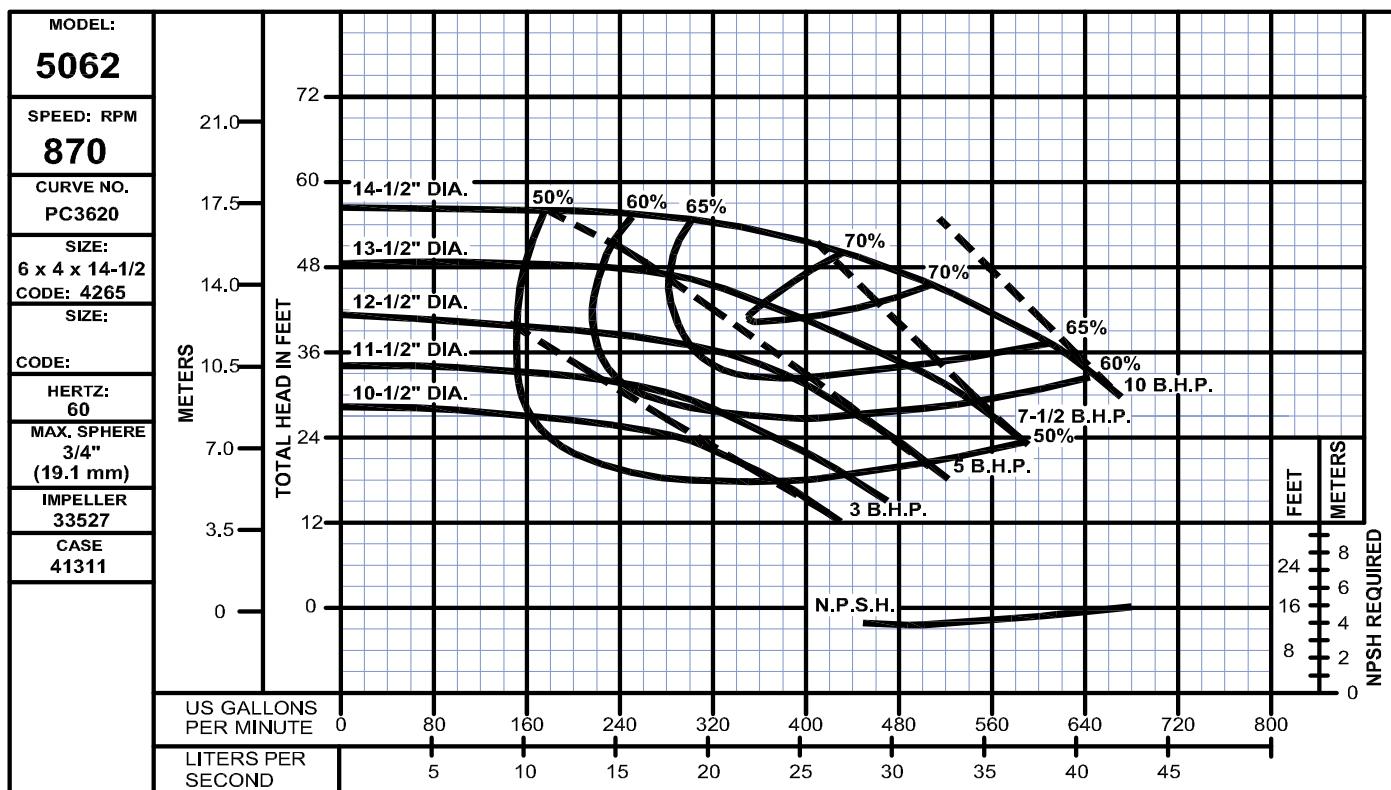
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5062

SIZES: 6 x 4 x 14-1/2, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

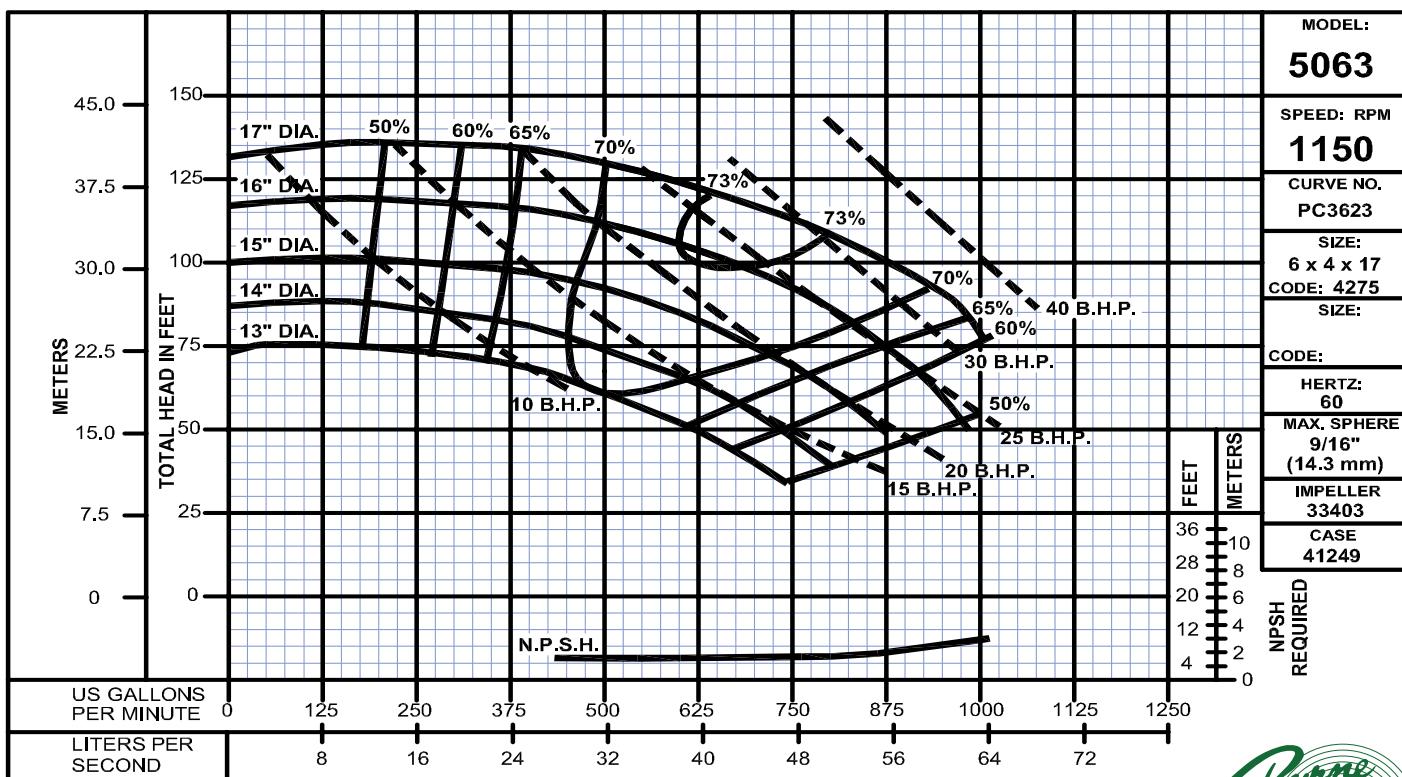
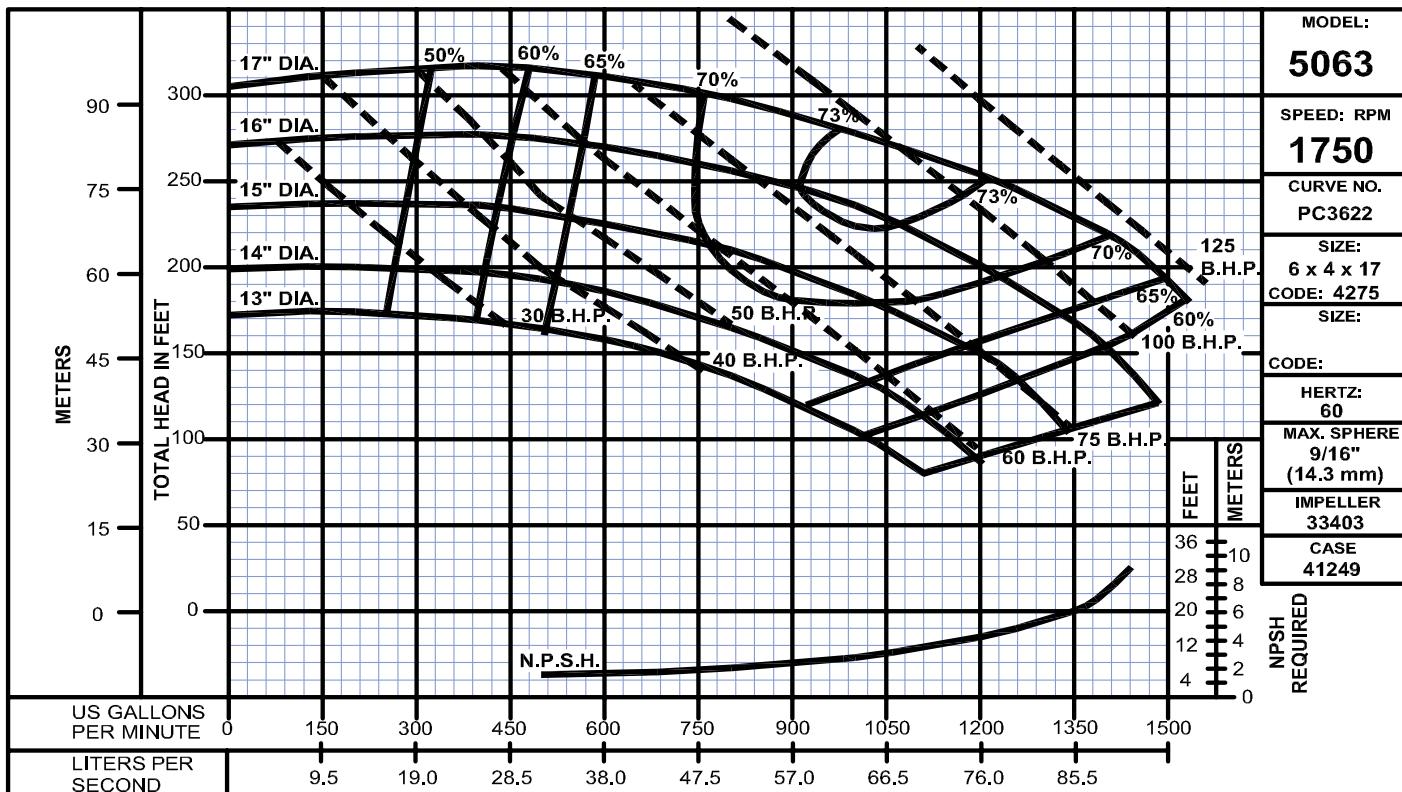


PERFORMANCE CURVE — FIGURE 5063

SIZES: 6 x 4 x 17, 1750 & 1150 RPM

BR

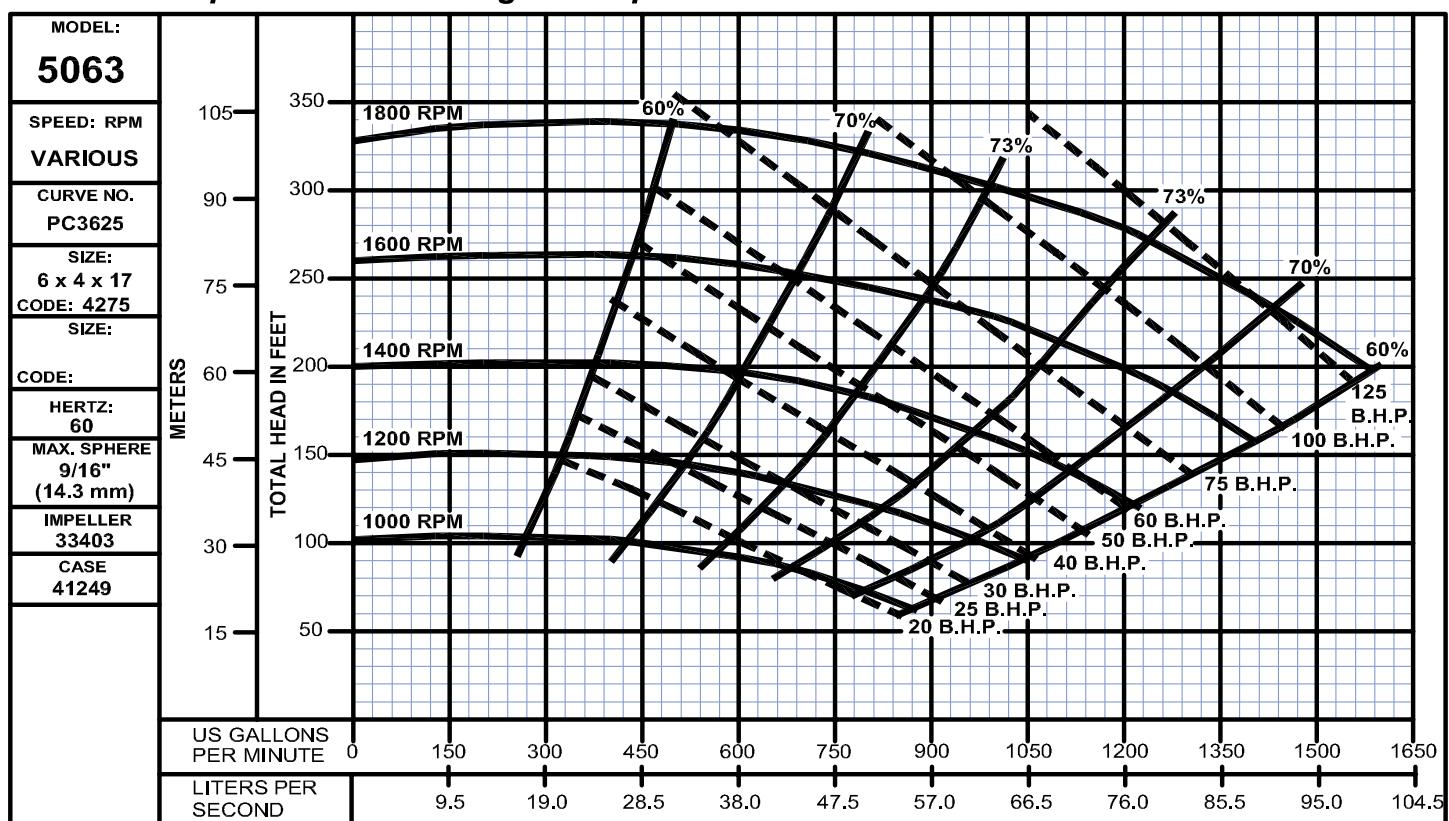
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5063

SIZES: 6 x 4 x 17, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Unite liberality with a just frugality; always reserve something for the hand of charity; and never let your door be closed to the voice of suffering humanity.”

—Patrick Henry



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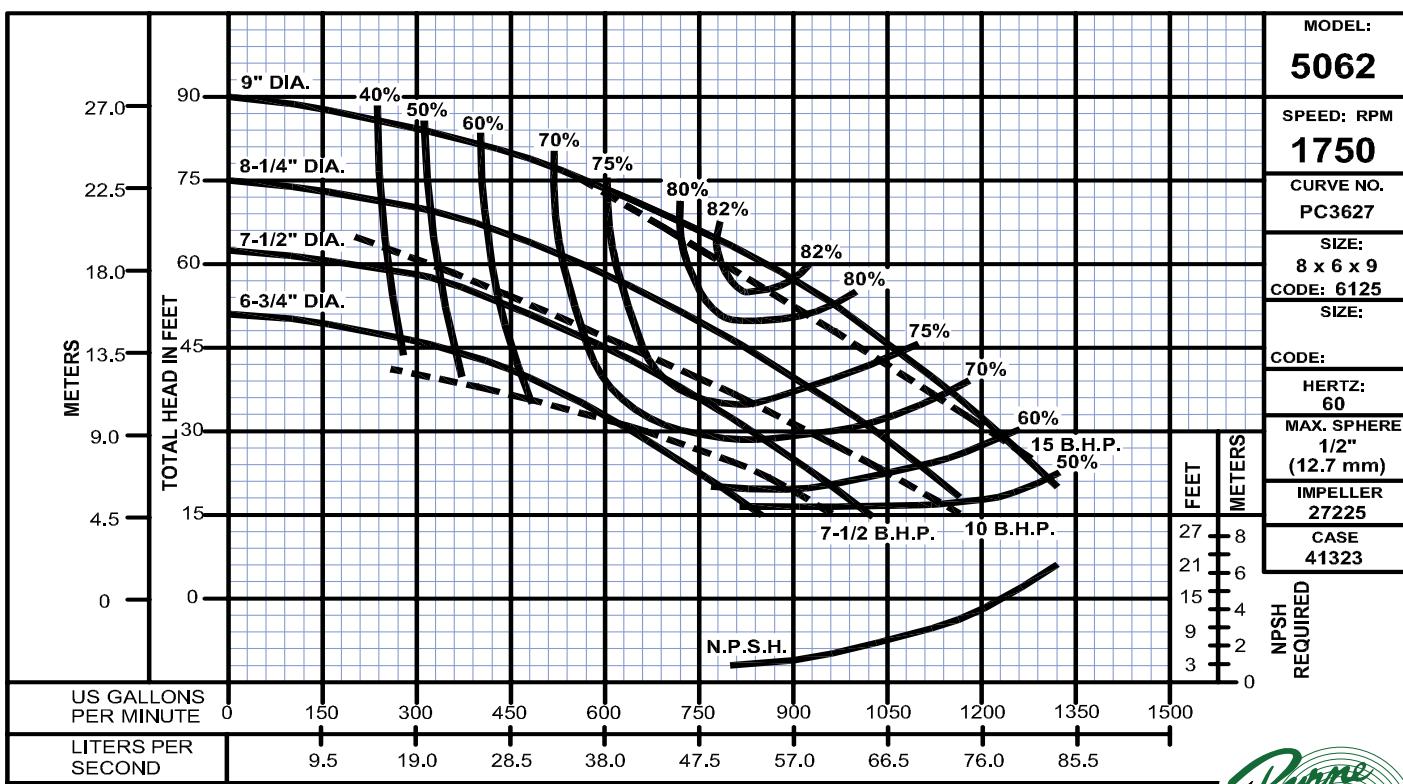
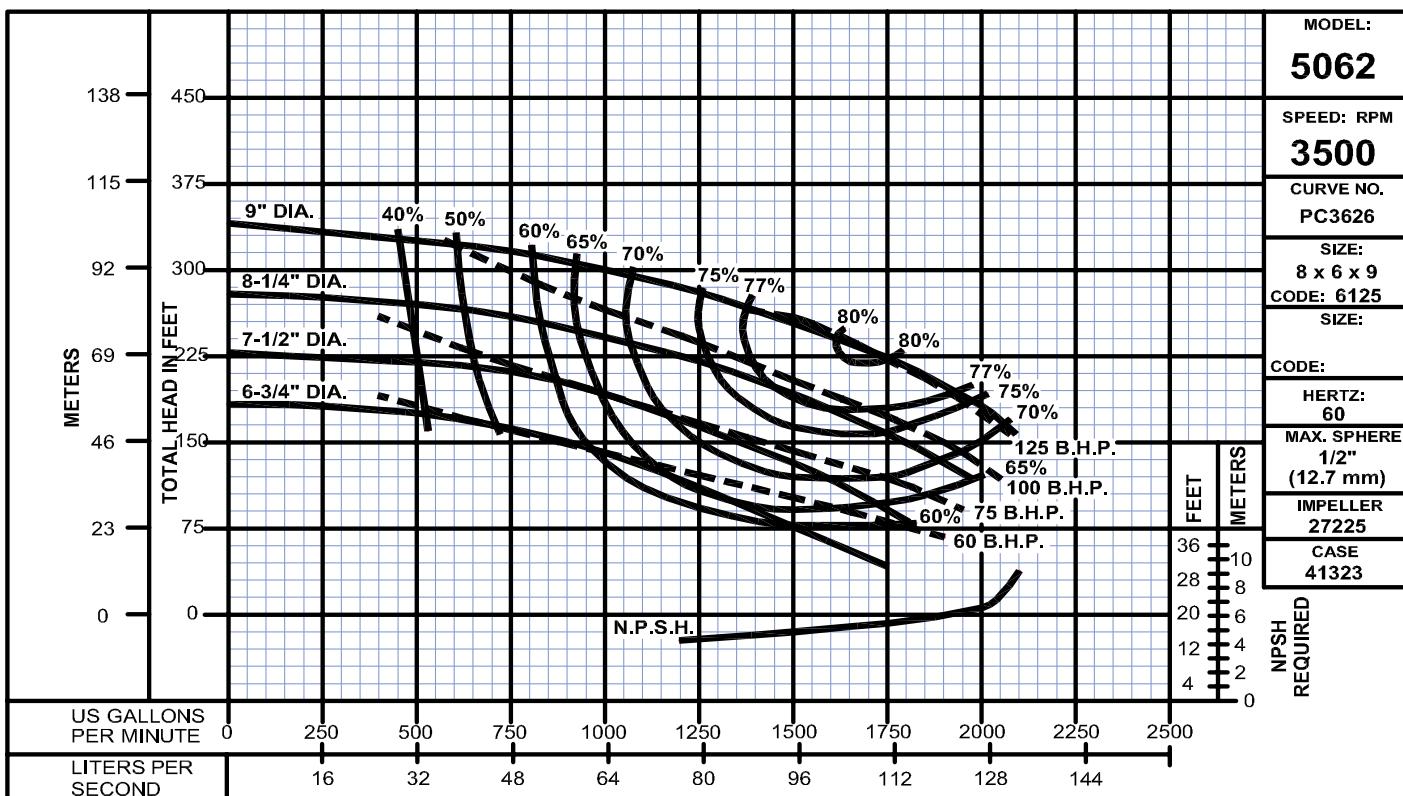
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 8 x 6 x 9, 3500 & 1750 RPM

BR

Horizontal Split Case Centrifugal Pumps



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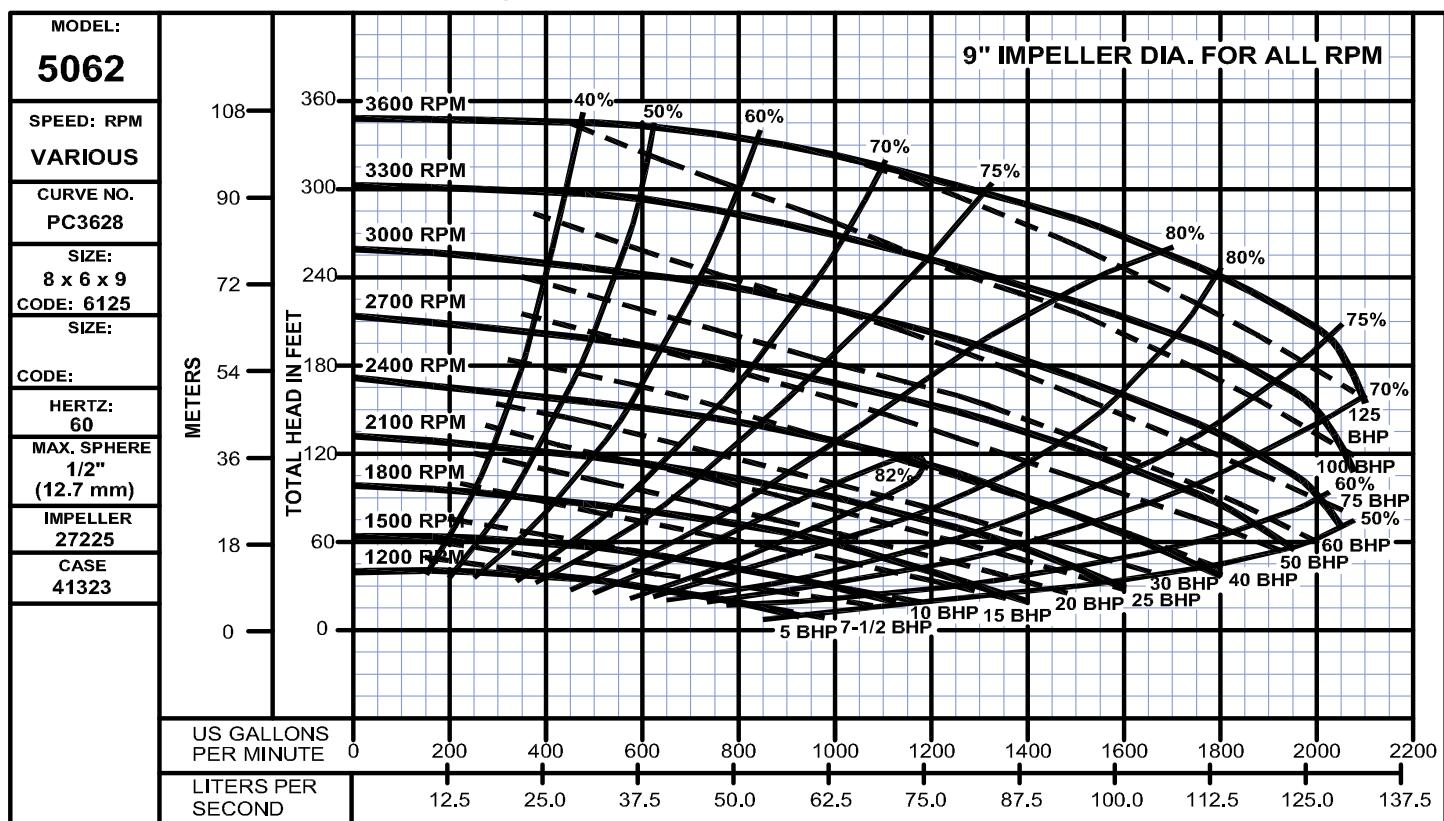
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PERFORMANCE CURVE — FIGURE 5062

SIZES: 8 x 6 x 9, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“I have had many anxieties for our commonwealth, principally occasioned by the depreciation of our money.”

