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Chemical & Process ANSI 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**
1 thru 4		5 thru 8	9	10	11	12

Digits 1 thru 4 describes the pump figure number.

1 thru 4	Description
3062	Smallest of the Section 36 ANSI Pumps
3065	Medium size Section 36 ANSI Pumps
3066	Large size and high speed Section 36 ANSI Pumps

Digits 5 thru 8 describes the Pump Code (as shown on pump curve & price page).

5 thru 8	Description	5 thru 8	Description
0925	AA 1-1/2 x 1 x 6	3155	A70 4 x 3 x 9-1/2
1825	AB 3 x 1-1/2 x 6	1865	A20 3 x 1-1/2 x 12
0945	AA 1-1/2 x 1 x 8	2265	A30 3 x 2 x 12
1845	AB 3 x 1-1/2 x 8	3165	A40 4 x 3 x 12
2235	A10 3 x 2 x 7-1/4	4265	A80 6 x 4 x 12
1055	A05 2 x 1 x 9-1/2	1866	A20 3 x 1-1/2 x 12B
1855	A50 3 x 1-1/2 x 9-1/2	2266	A30 3 x 2 x 12B
2255	A60 3 x 2 x 9-1/2	4274	A80-15 6 x 4 x 15

Digit 9 describes the cast materials of the pump.

Digit 9	Description	Digit 9	Description
1	Cast Iron	6	316 Stainless Steel
2	Bronze Fitted	7	Alloy 20 (also called C-20 for Carpenter 20 SS)
3	#8 All Bronze	8	GA-50
4	Ductile Iron	9	Special
5	Carbon Steel		

Digit 10 describes the shaft and sleeve material.

Digit 10	Description	Digit 10	Description
0		5	316 SS shaft with 316 SS sleeve
1		6	316 SS shaft with C-20 sleeve
2	4140 Steel shaft with 316 SS sleeve	7	C-20 shaft with C-20 sleeve
3	4140 Steel shaft with 440 Steel sleeve	8	316 SS shaft
4	4140 Steel shaft with C-20 sleeve	9	Special shaft with special sleeve

Digit 11 describes the shaft sealing method.

Digit 11	Description	Digit 11	Description
0	Standard Packed Stuffing box	7	John Crane Single Type 9 Clamped Q/XF1C1
1	John Crane Single Type 1 BF1C1	8	John Crane Single Type 9 Clamped Q/XF171
2	John Crane Single Type 1 BF171	9	Special Seal
3	John Crane Double Type 1 BF1C1		
4	John Crane Double Type 1 BF171		
5	John Crane Single Type 9 O-ring Q/XF1C1		
6	John Crane Single Type 9 O-ring Q/XF171		