—Patrick Henry



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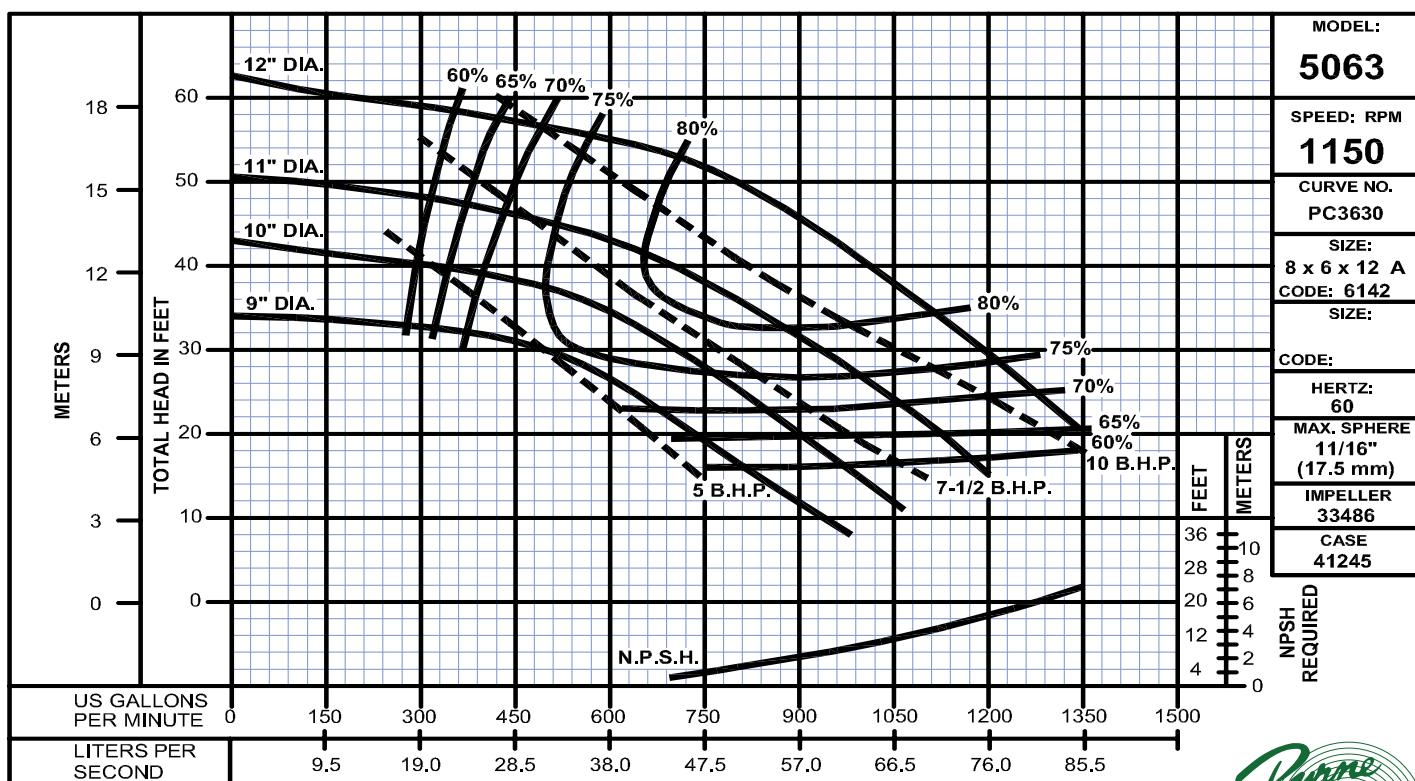
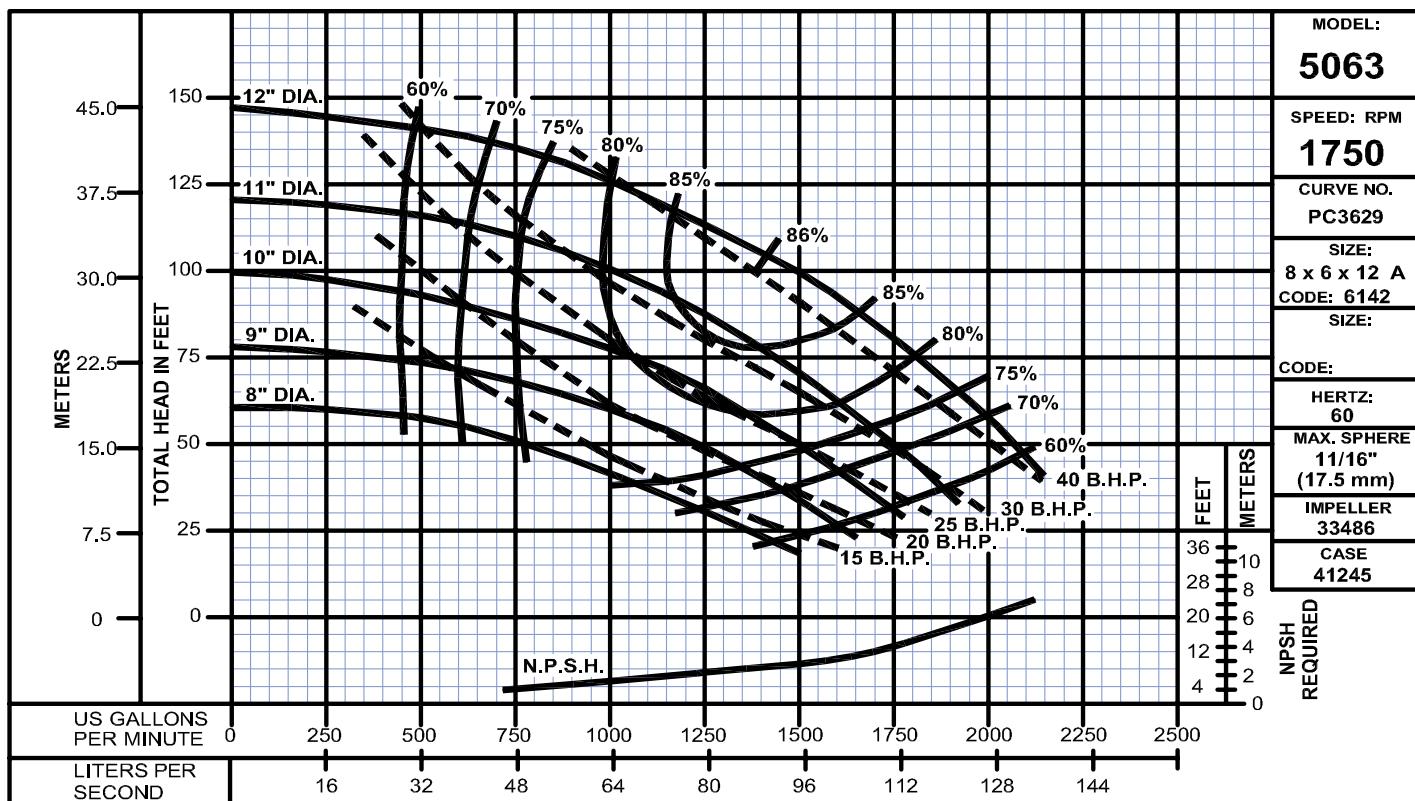
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 12, 1750 & 1150 RPM

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Horizontal Split Case Centrifugal Pumps



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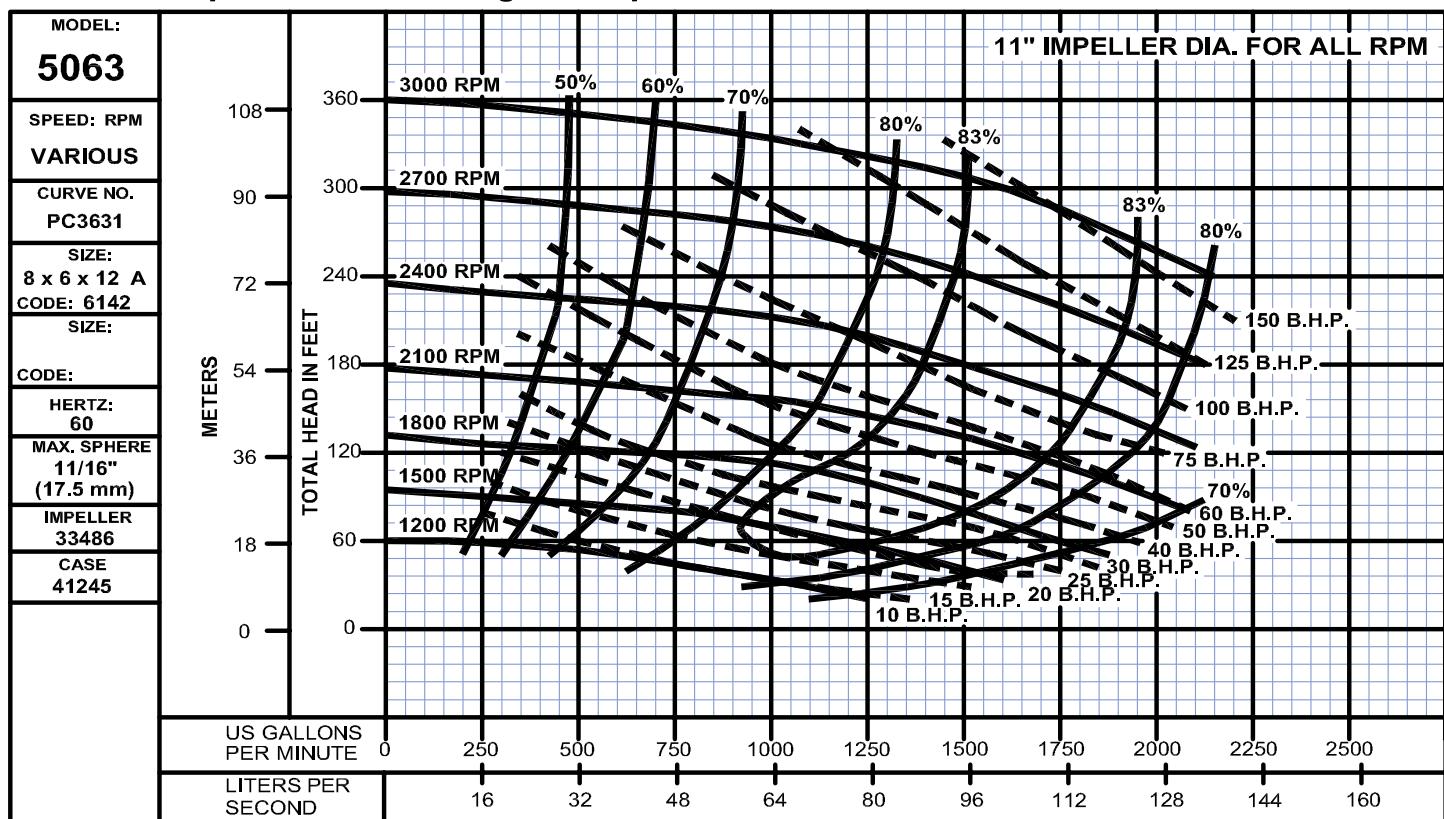
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 12, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“The liberties of a people never were, nor ever will be, secure, when the transactions of their rulers may be concealed from them.”

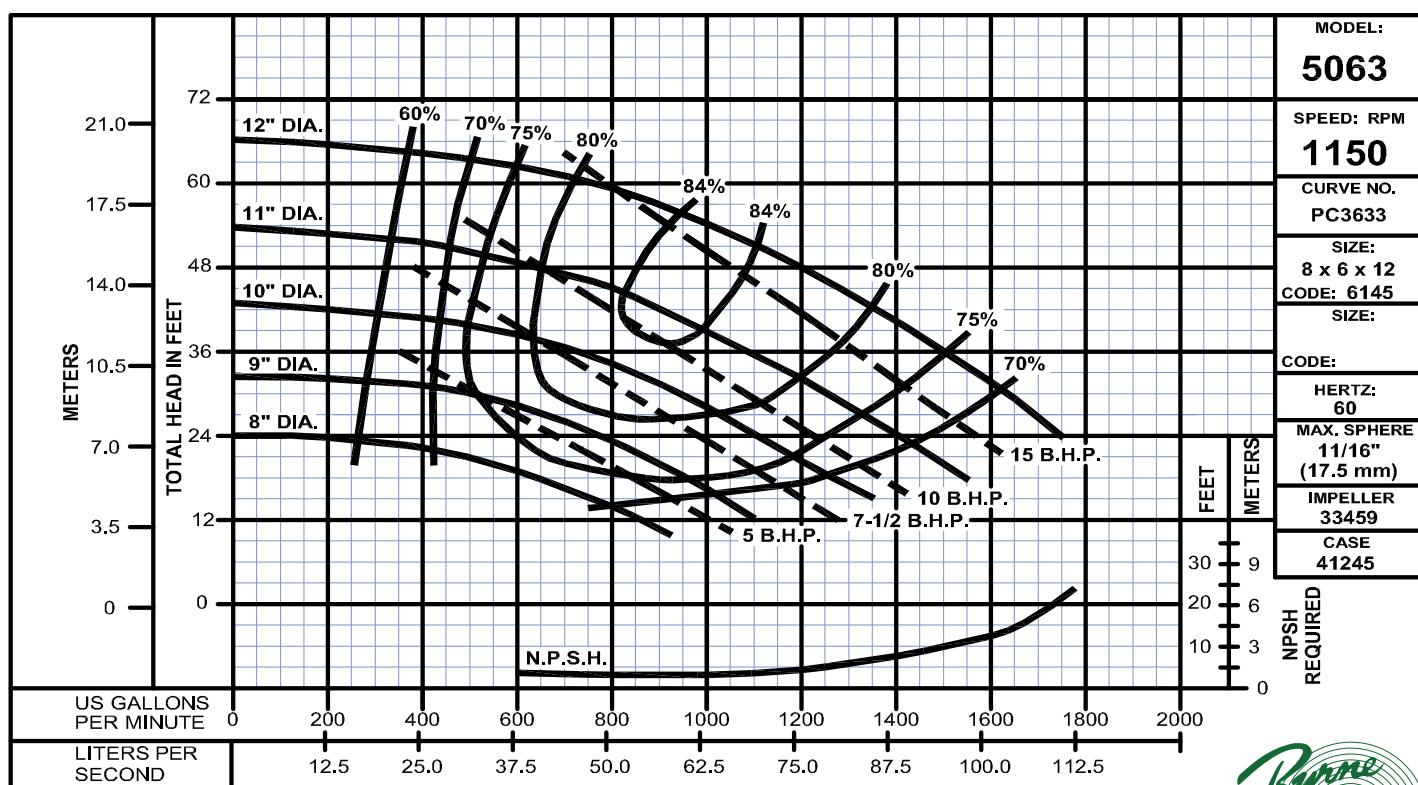
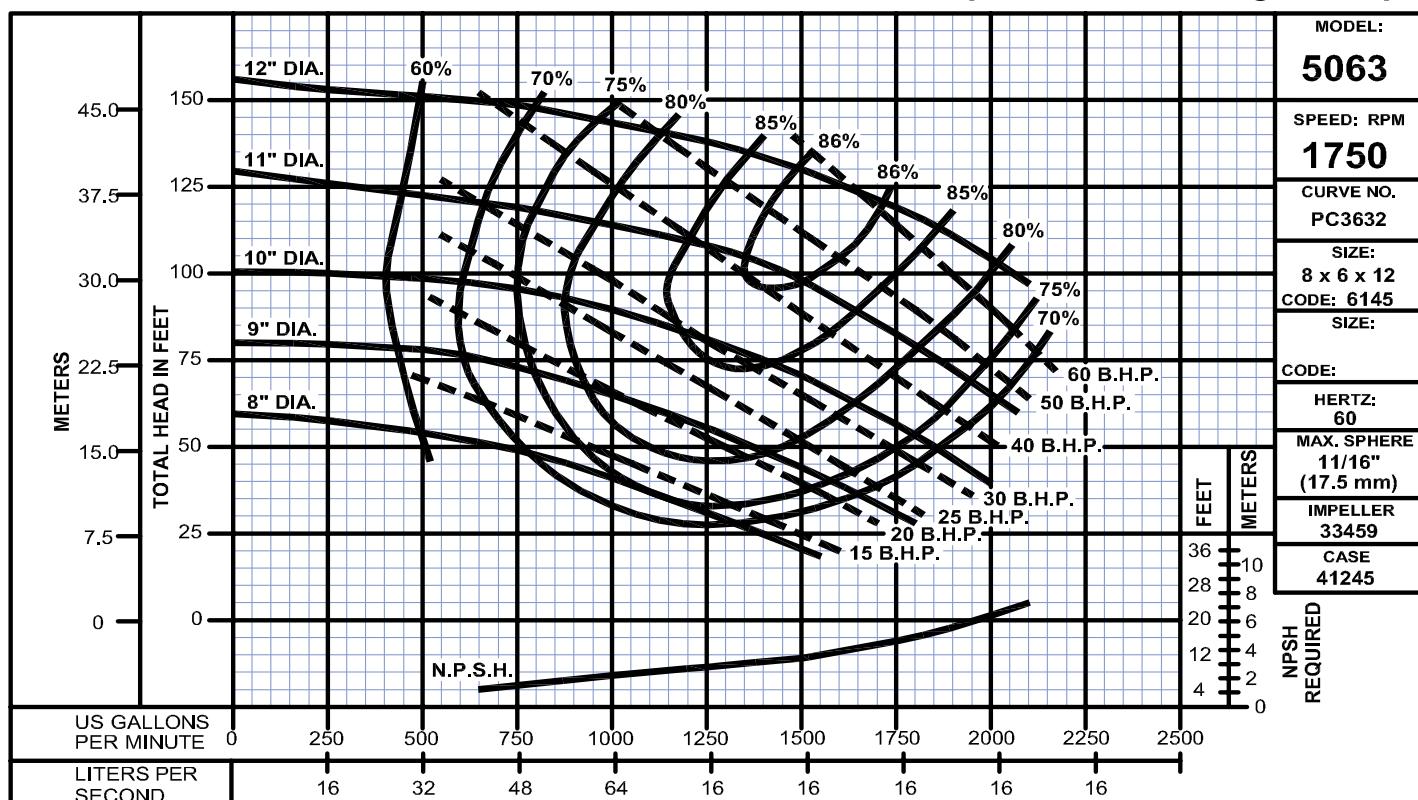
—Patrick Henry



PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 12, 1750 & 1150 RPM

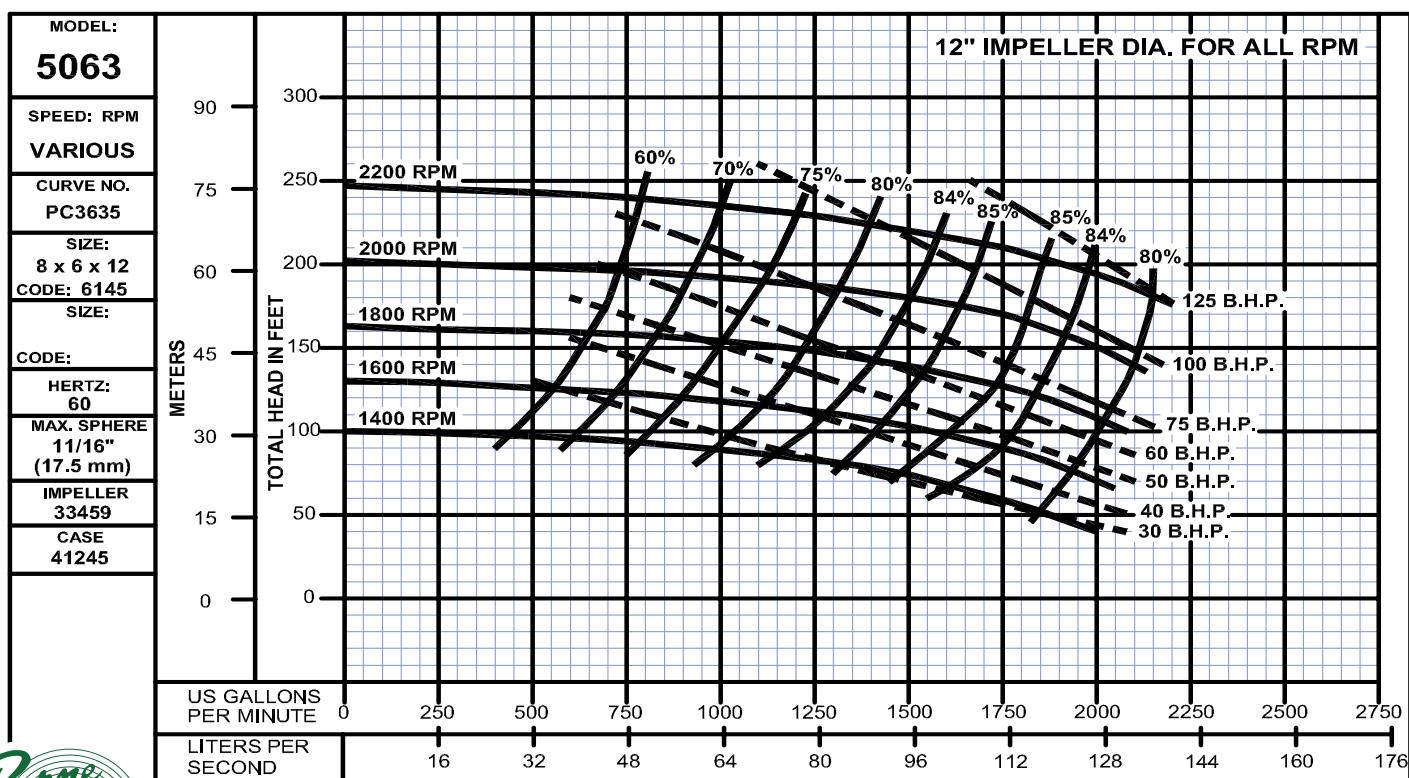
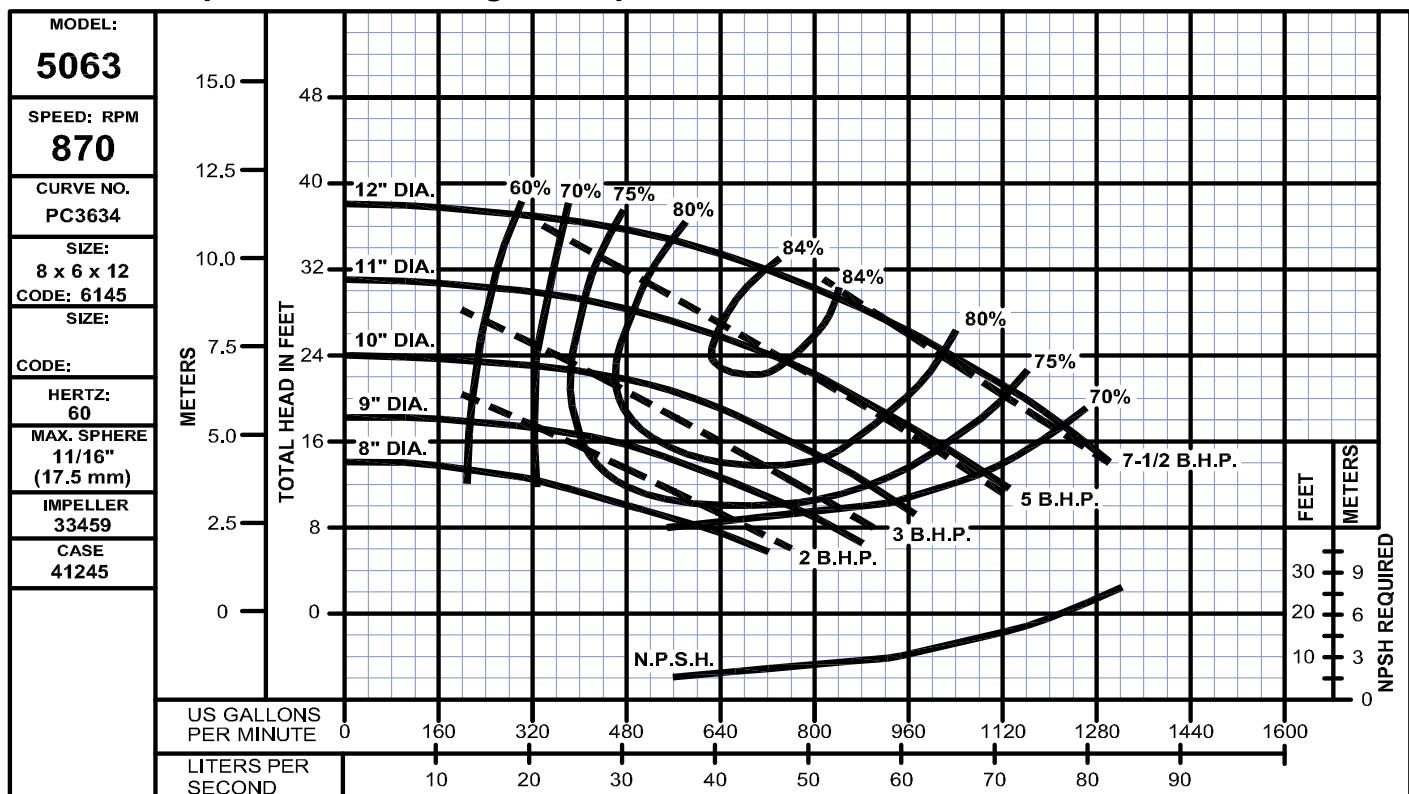
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 12, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

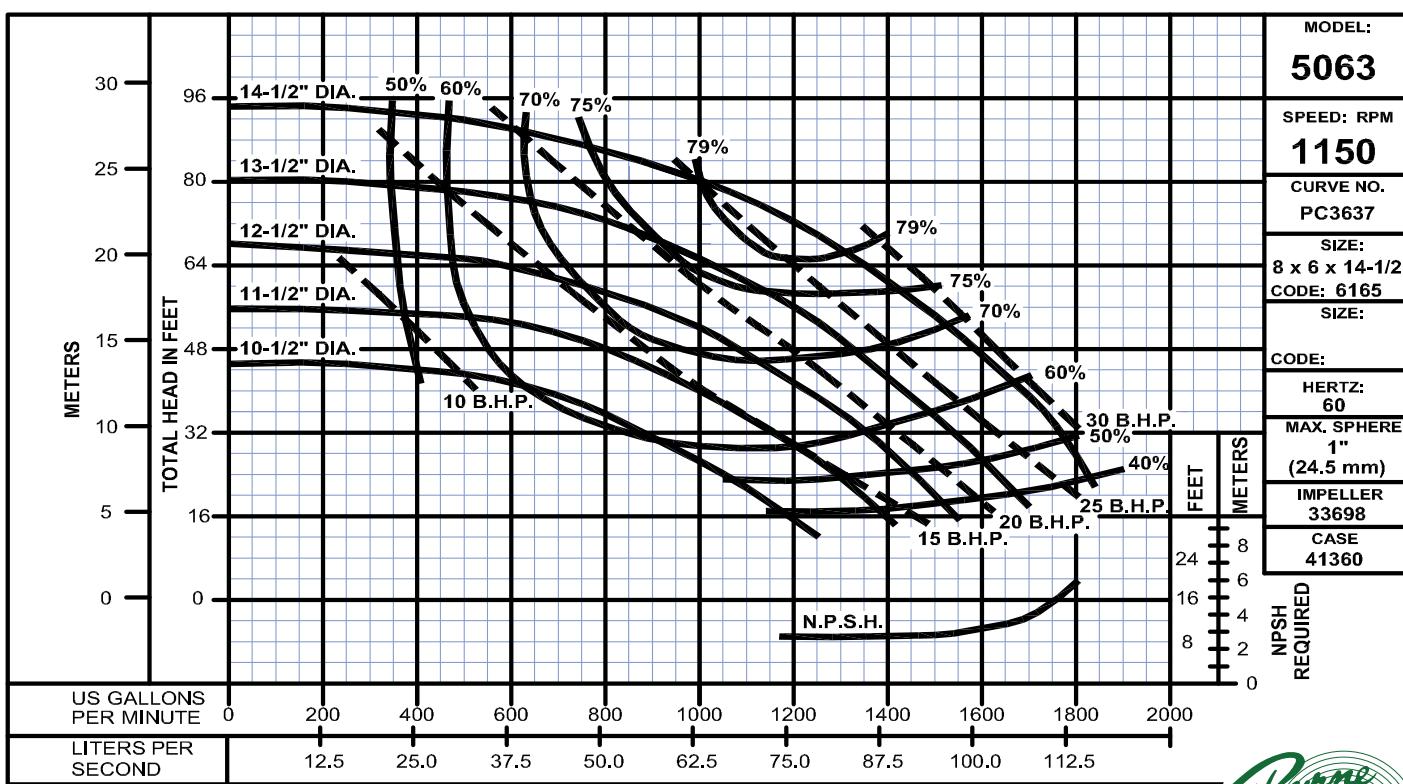
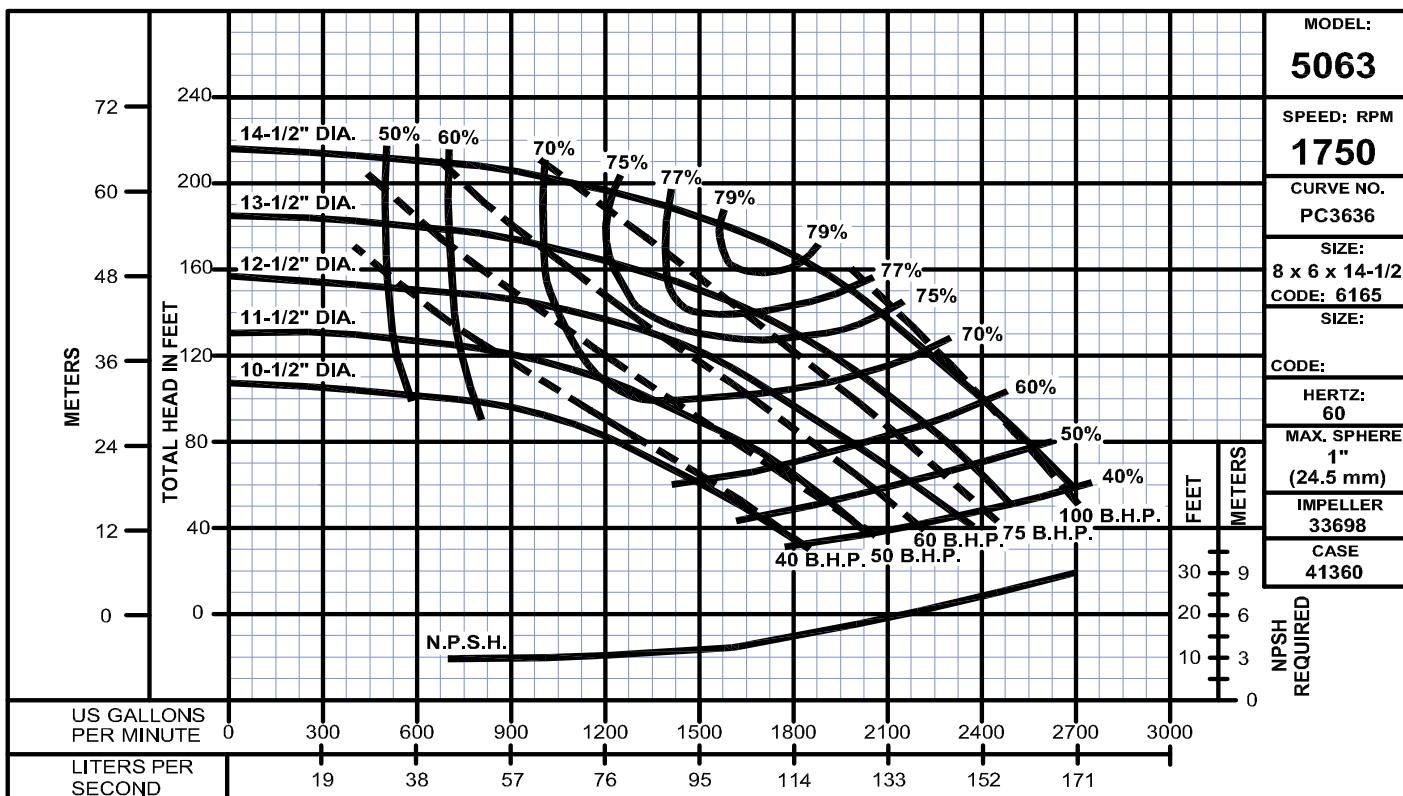


PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 14-1/2, 1750 & 1150 RPM

BR

Horizontal Split Case Centrifugal Pumps



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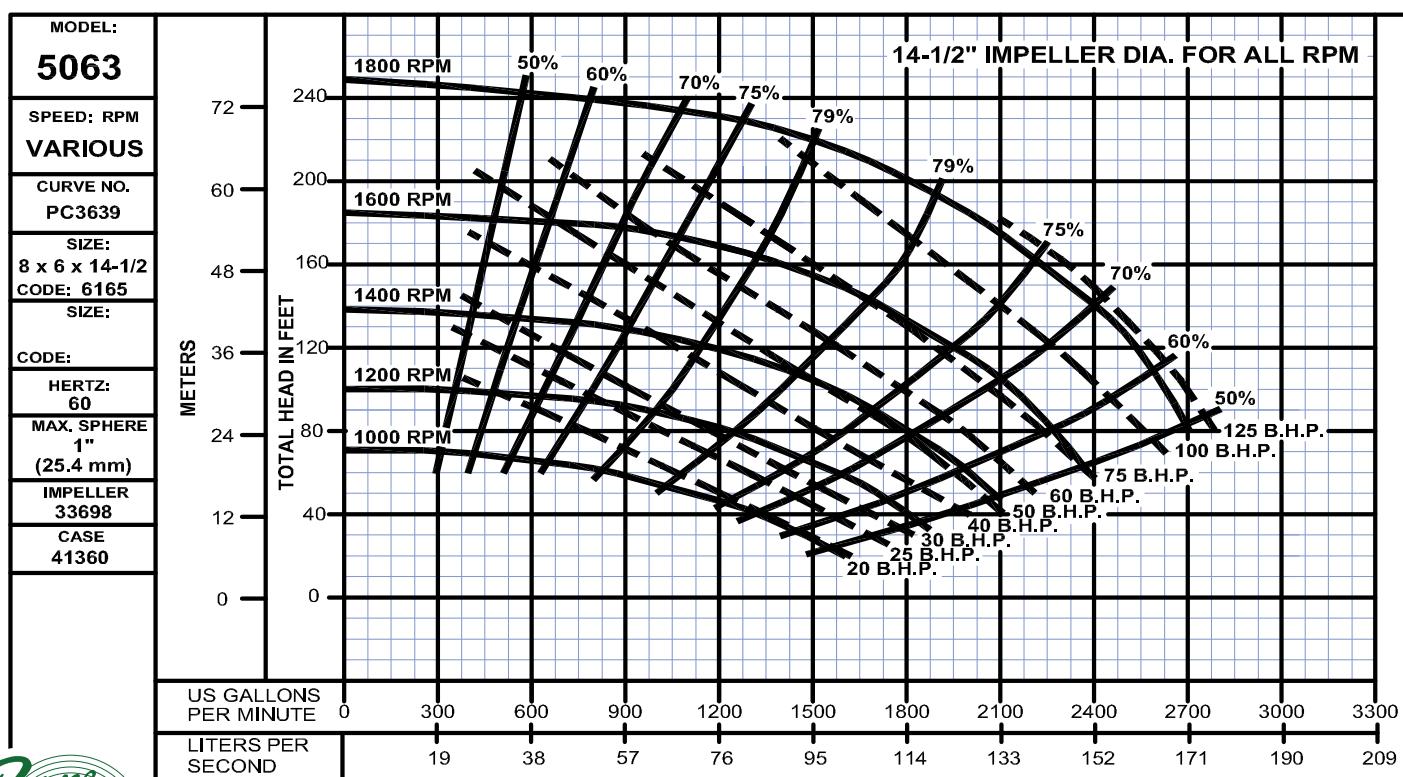
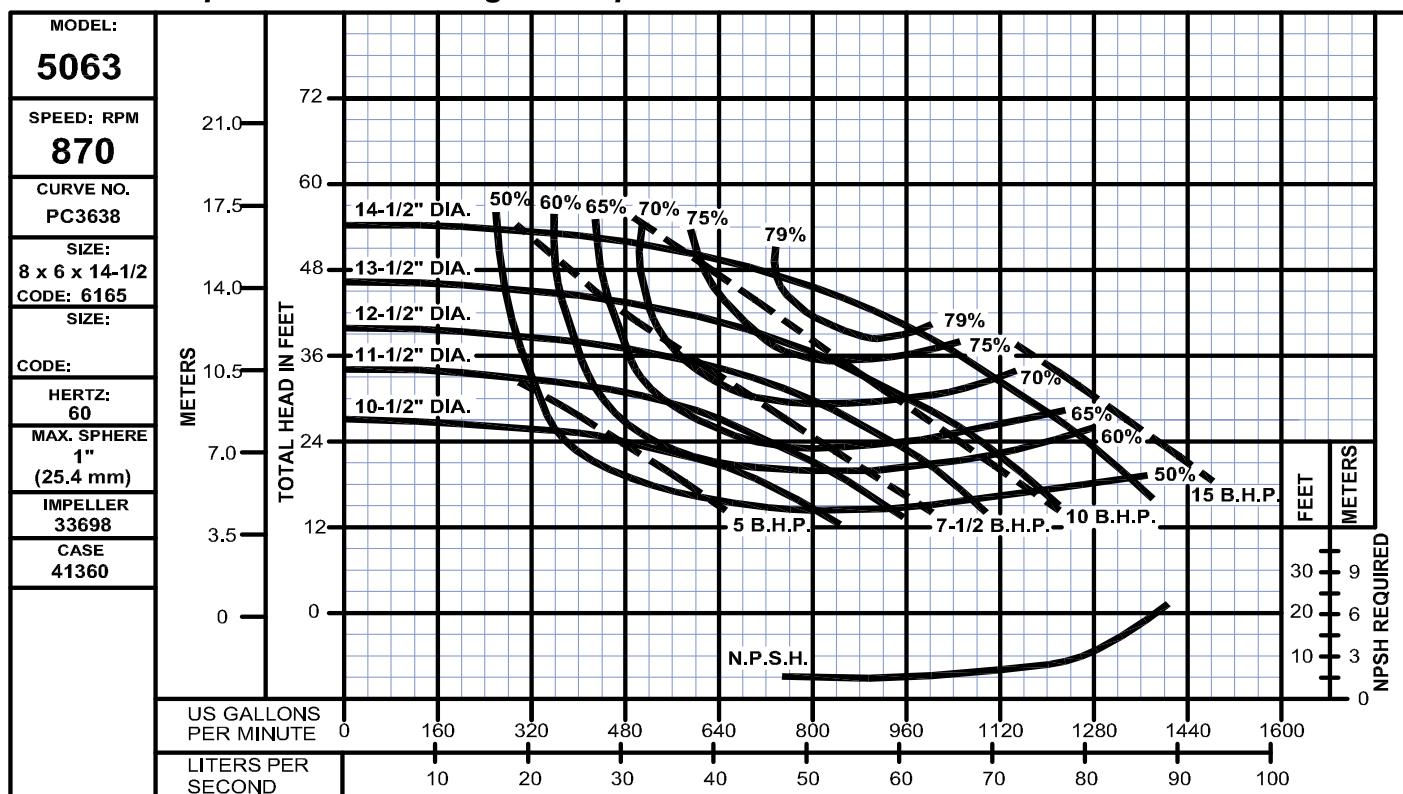
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 14-1/2, 870 & VARIOUS RPM

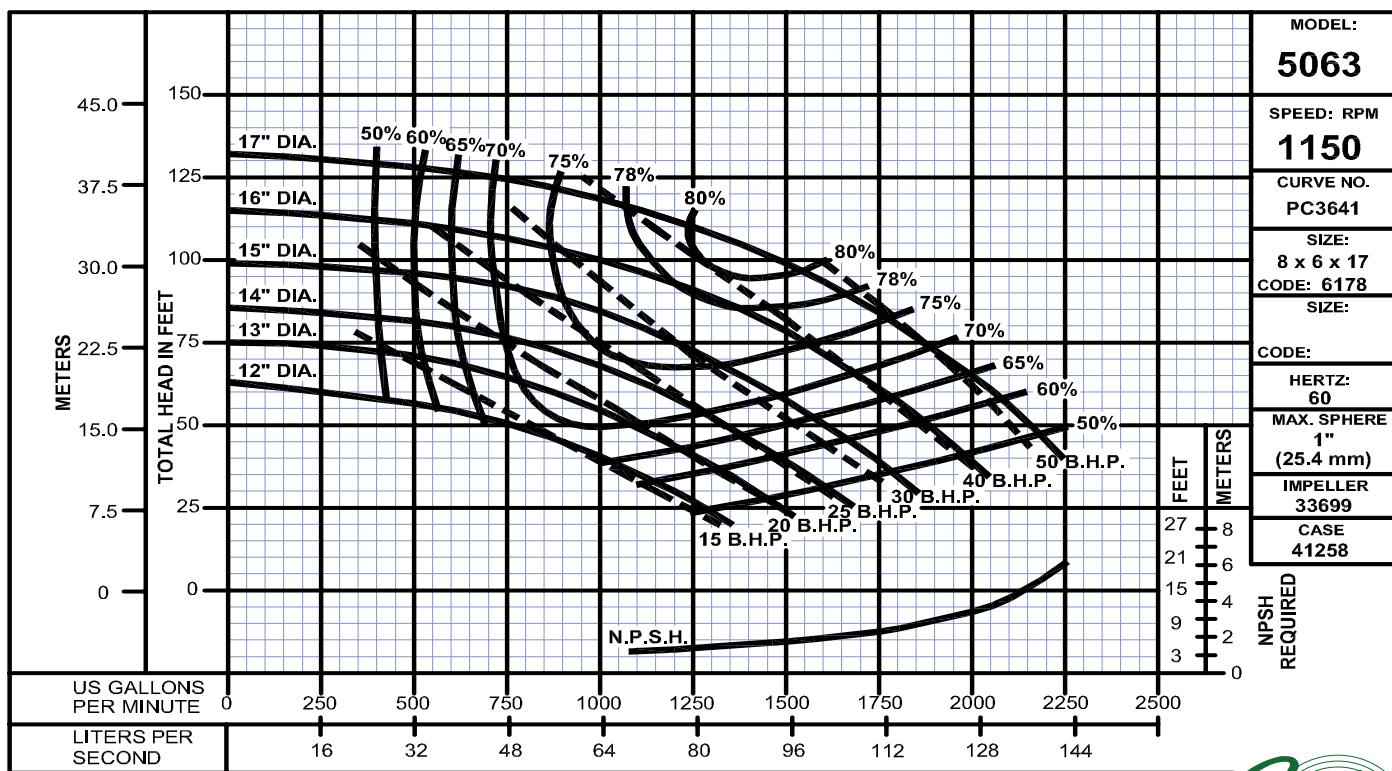
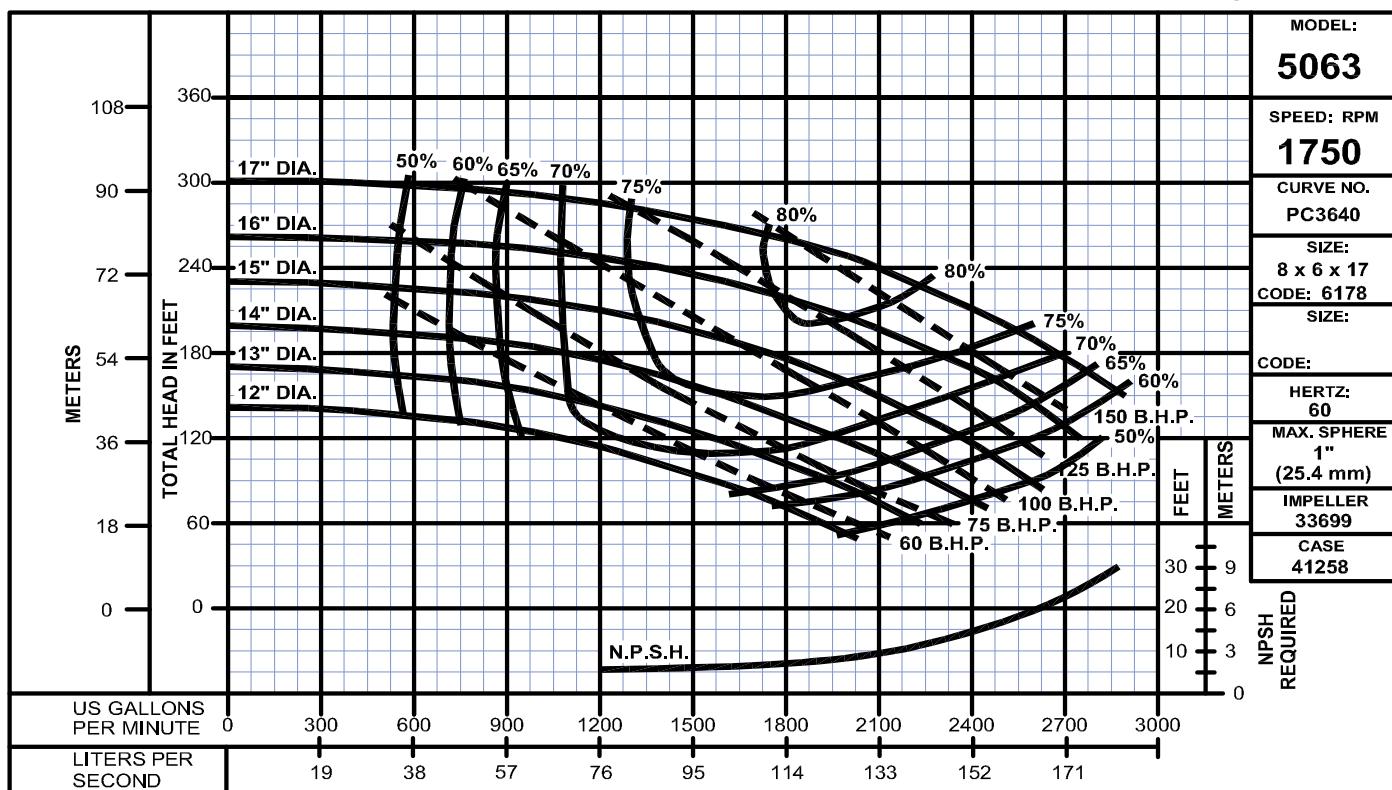
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 17, 1750 & 1150 RPM

Horizontal Split Case Centrifugal Pumps



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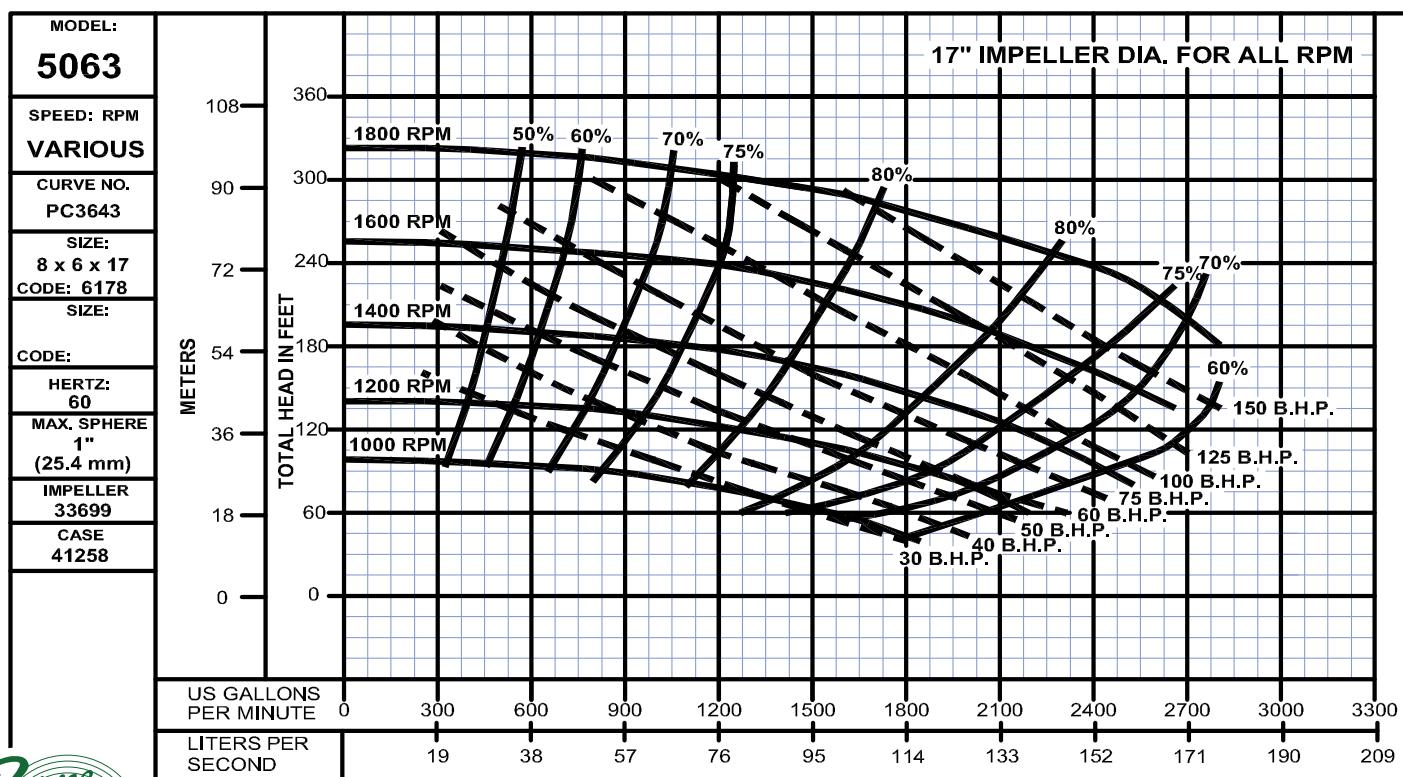
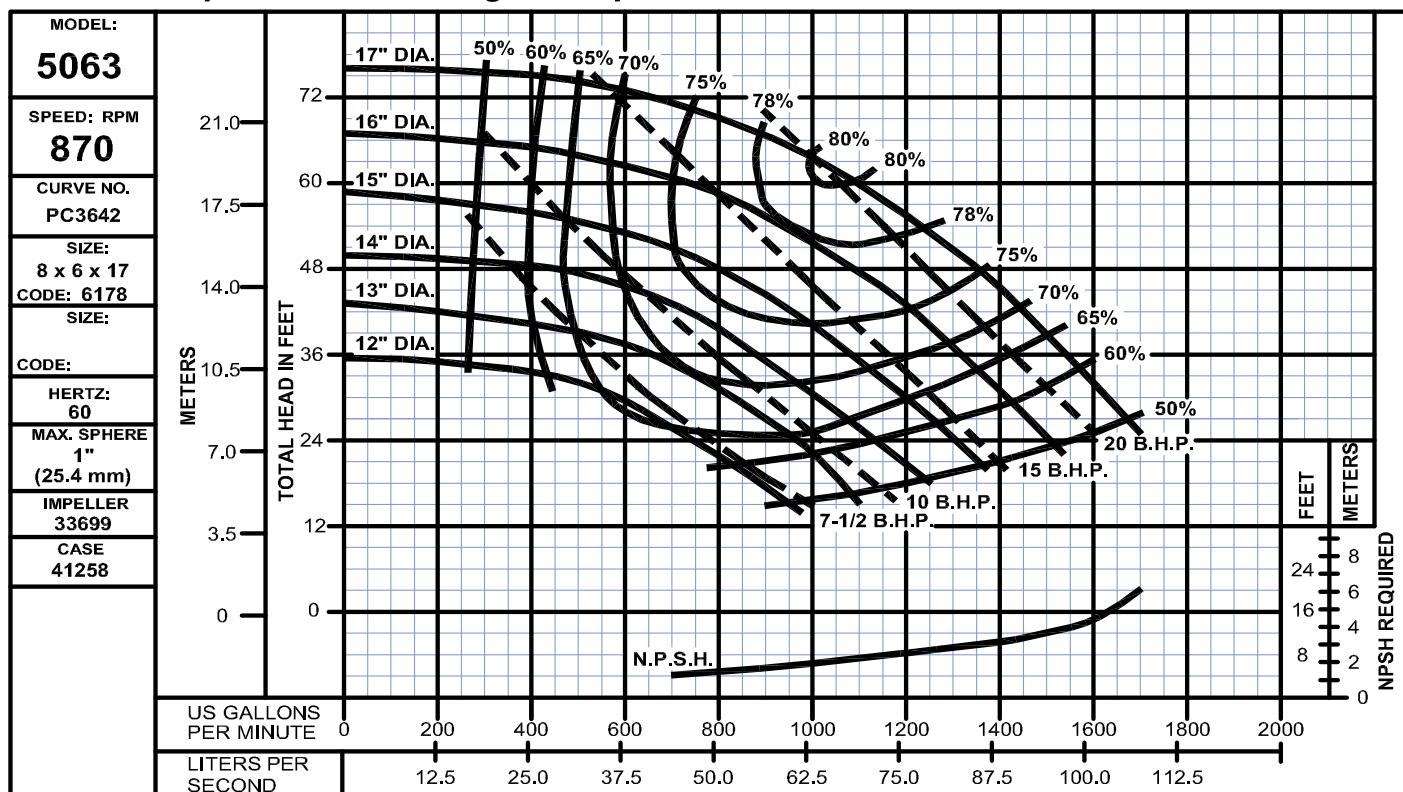
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 8 x 6 x 17, 870 & VARIOUS RPM

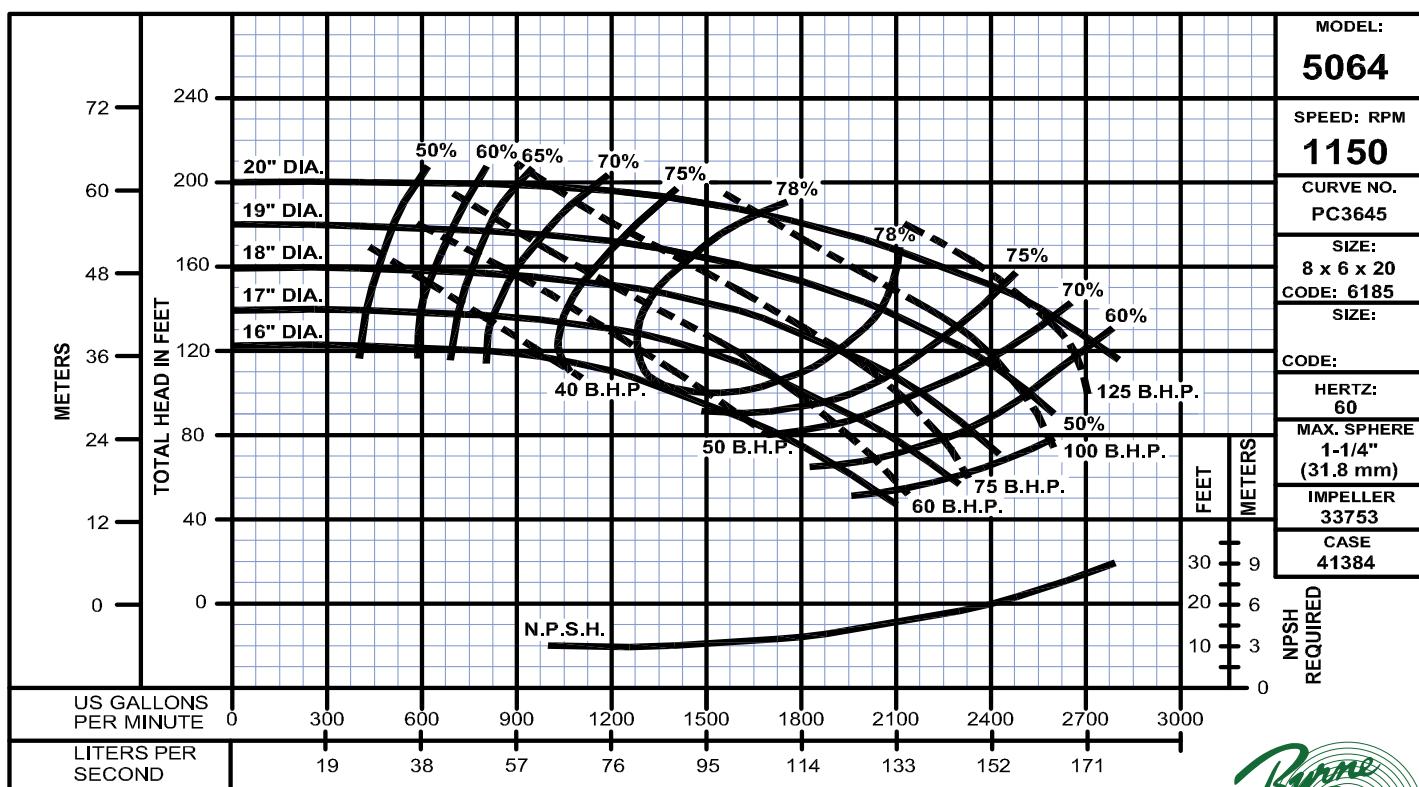
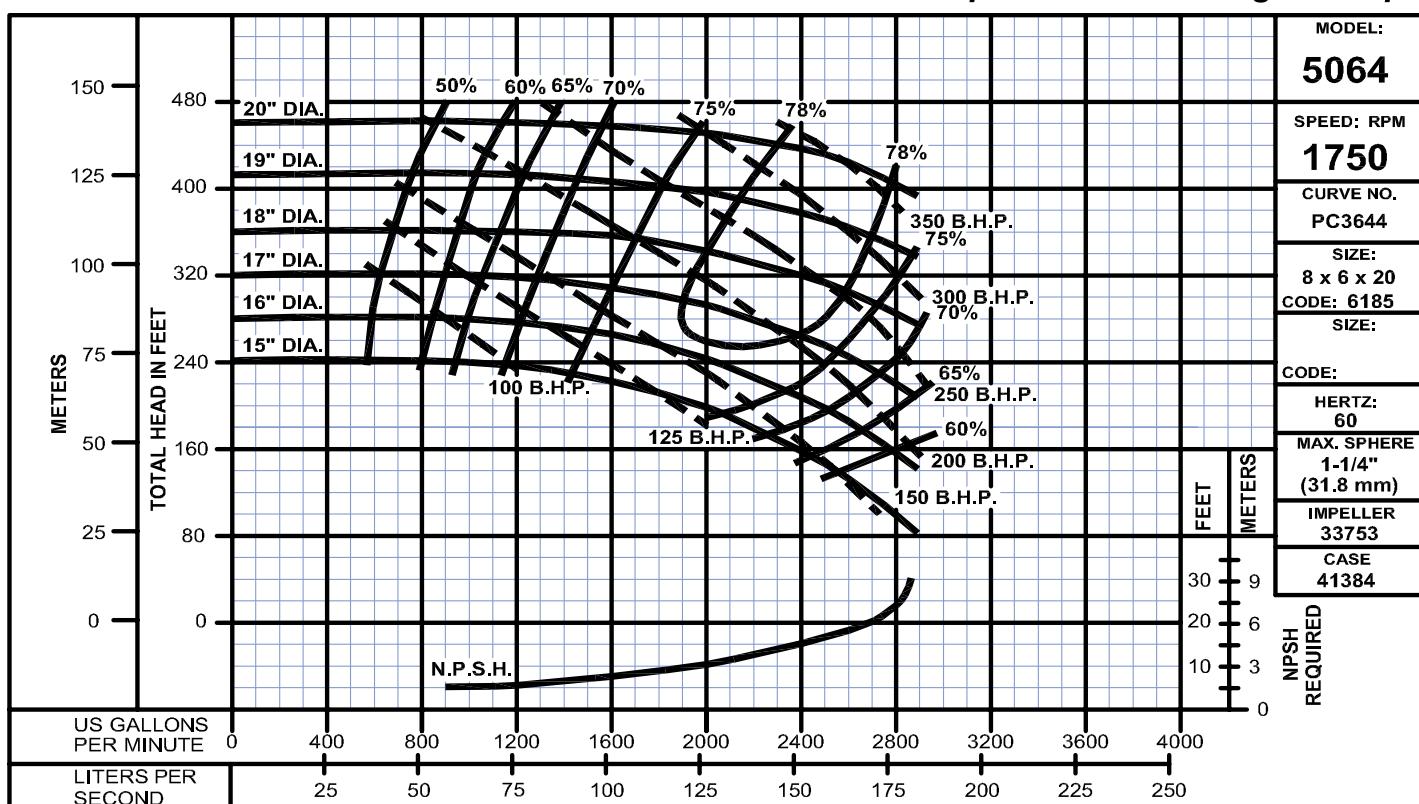
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064

SIZES: 8 x 6 x 20, 1750 & 1150 RPM

Horizontal Split Case Centrifugal Pumps



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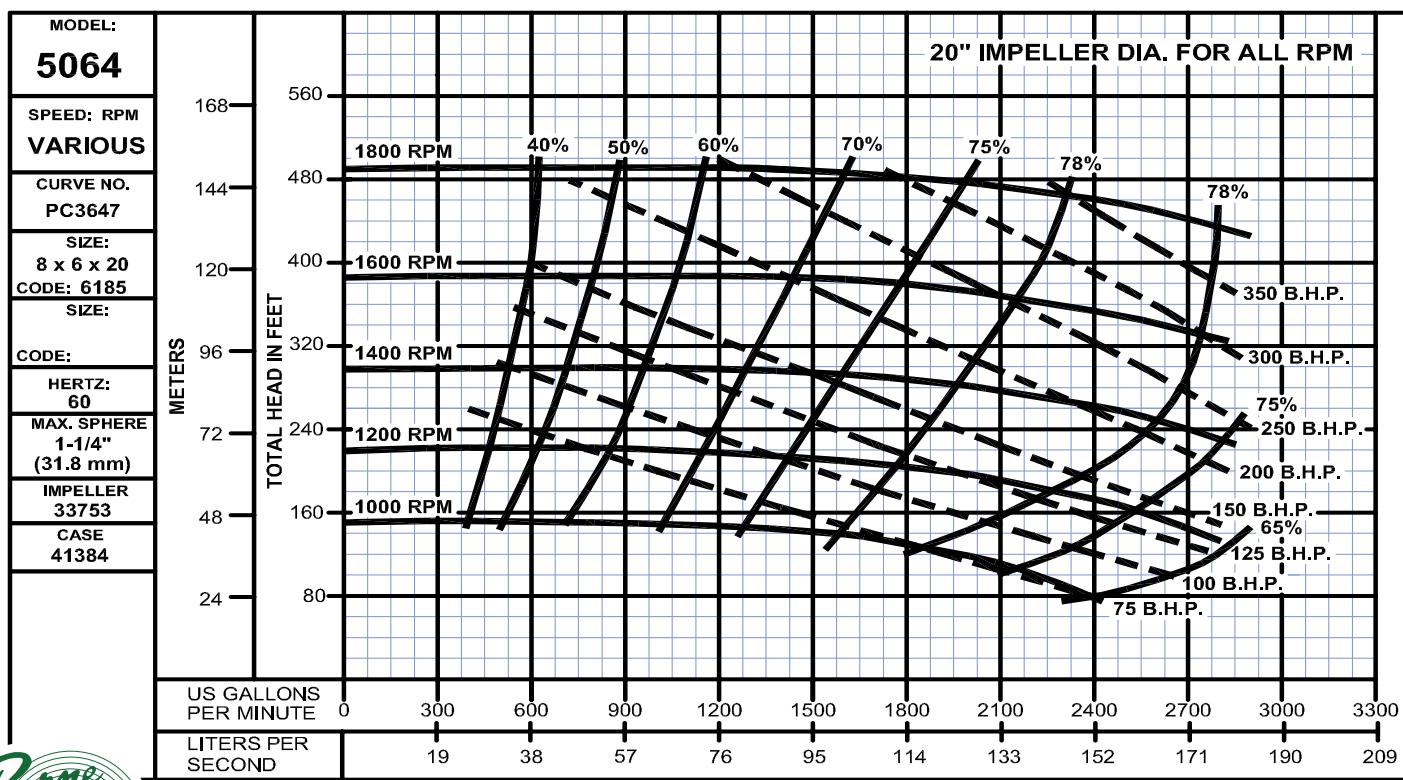
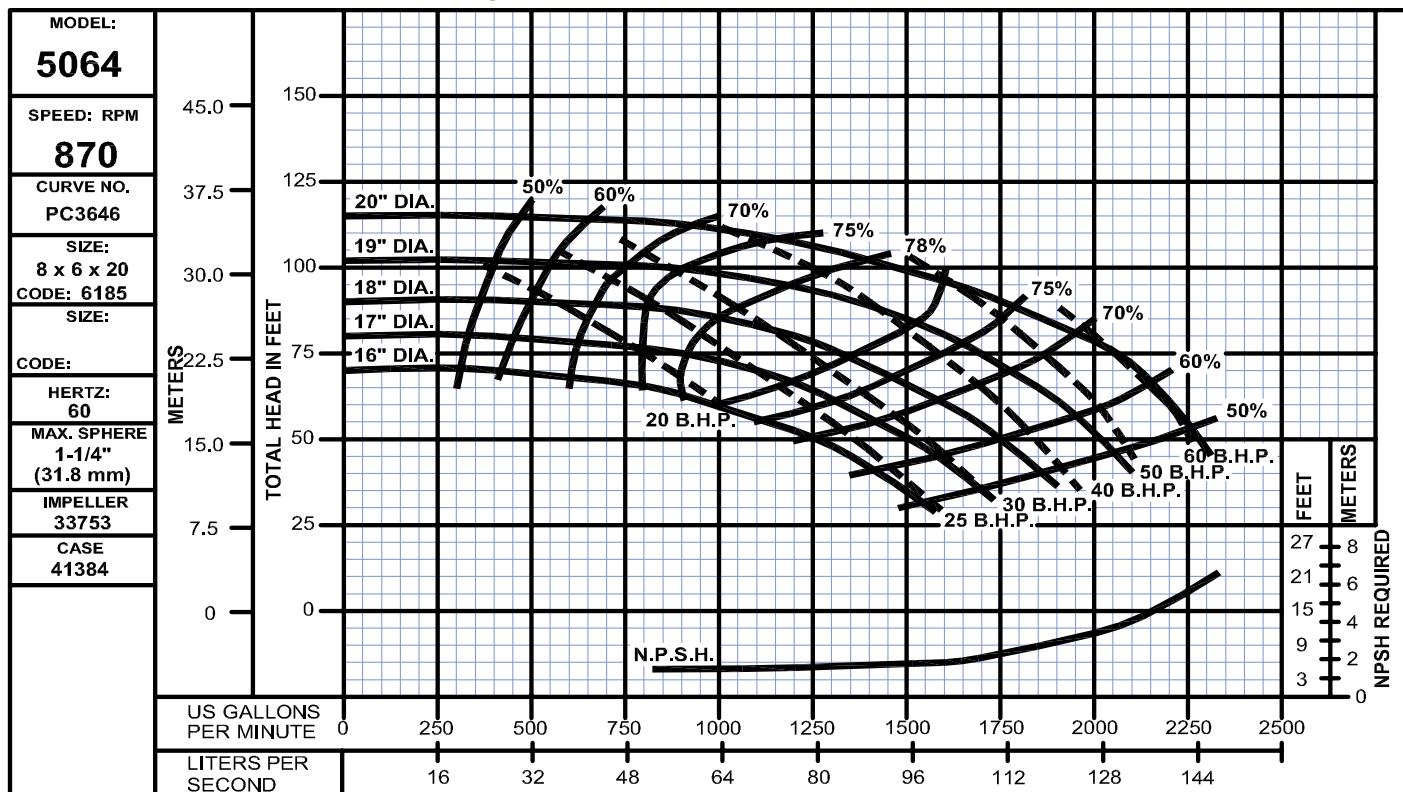
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 8 x 6 x 20, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

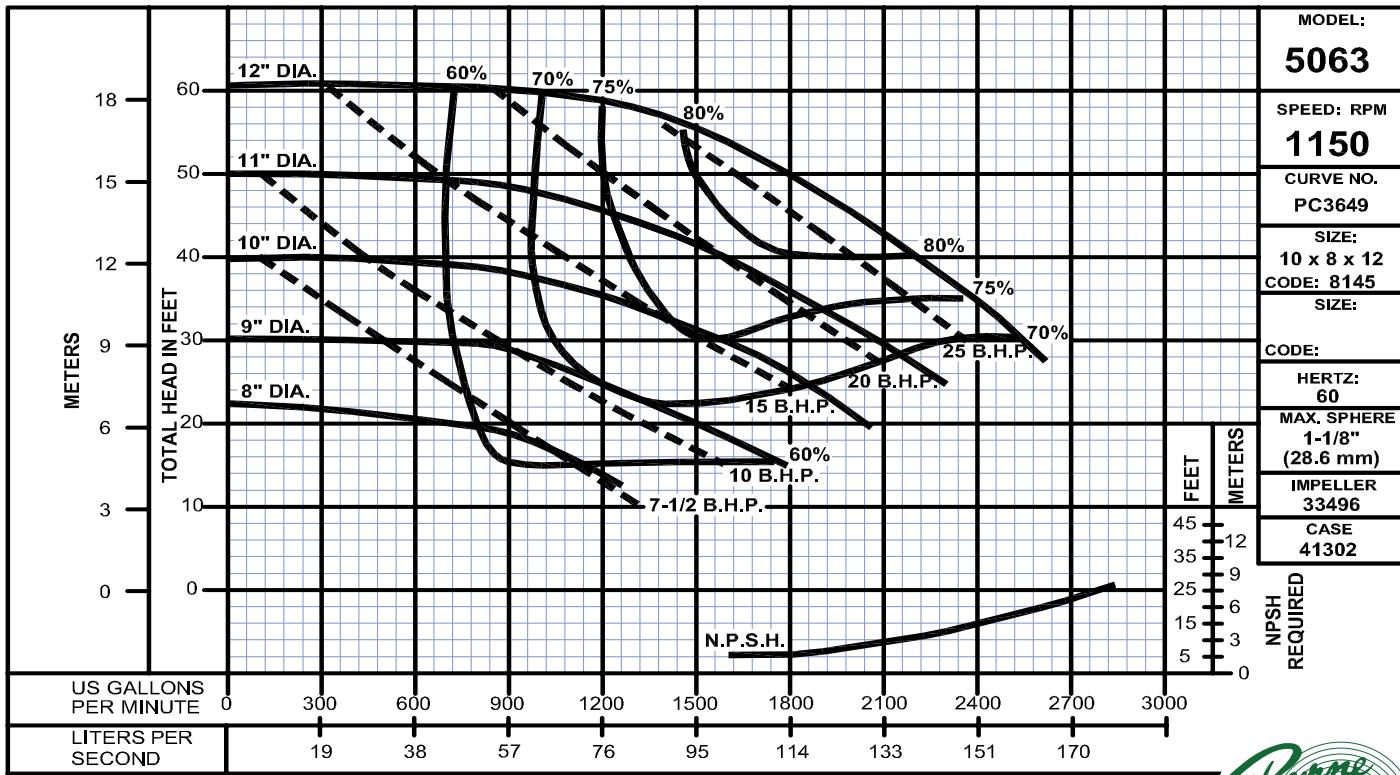
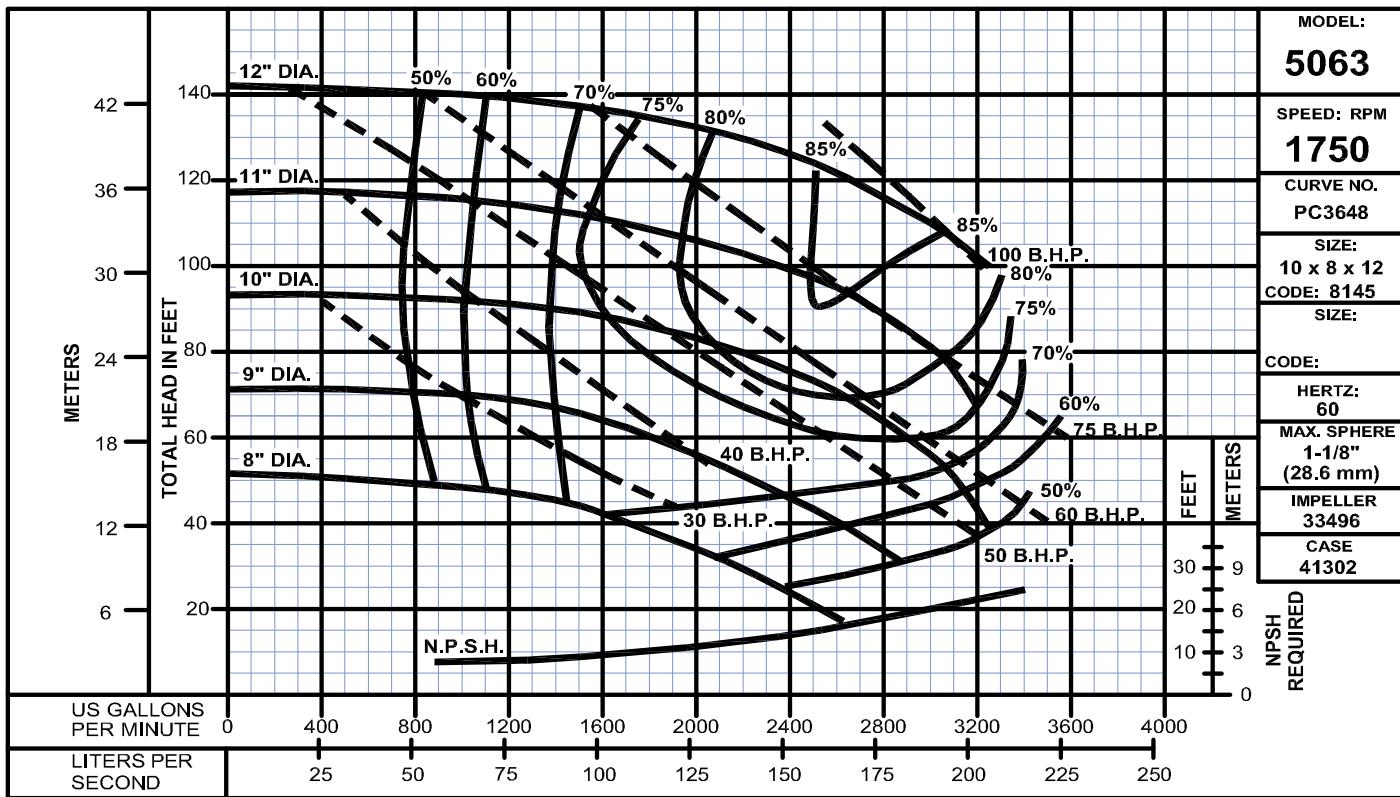


PERFORMANCE CURVE — FIGURE 5063

SIZES: 10 x 8 x 12, 1750 & 1150 RPM

BR

Horizontal Split Case Centrifugal Pumps



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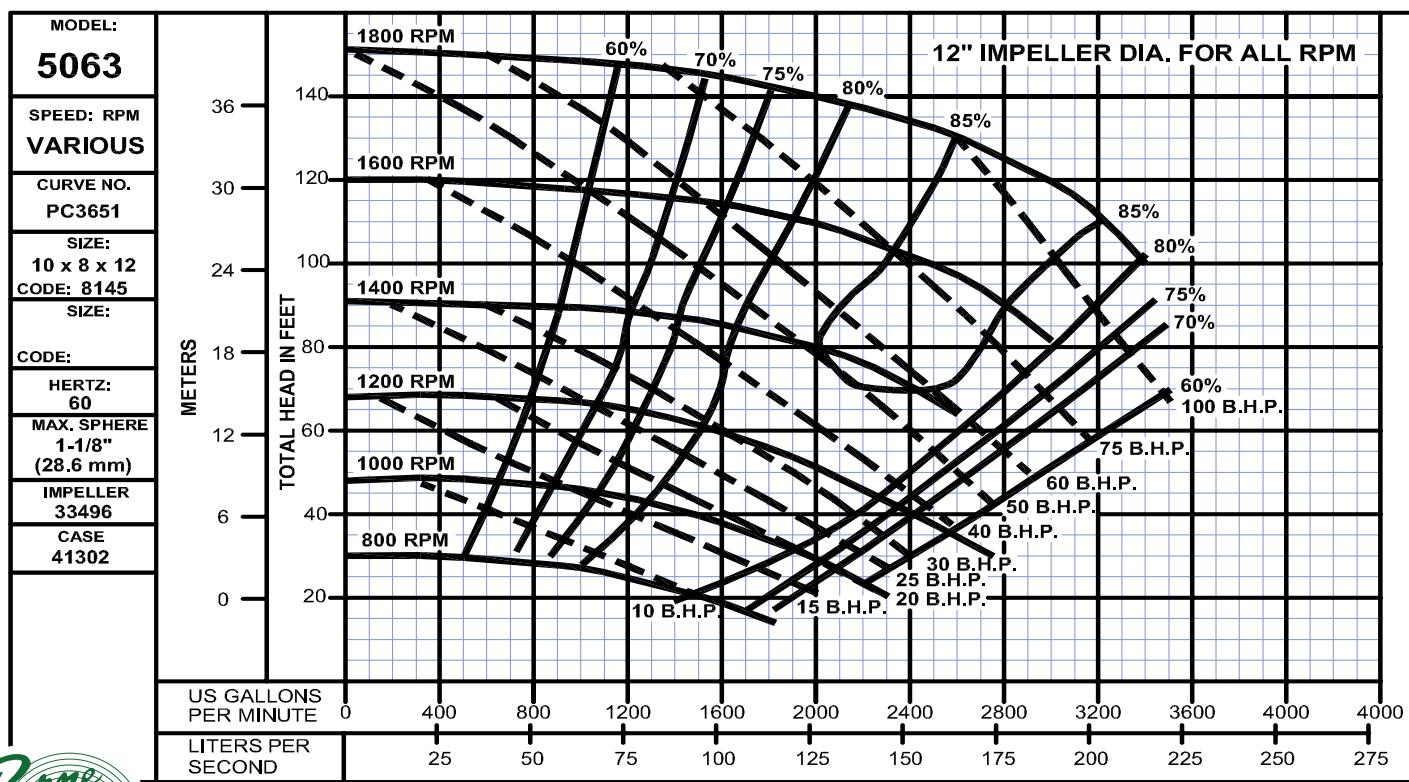
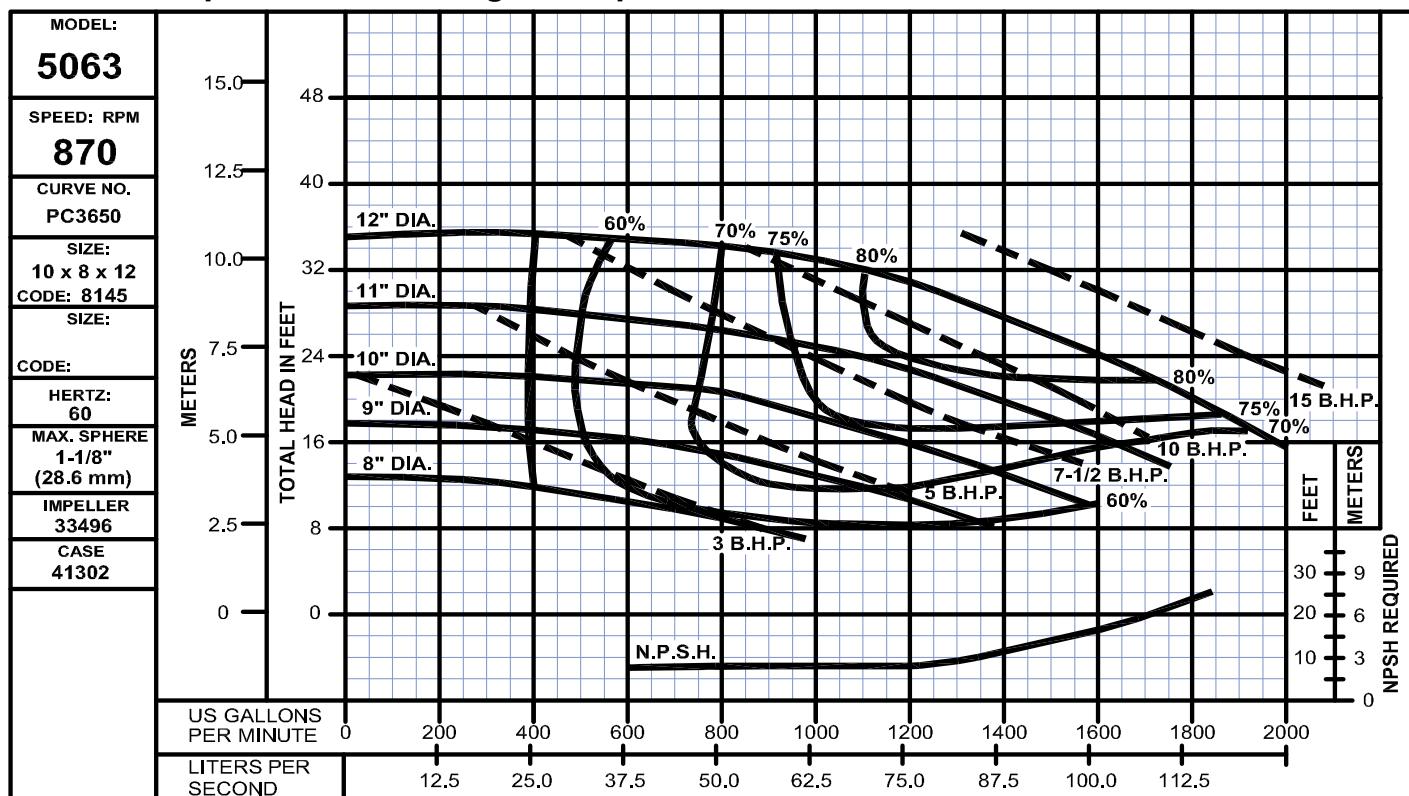
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 10 x 8 x 12, 870 & VARIOUS RPM

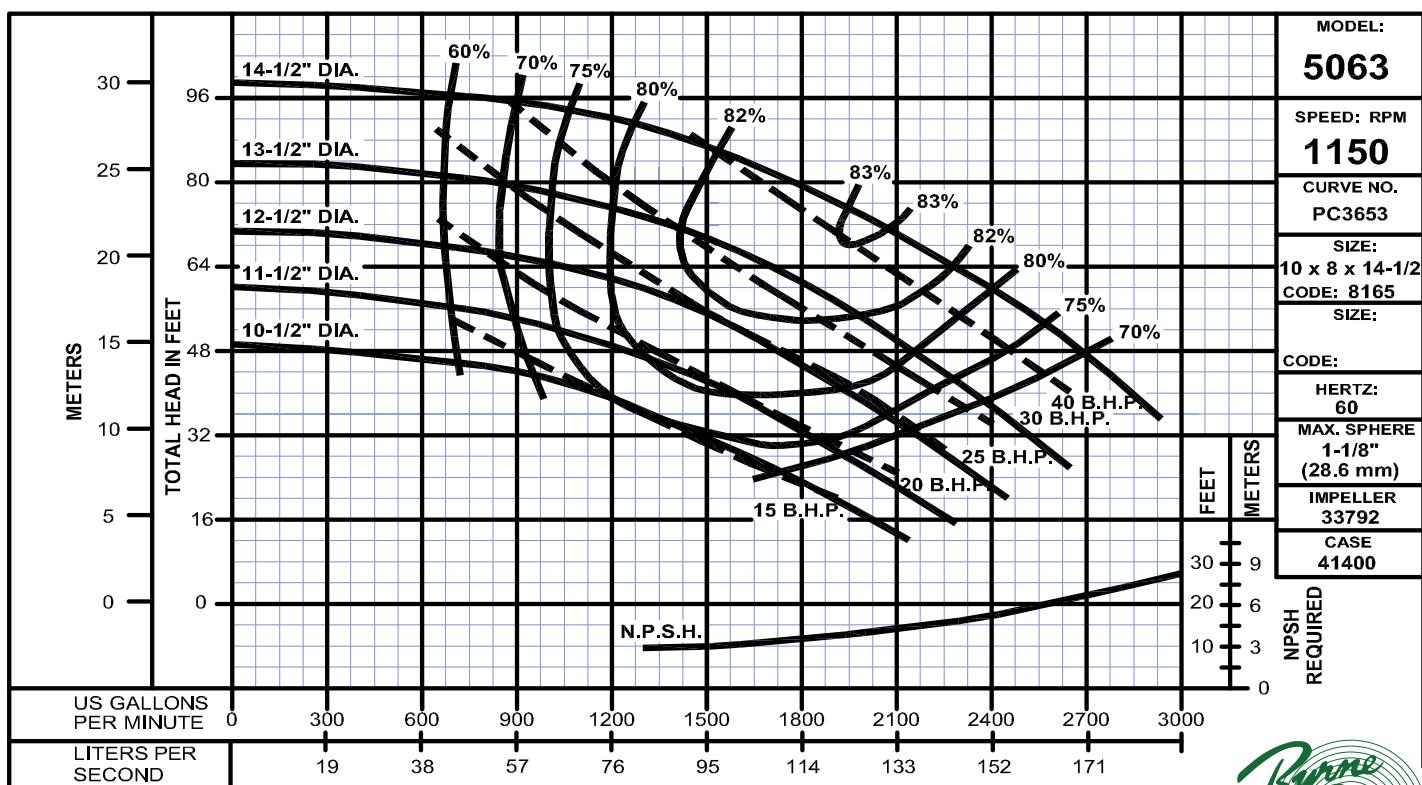
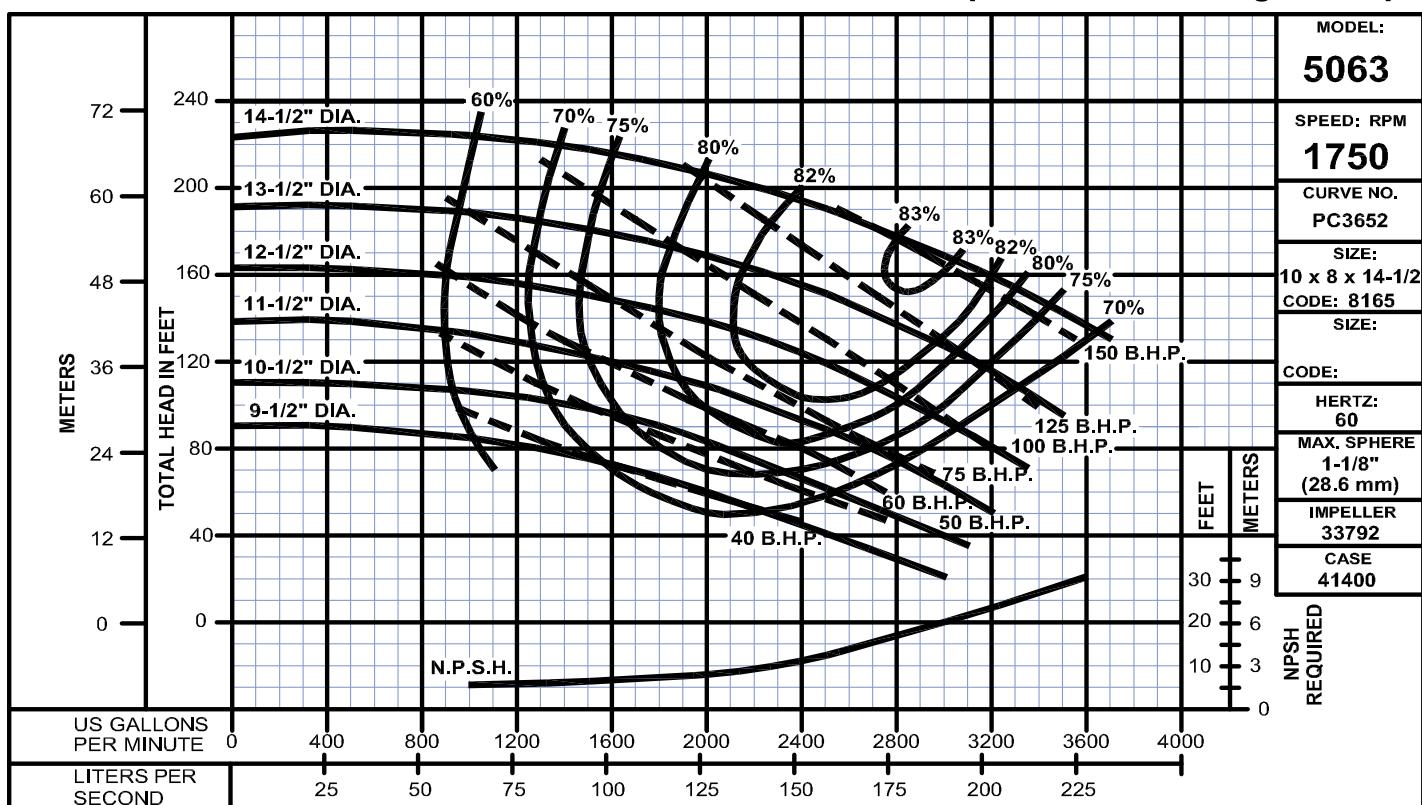
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 10 x 8 x 14-1/2, 1750 & 1150 RPM

Horizontal Split Case Centrifugal Pumps



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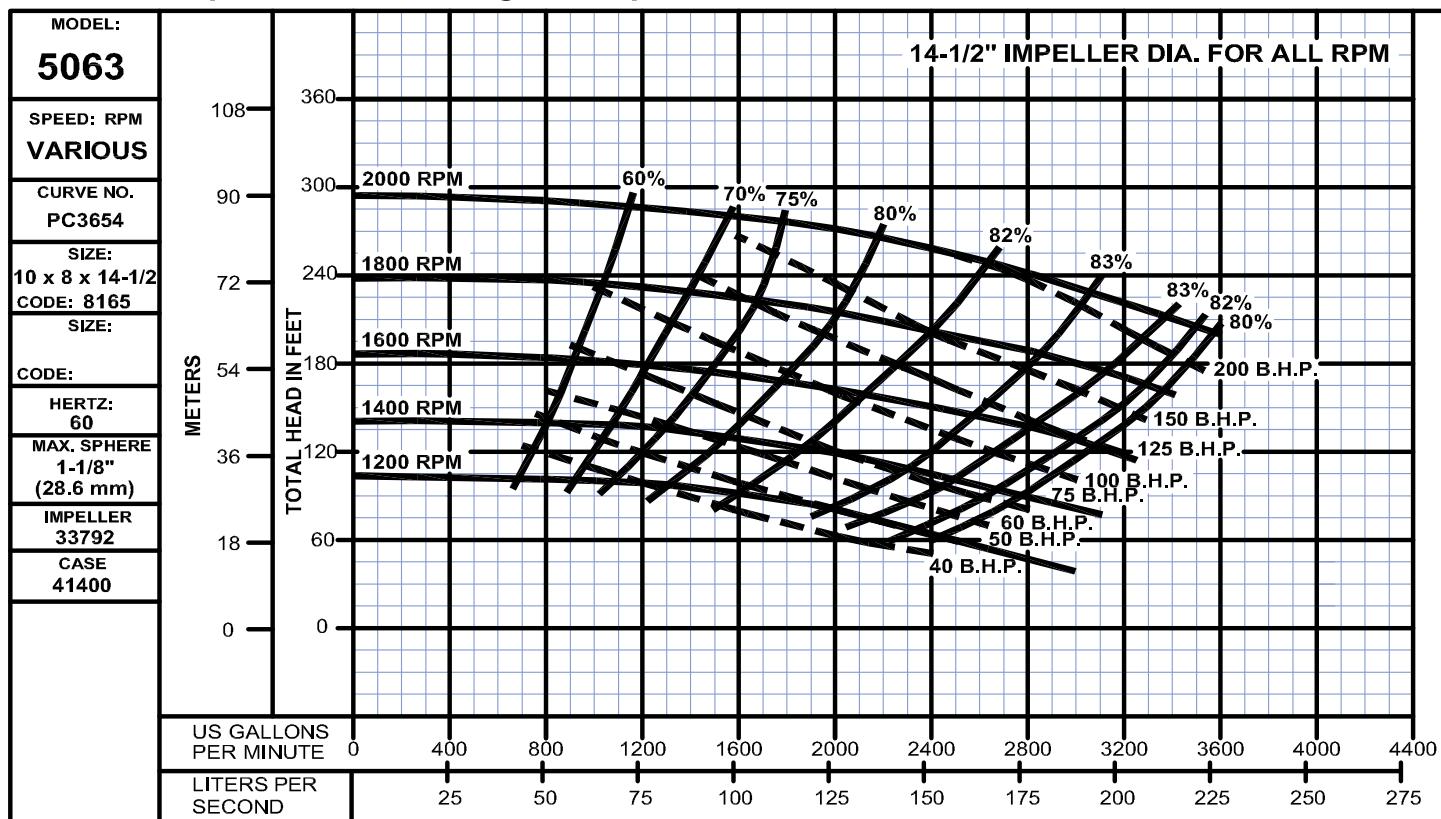
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PERFORMANCE CURVE — FIGURE 5063

SIZES: 10 x 8 x 14-1/2, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“Are we at last brought to such humiliating and debasing degradation, that we cannot be trusted with arms for our defense?”

—Patrick Henry



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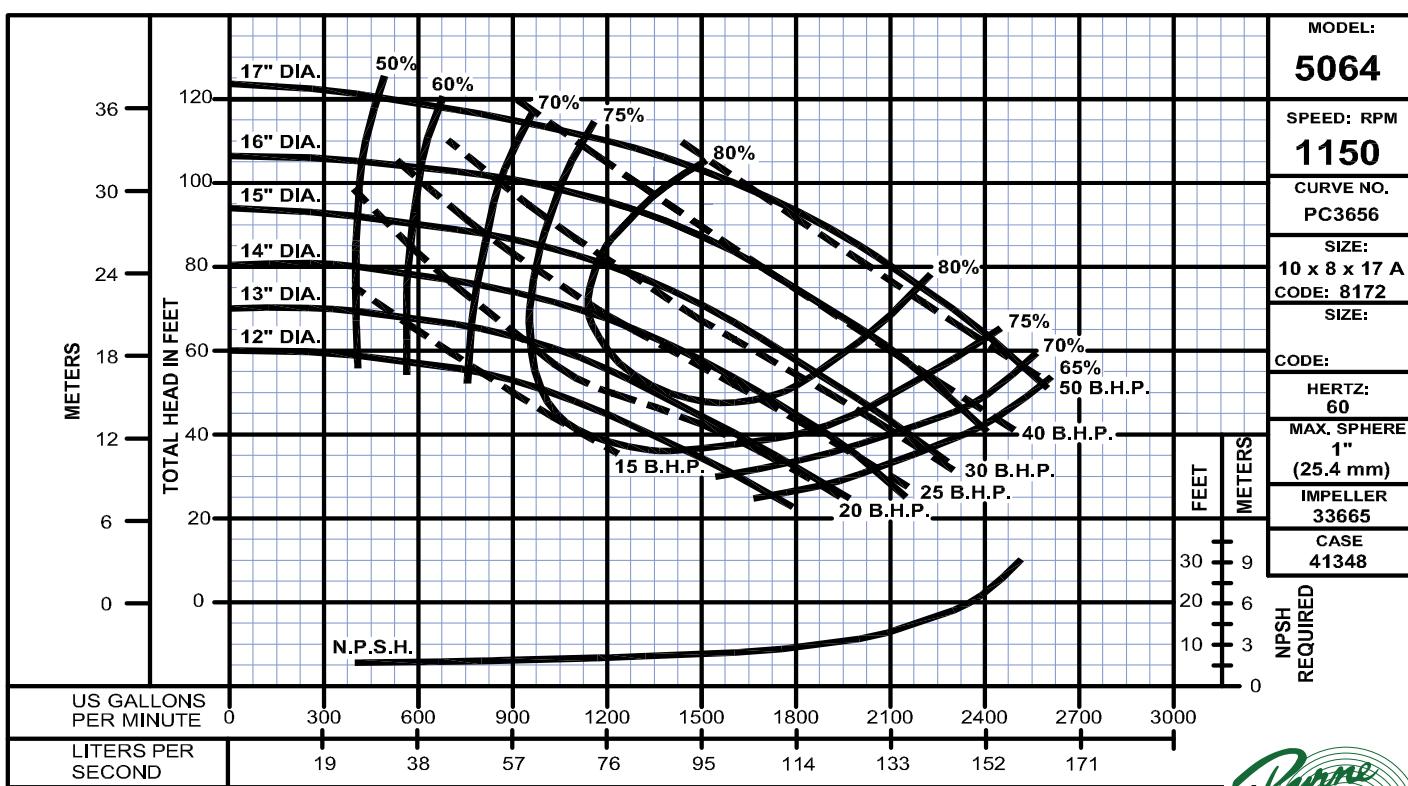
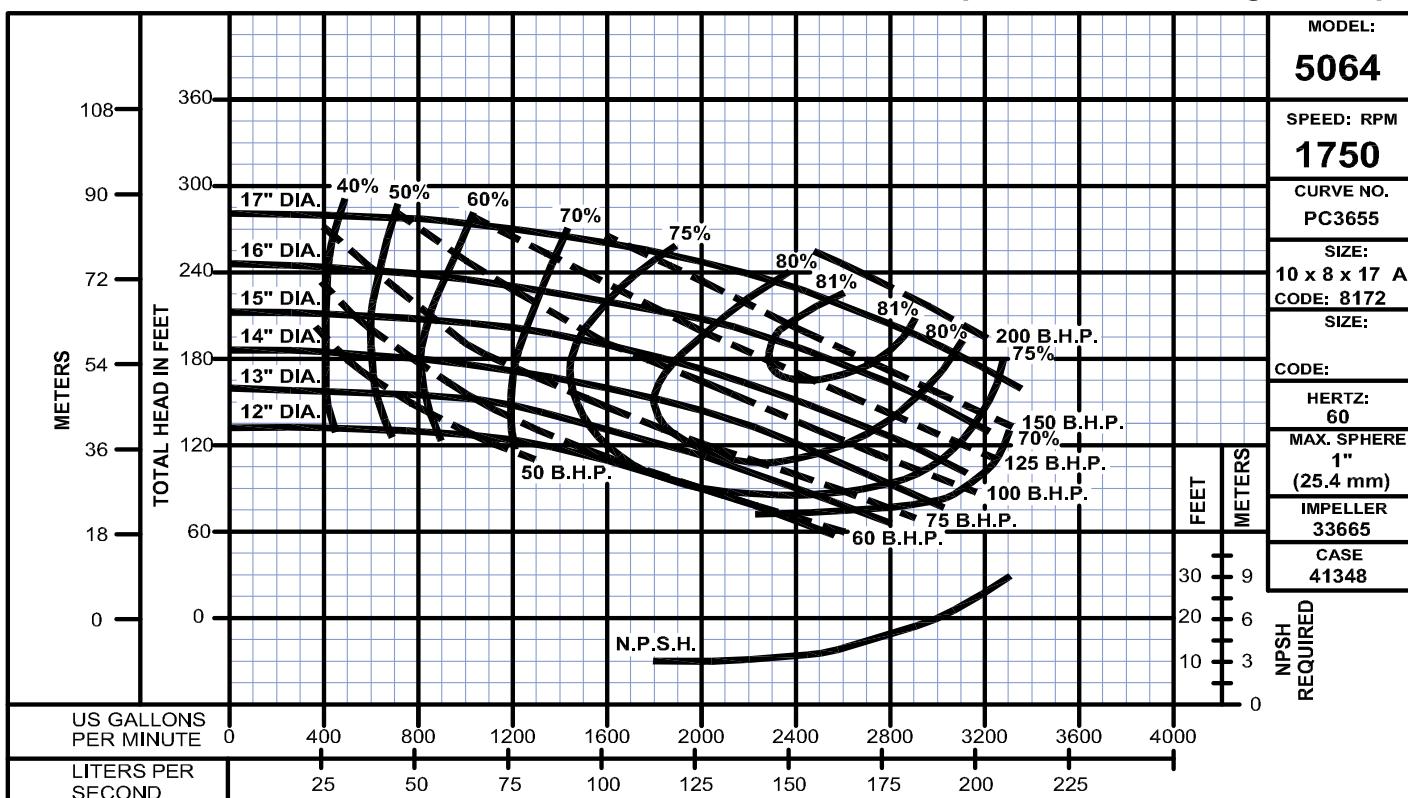
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 17, 1750 & 1150 RPM

BR

Horizontal Split Case Centrifugal Pumps



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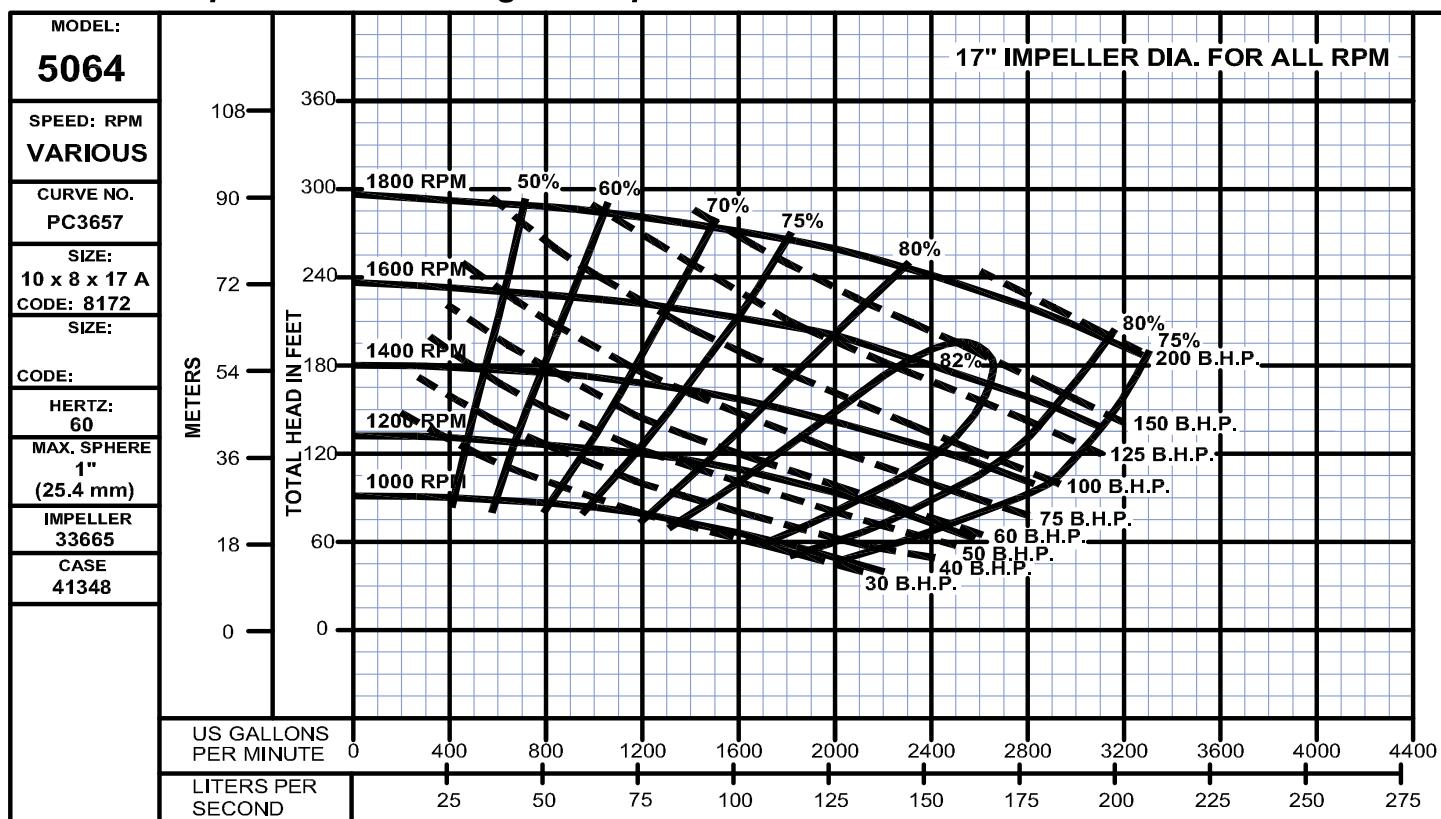
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 17, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“It is natural to indulge in the illusions of hope. We are apt to shut our eyes to that siren until she allures us to our death.”

—Patrick Henry

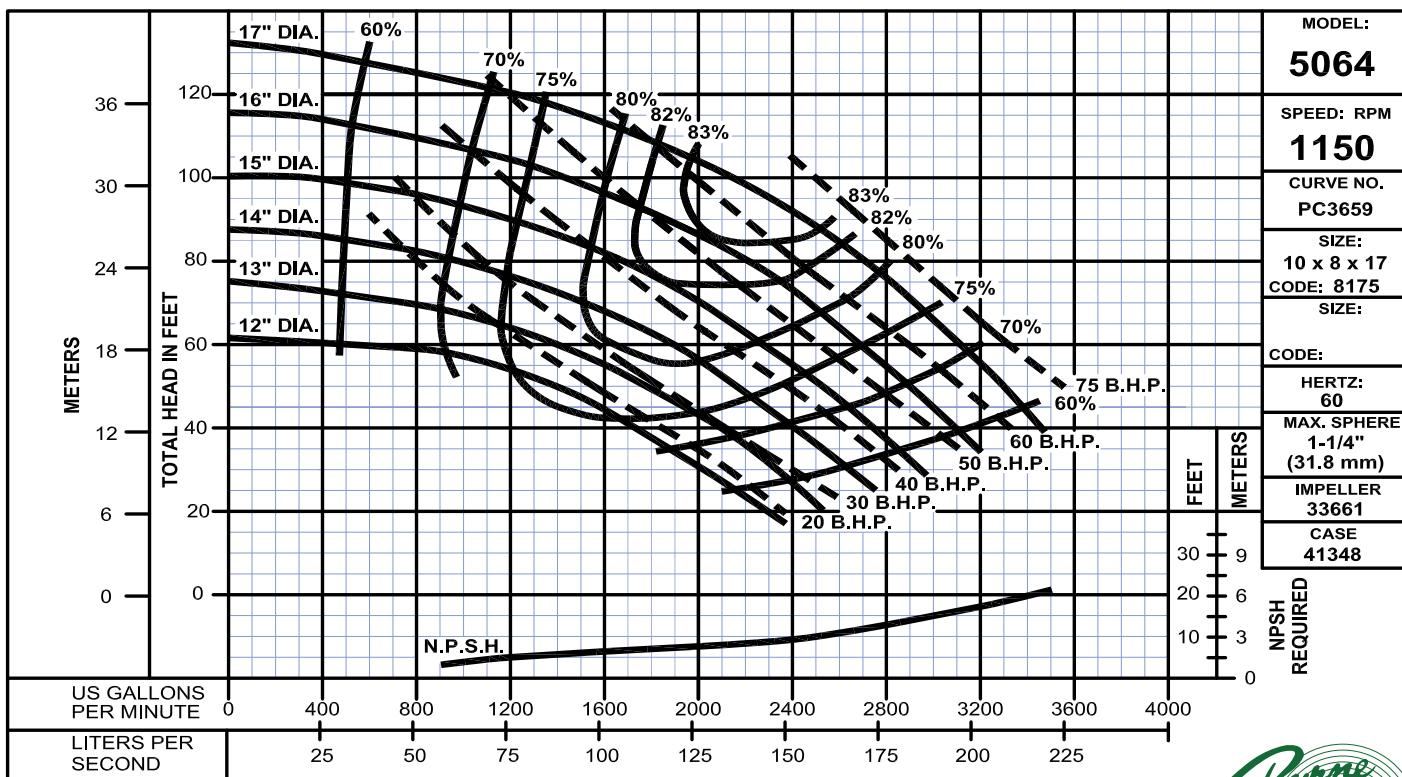
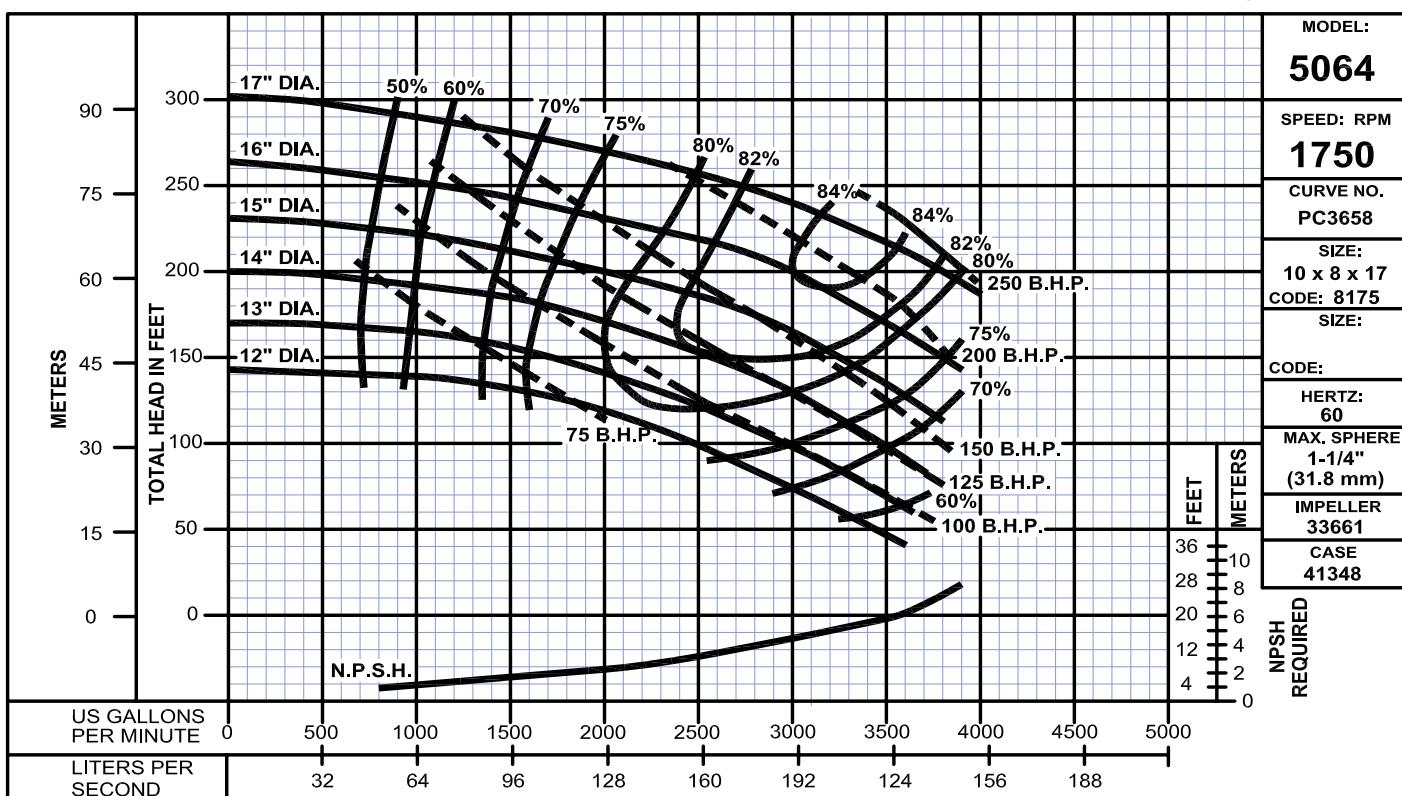


PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 17, 1750 & 1150 RPM

BR

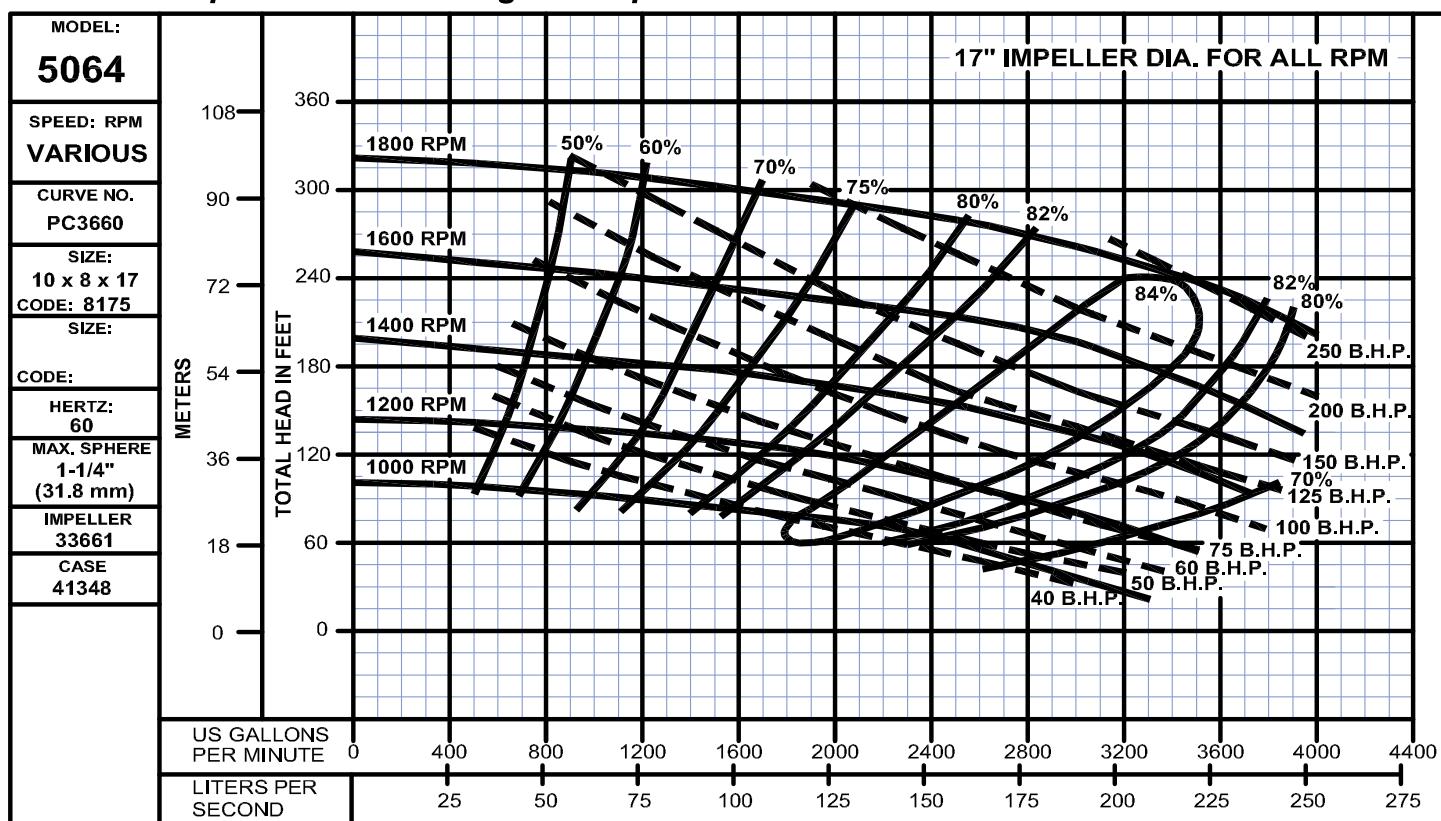
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 17, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“The Bible is worth all the other books which have ever been printed.”

—Patrick Henry



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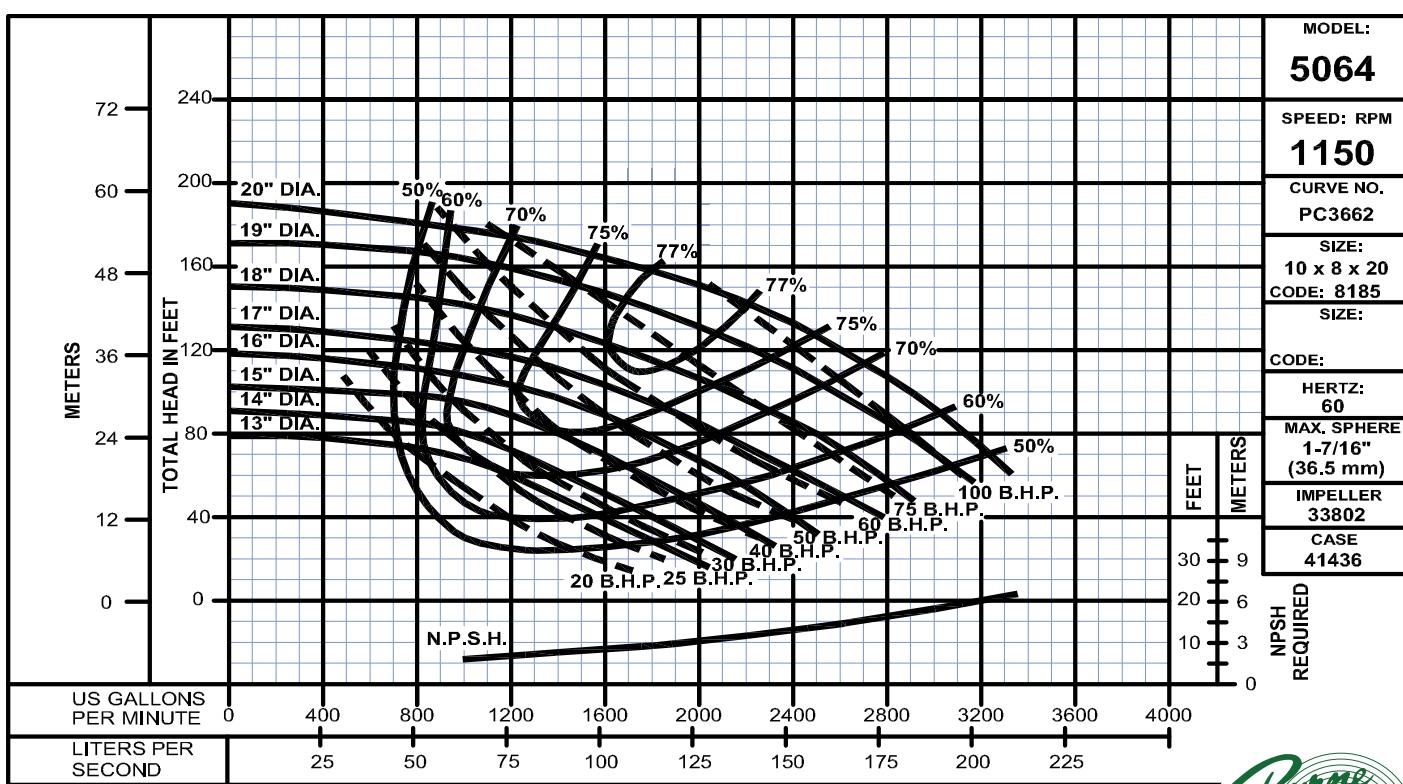
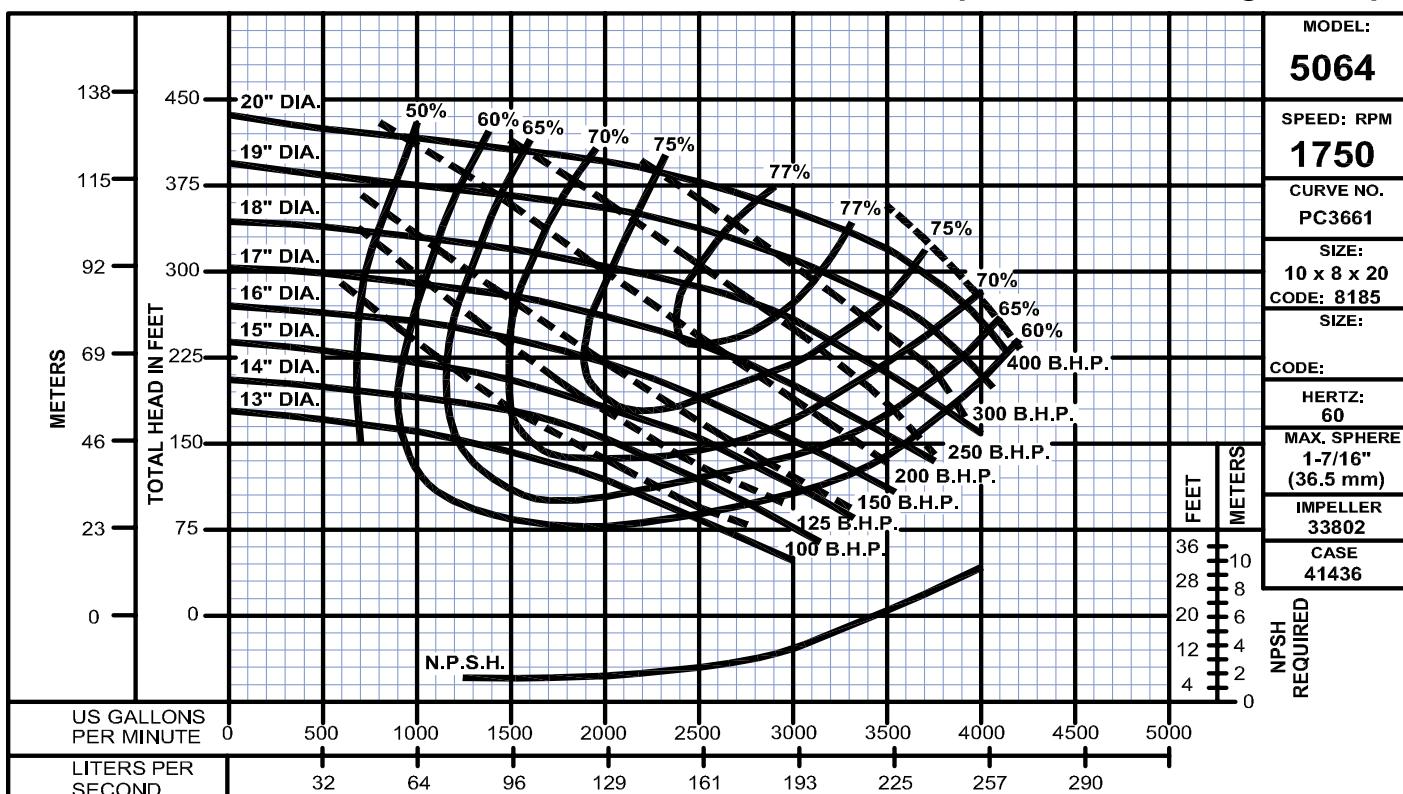
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 20, 1750 & 1150 RPM

BR

Horizontal Split Case Centrifugal Pumps



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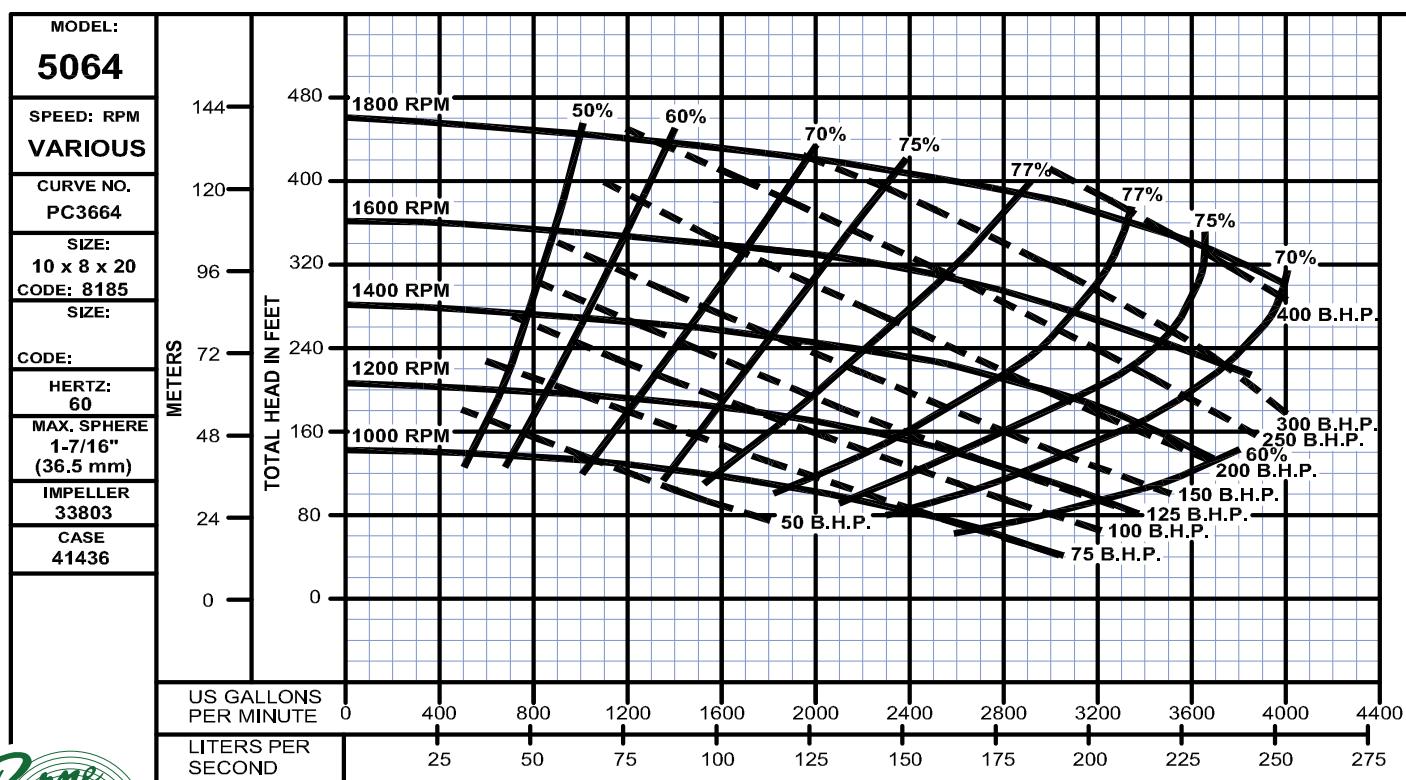
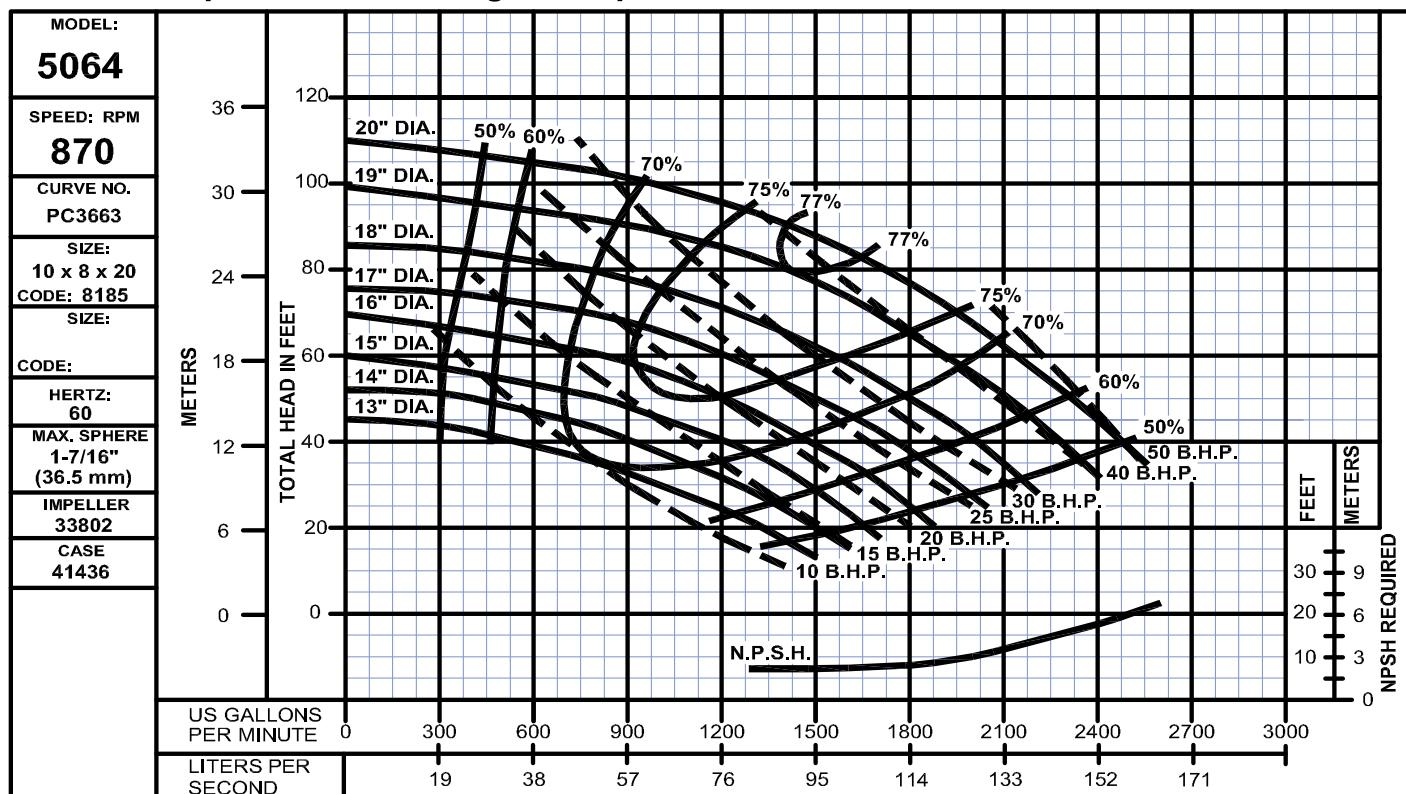
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 10 x 8 x 20, 870 & VARIOUS RPM

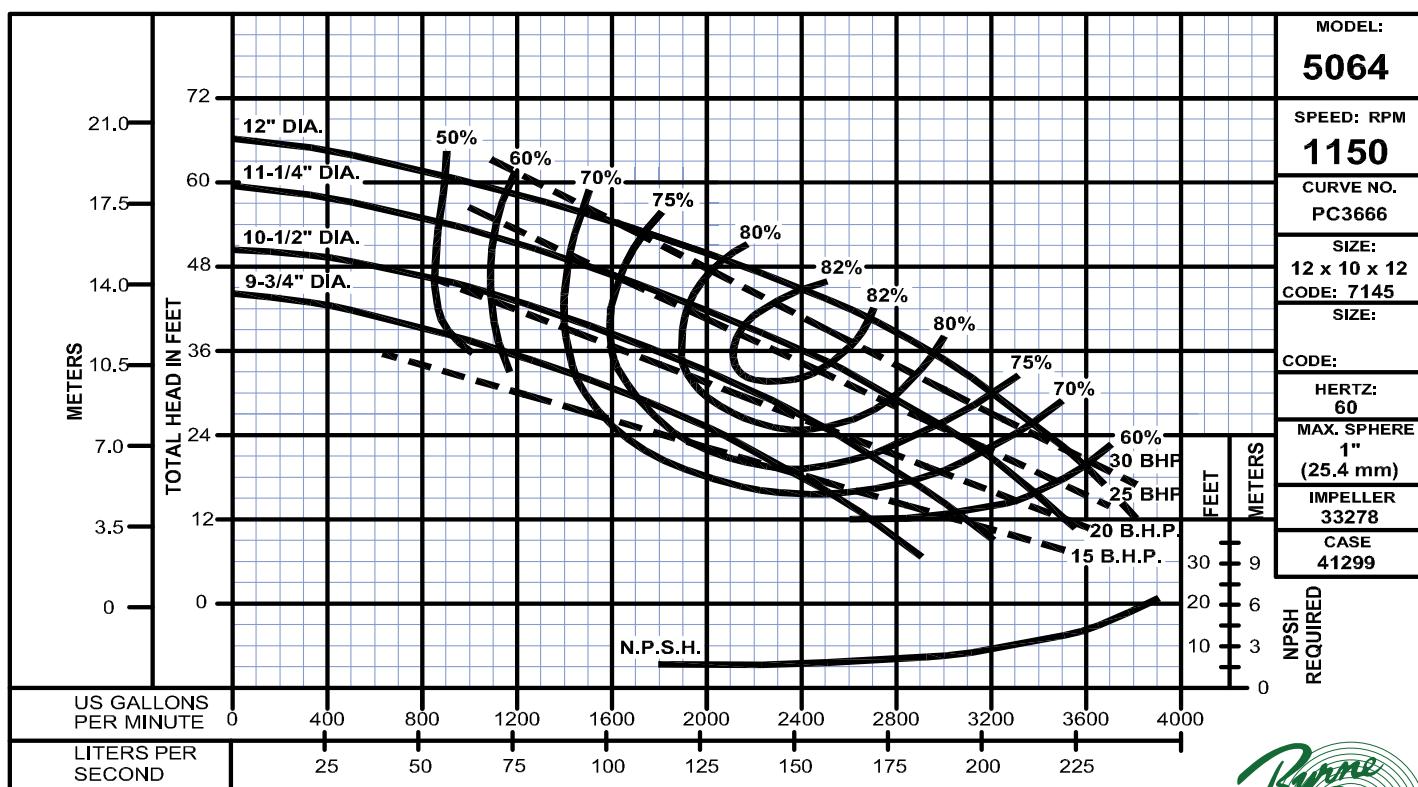
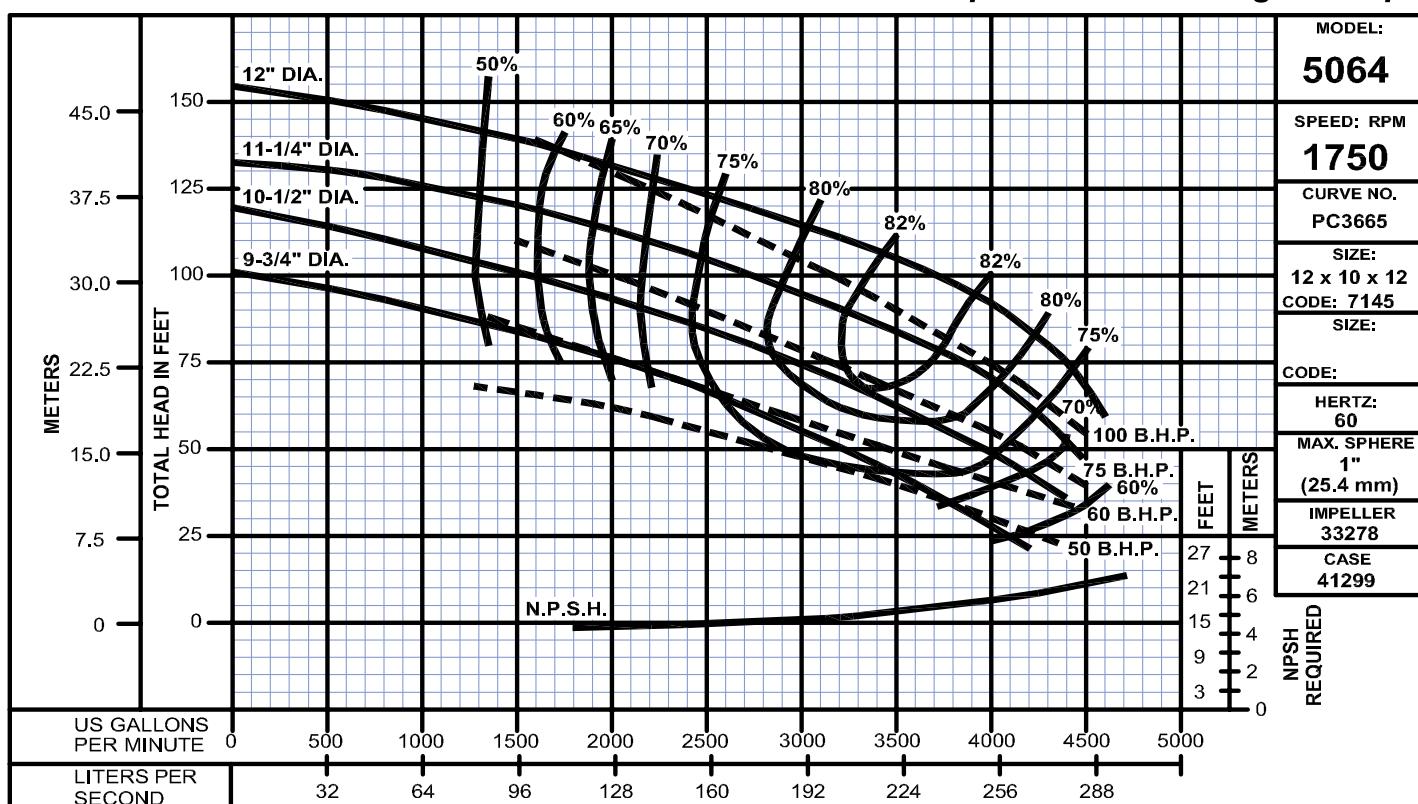
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 12, 1750 & 1150 RPM

Horizontal Split Case Centrifugal Pumps



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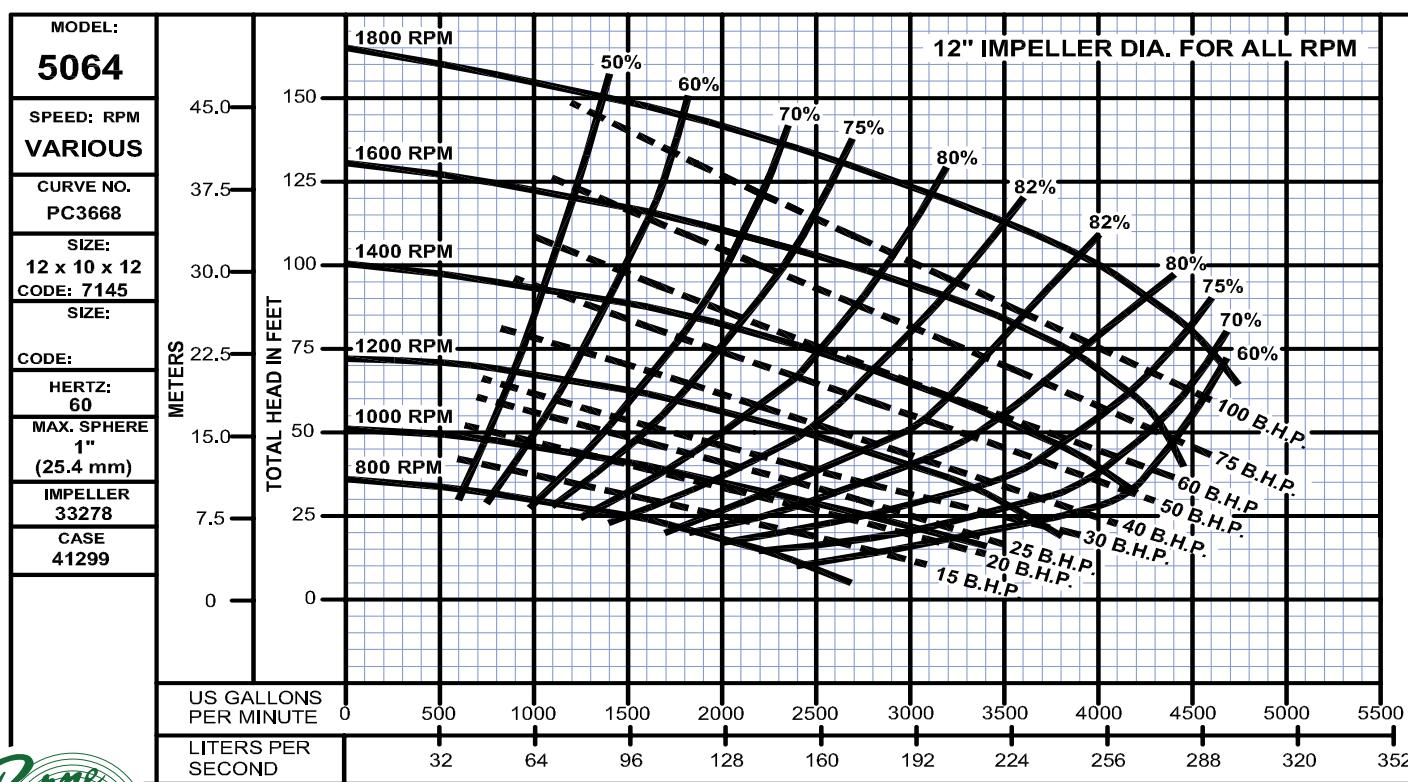
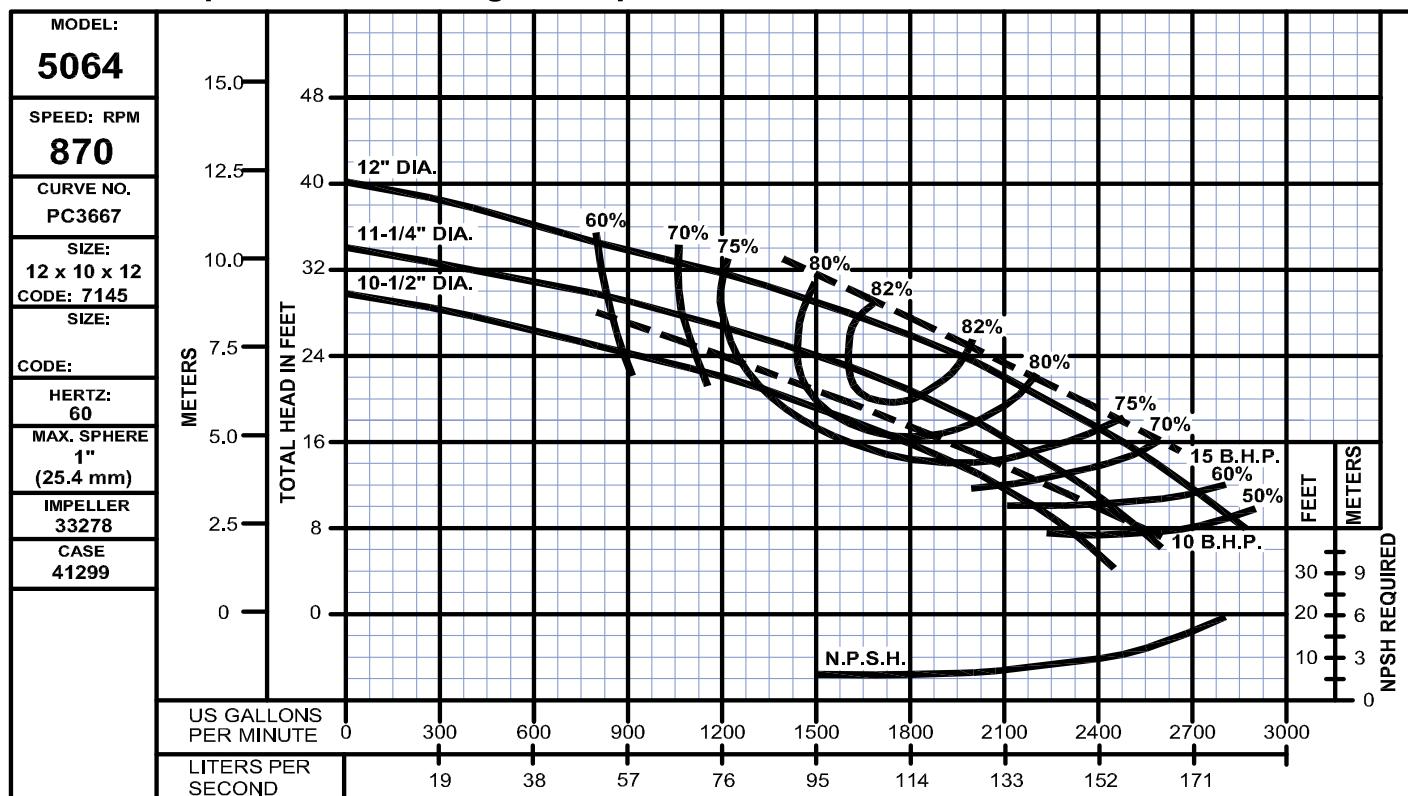
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 12, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

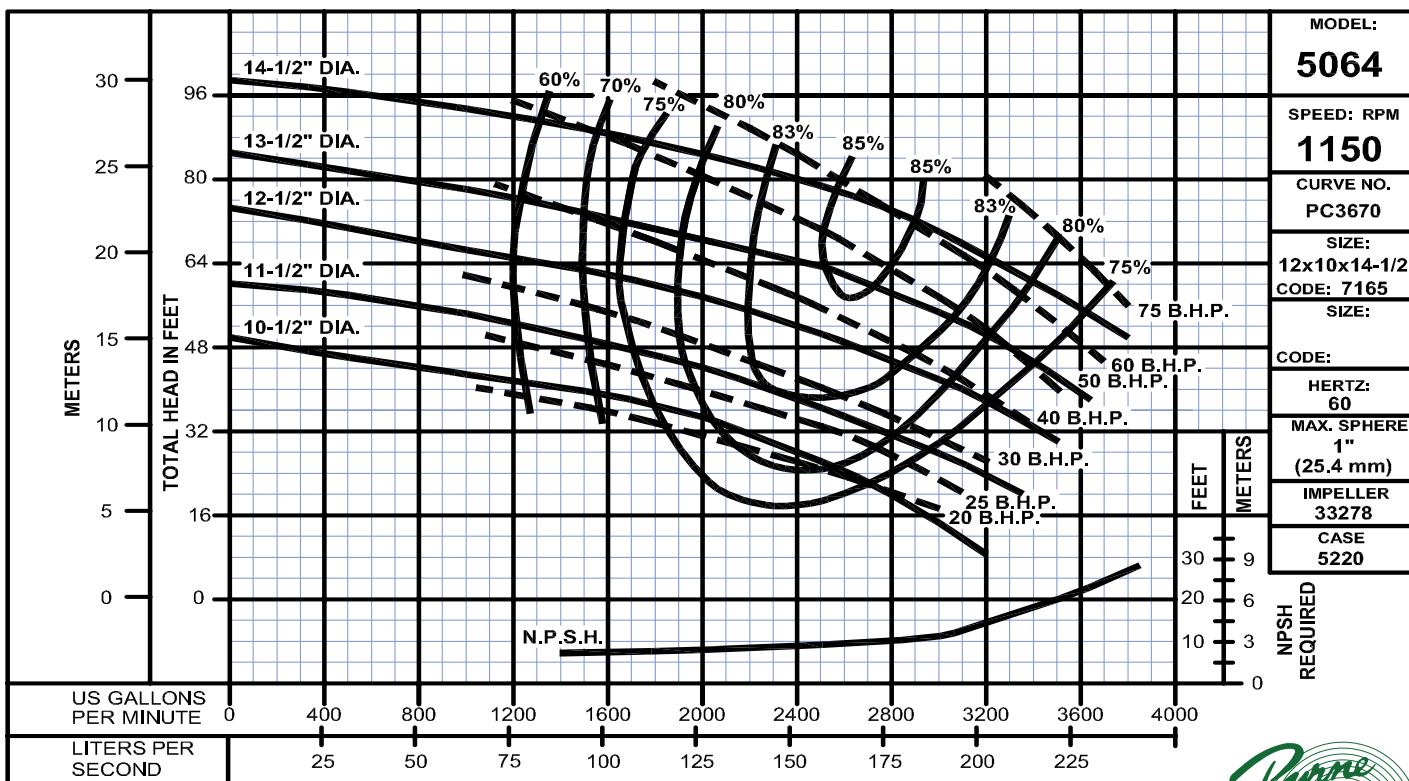
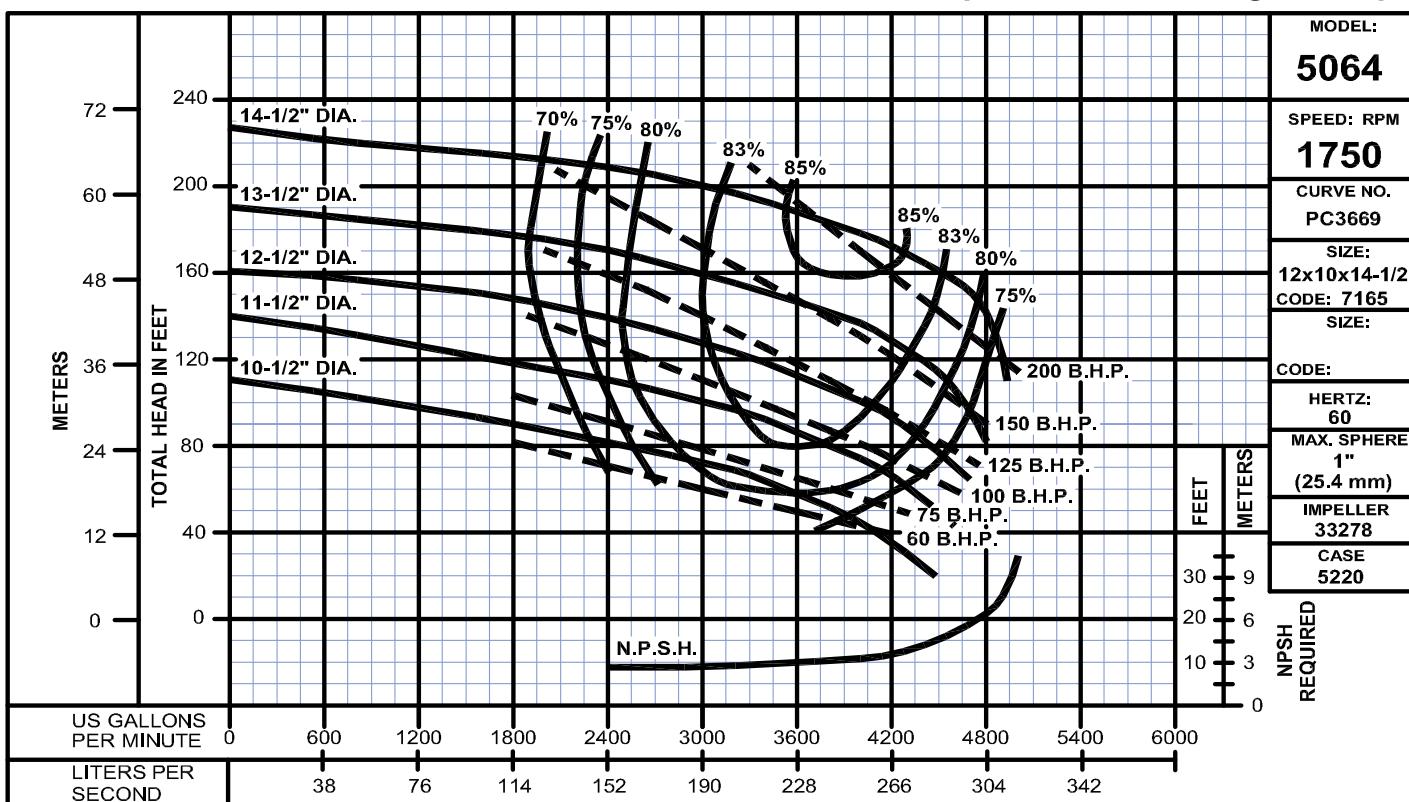


PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 14-1/2, 1750 & 1150 RPM

BR

Horizontal Split Case Centrifugal Pumps



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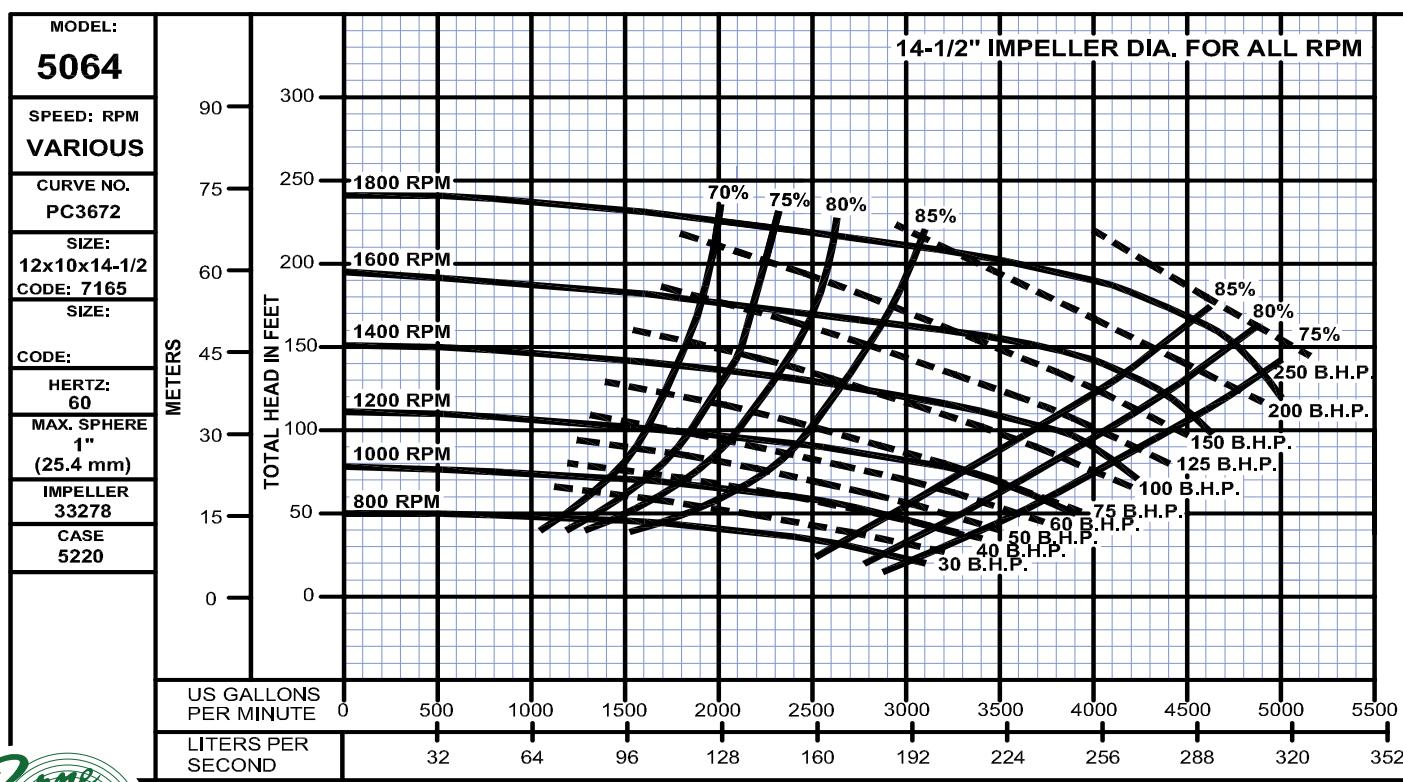
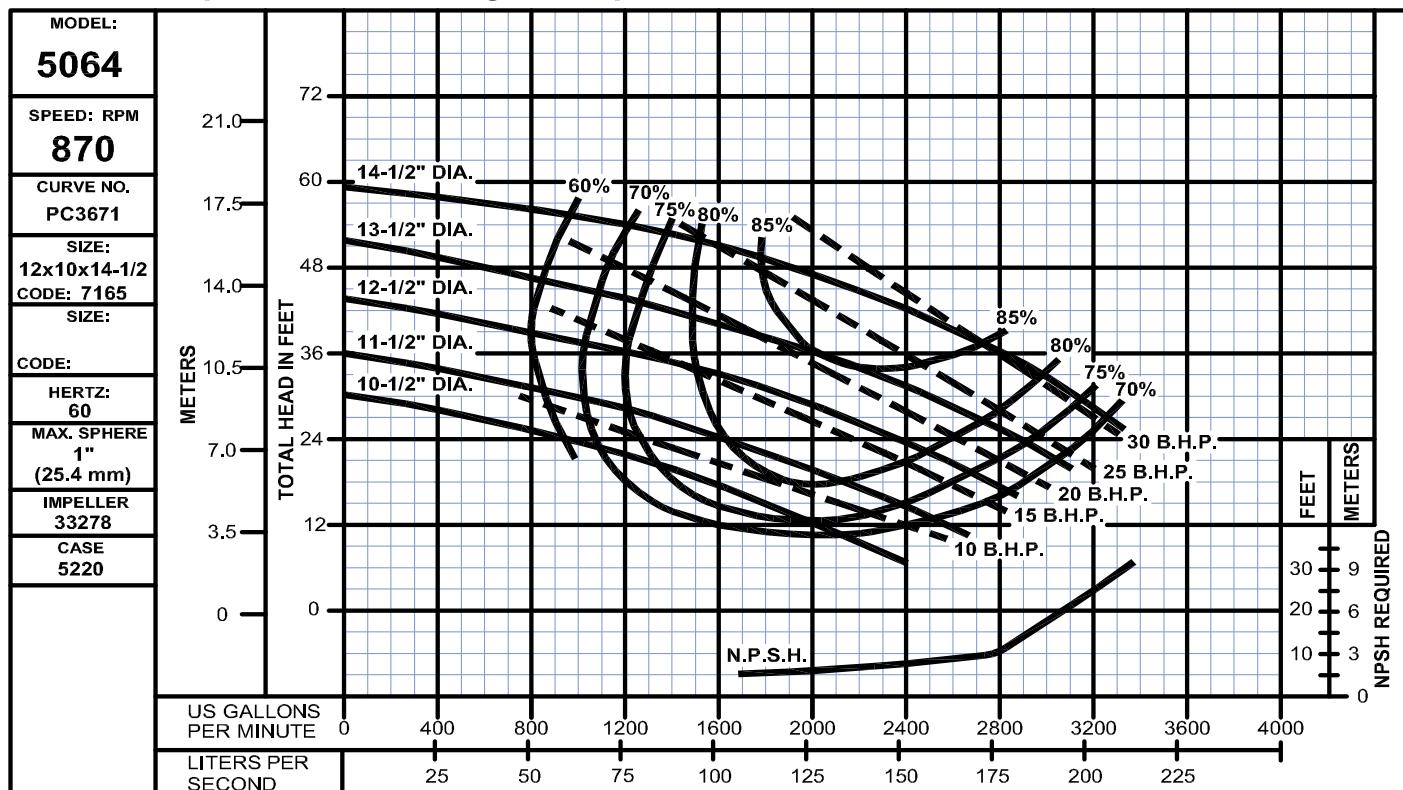
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PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 14-1/2, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

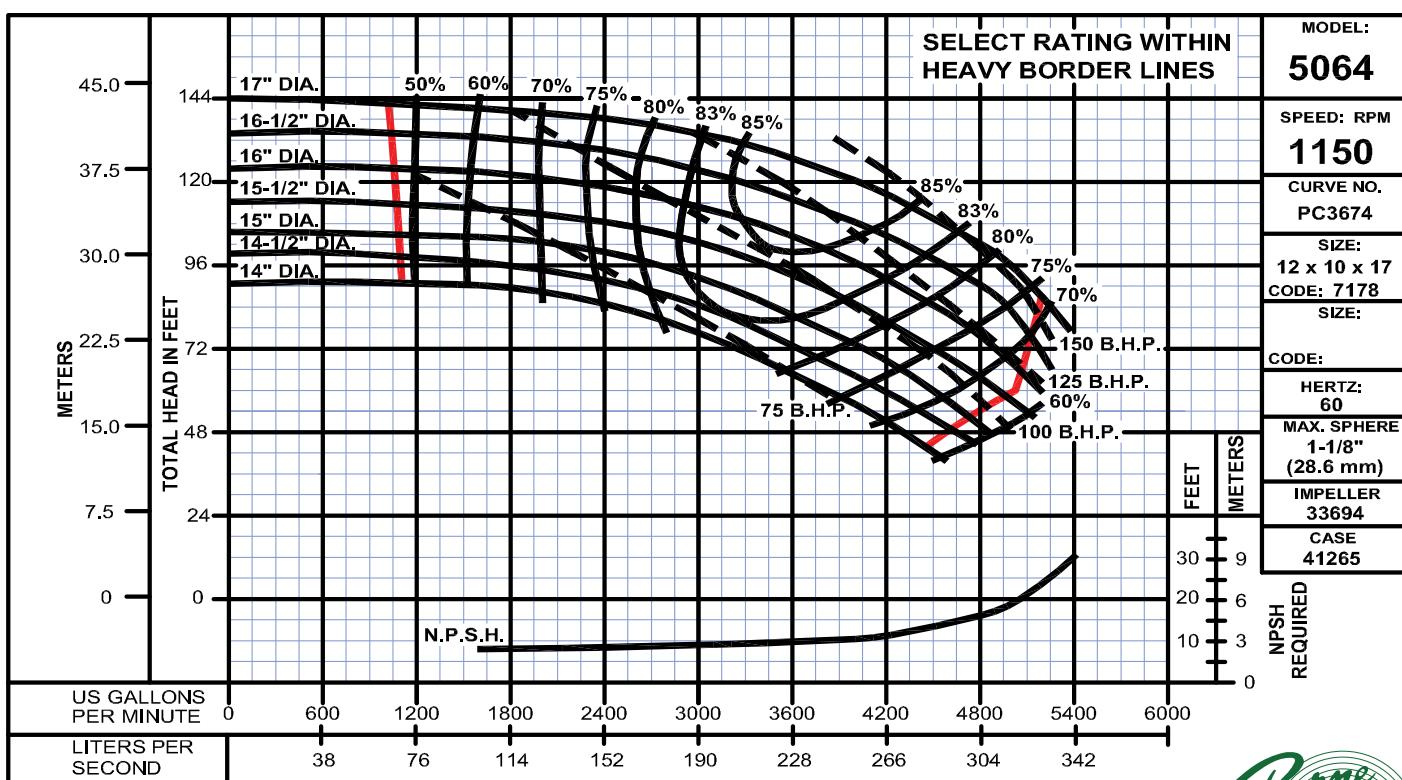
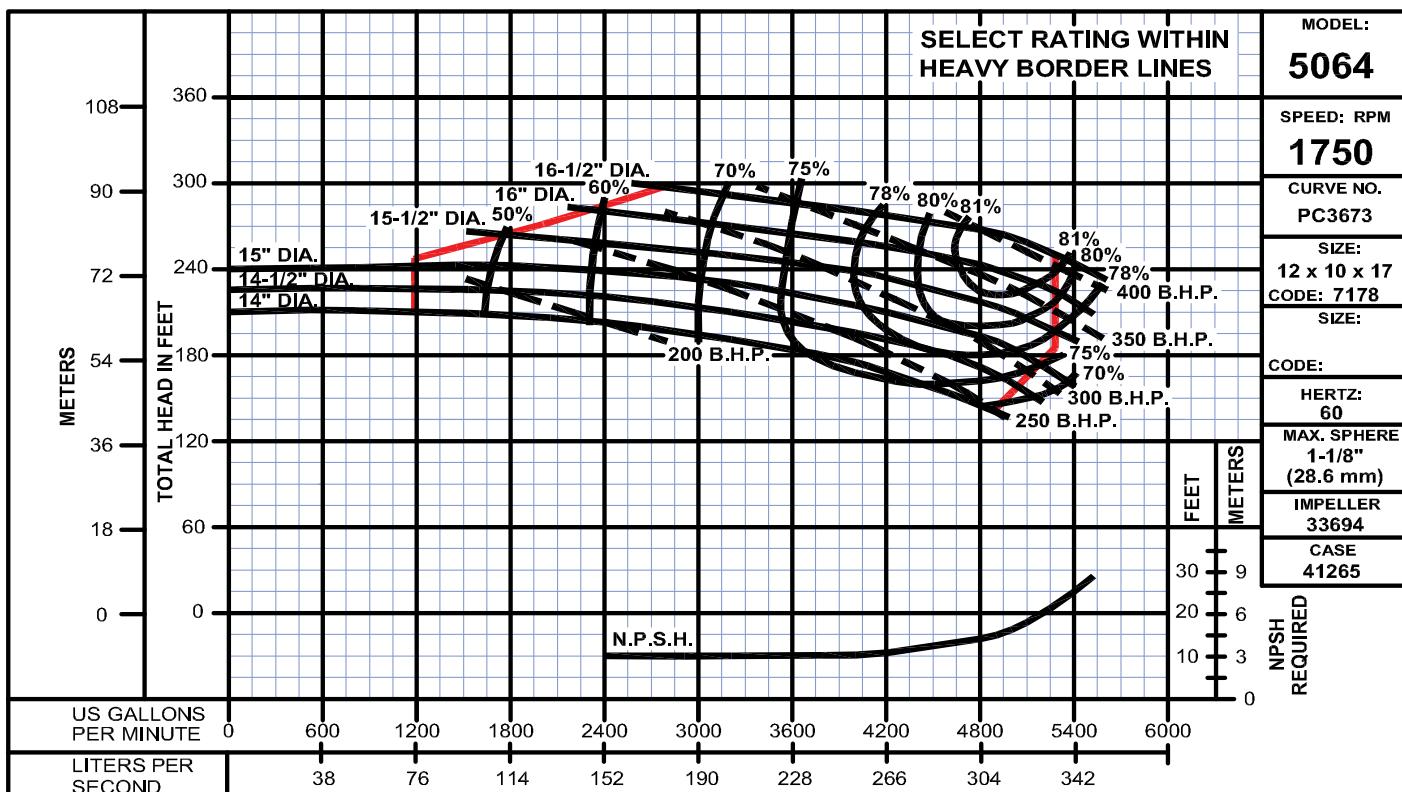


PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 17, 1750 & 1150 RPM

BR

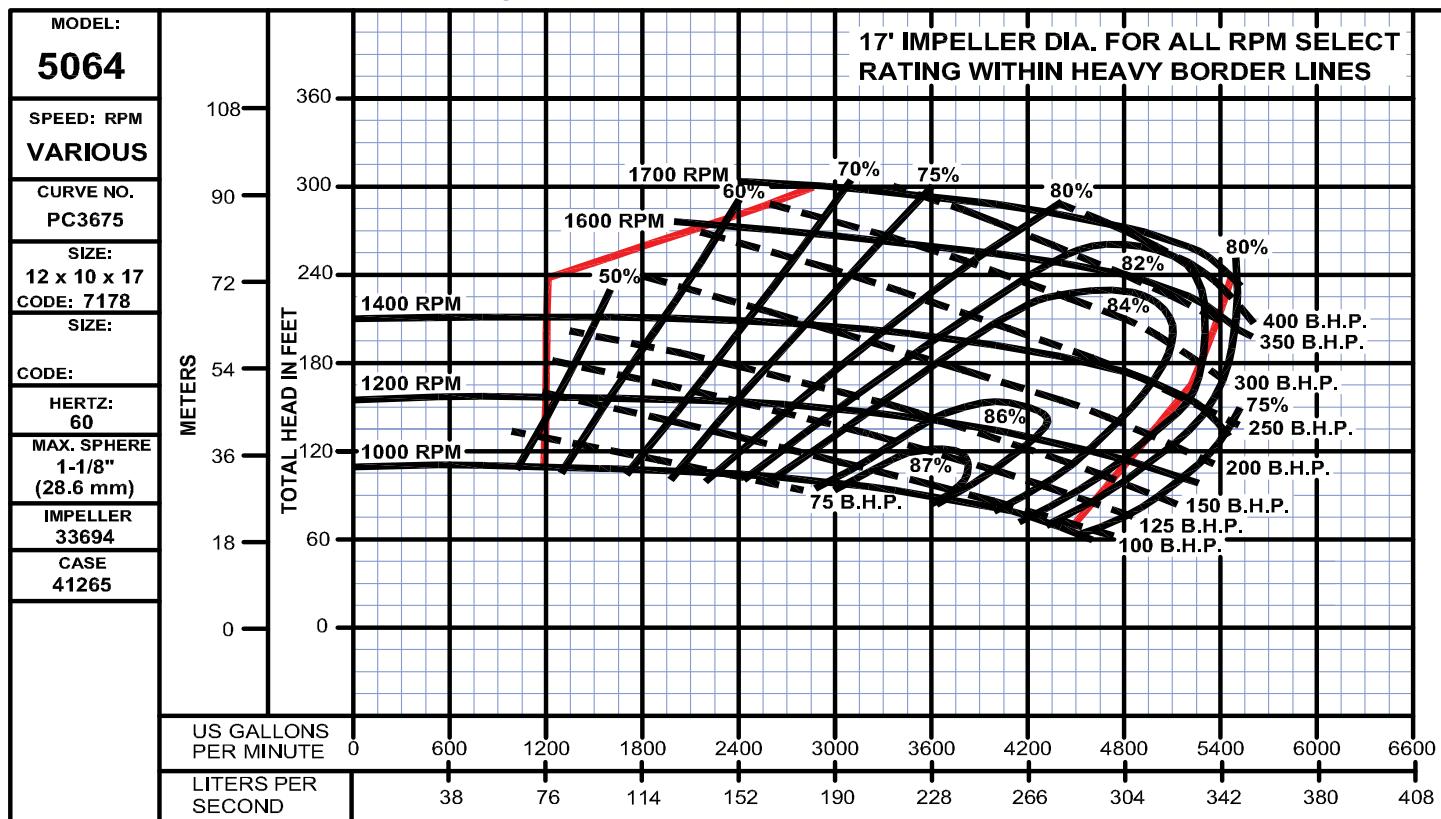
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064

SIZES: 12 x 10 x 17, VARIOUS RPM

Horizontal Split Case Centrifugal Pumps



“I have now disposed of all my property to my family. There is one thing more I wish I could give them, and that is the Christian religion.”

—Patrick Henry

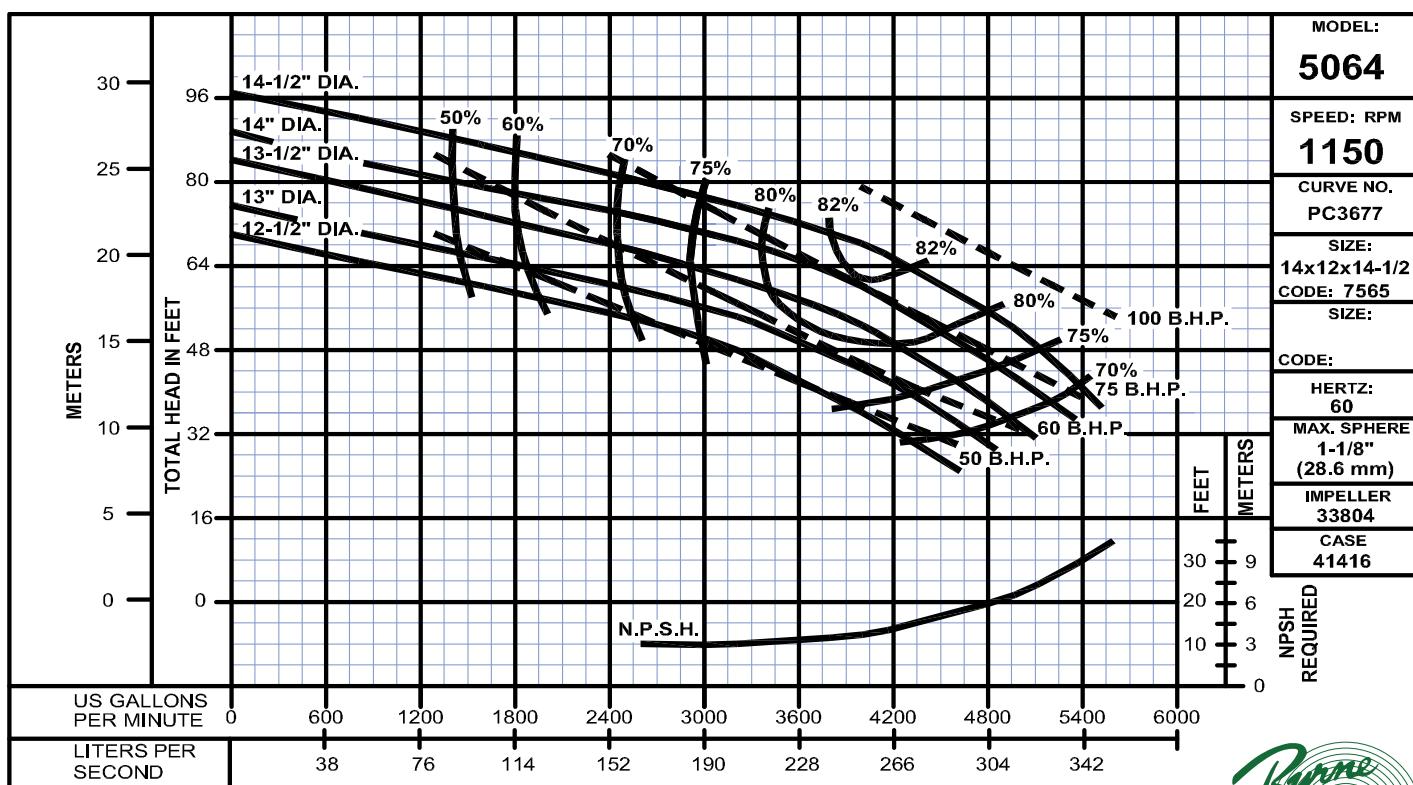
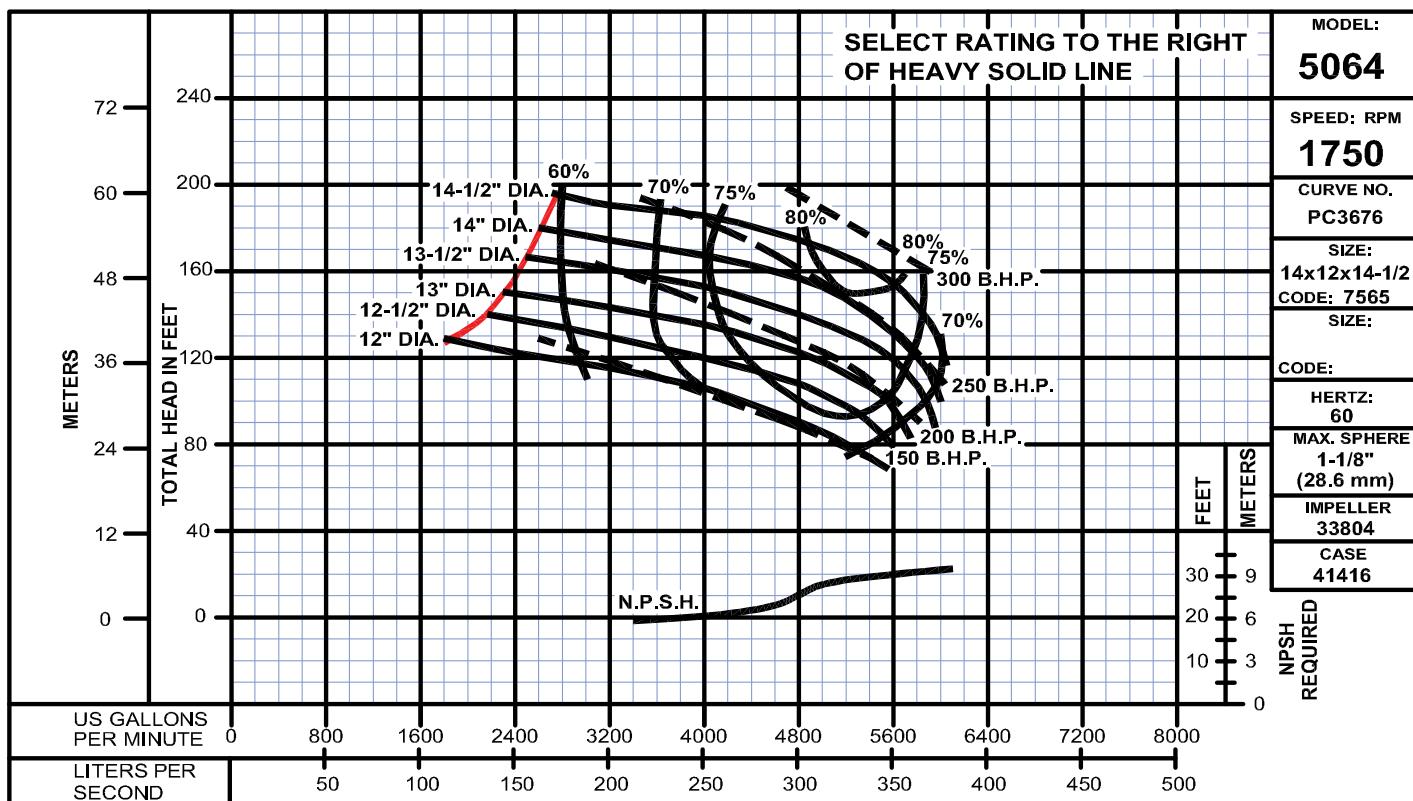


PERFORMANCE CURVE — FIGURE 5064

SIZES: 14 x 12 x 14-1/2, 1750 & 1150 RPM

BR

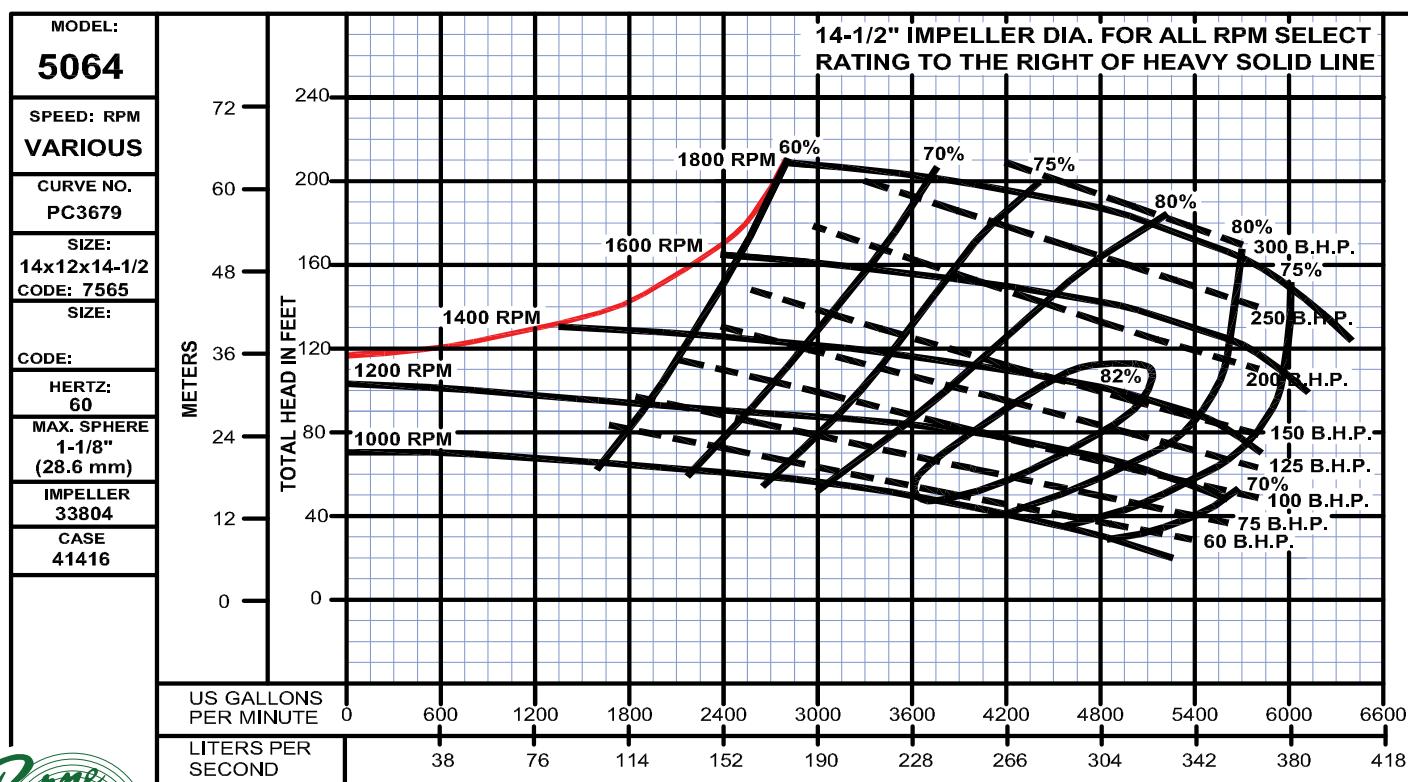
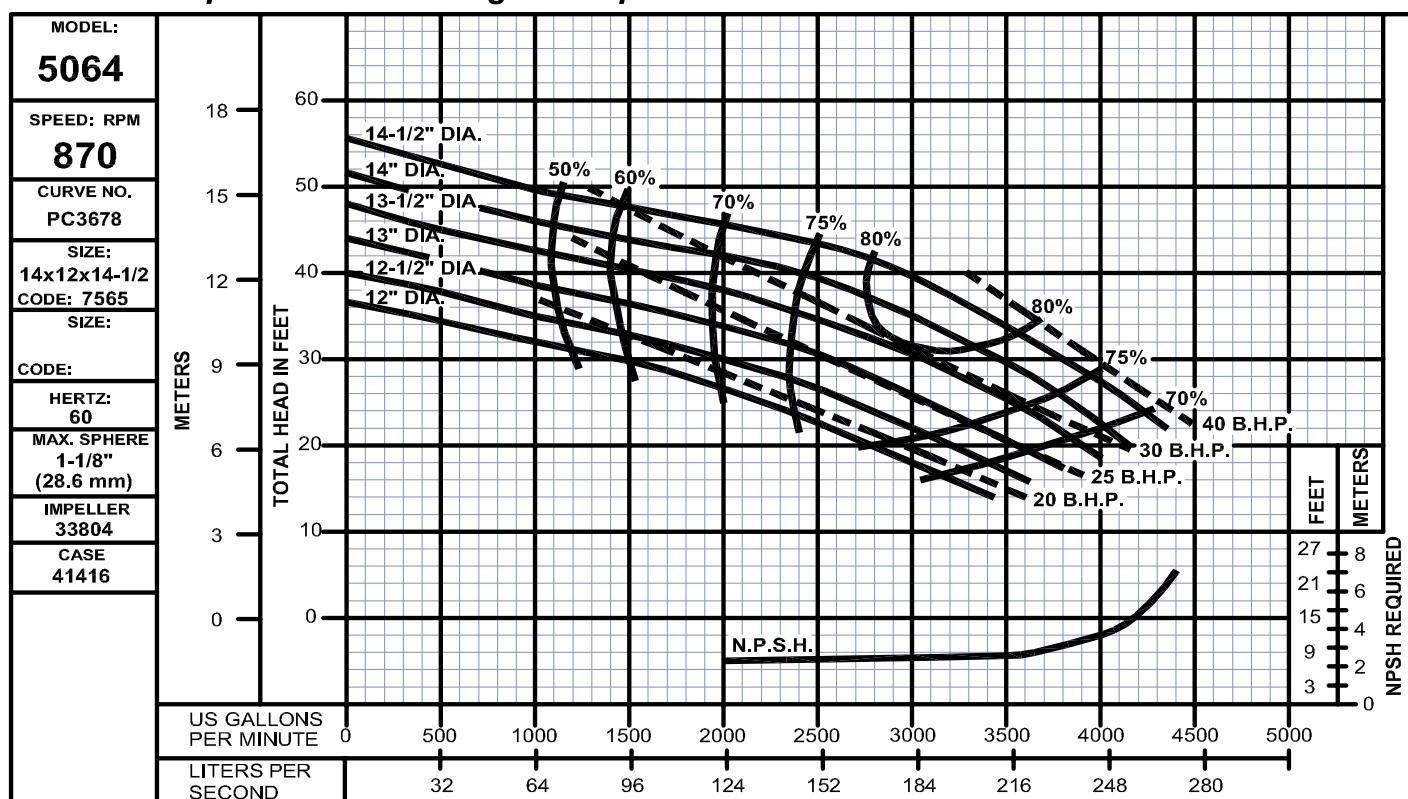
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064

SIZES: 14 x 12 x 14-1/2, 870 & VARIOUS RPM

Horizontal Split Case Centrifugal Pumps

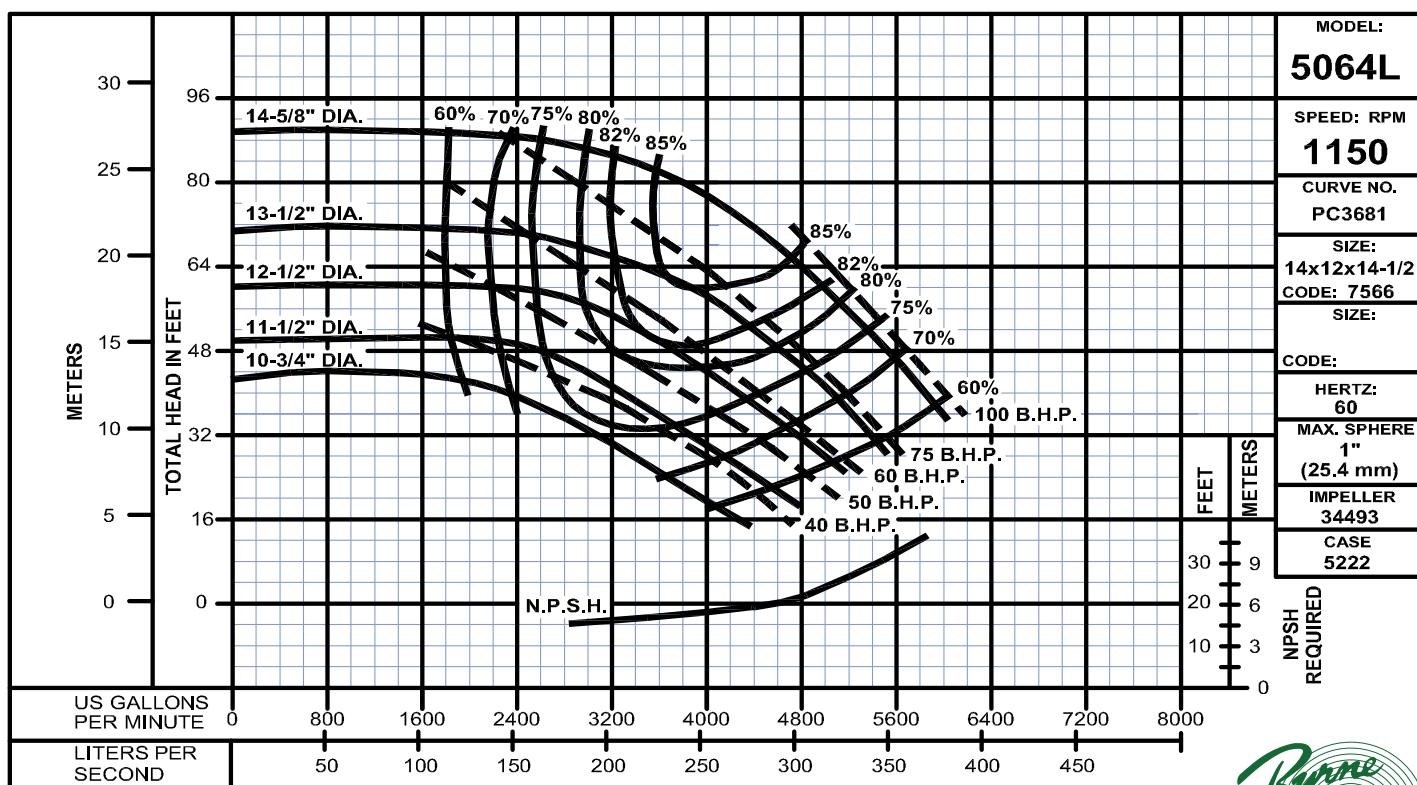
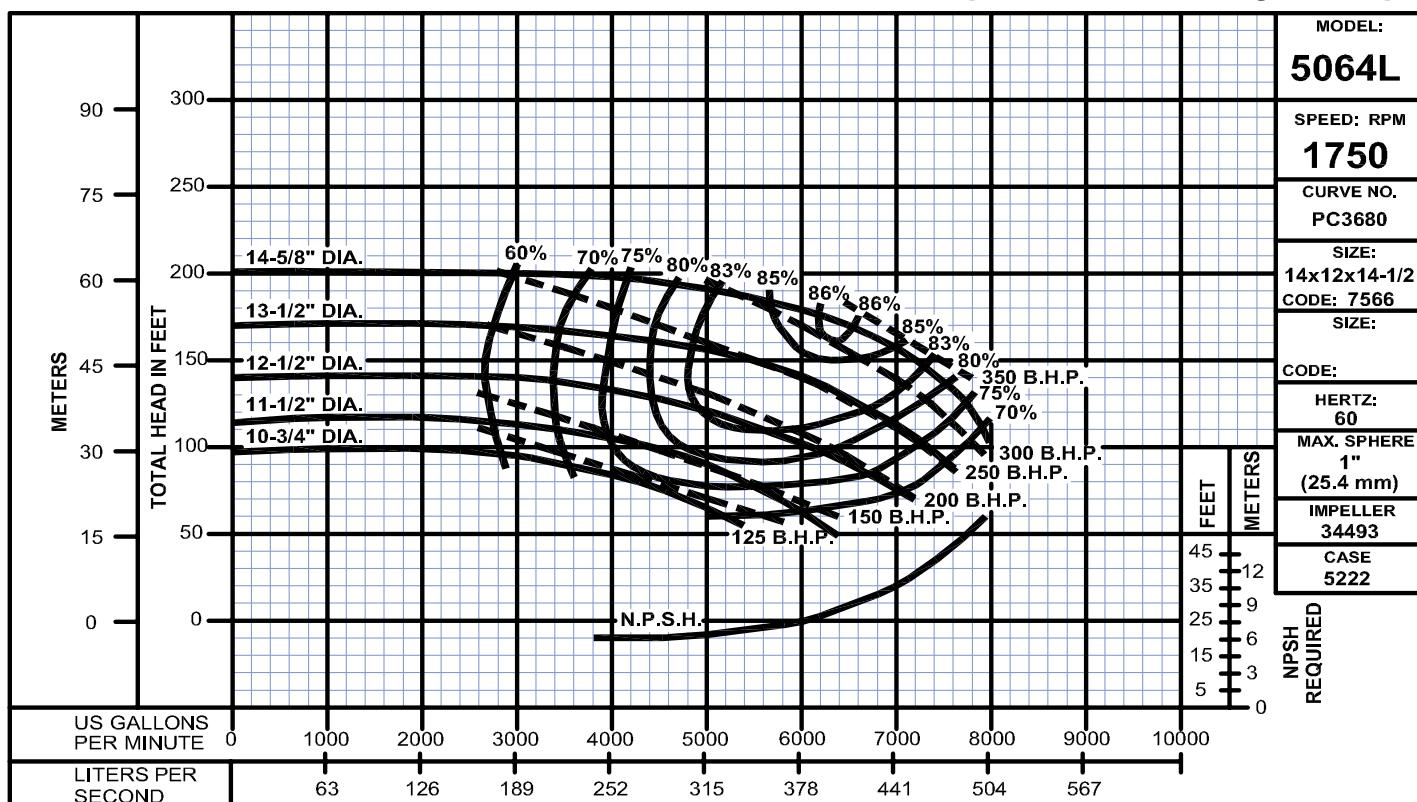


PERFORMANCE CURVE — FIGURE 5064L

SIZES: 14 x 12 x 14-1/2, 1750 & 1150 RPM

BR

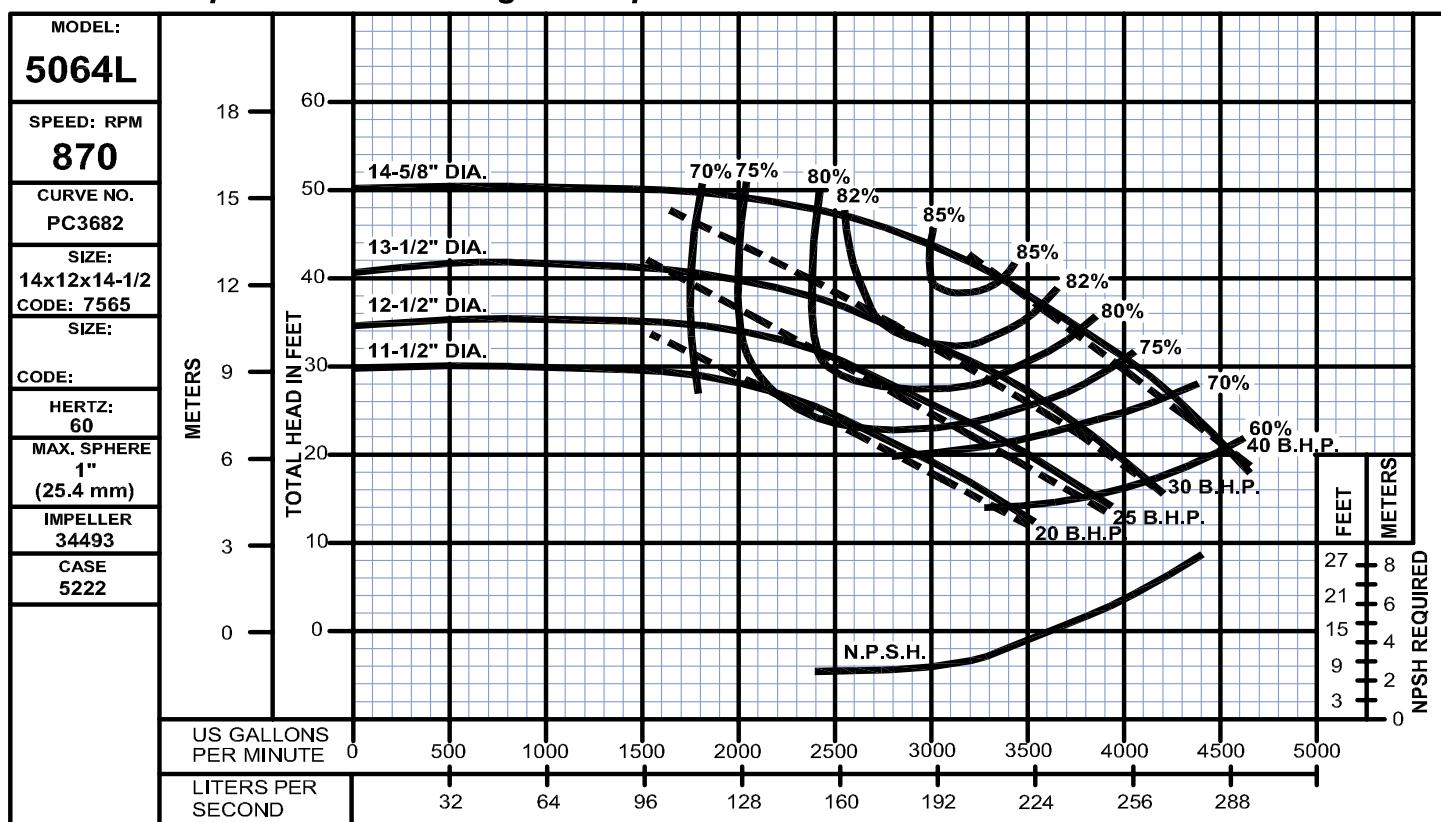
Horizontal Split Case Centrifugal Pumps



PERFORMANCE CURVE — FIGURE 5064L

SIZES: 14 x 12 x 14-1/2, 870 RPM

Horizontal Split Case Centrifugal Pumps



“When the American spirit was in its youth, the language of America was different: Liberty, sir, was the primary object.”

—Patrick Henry



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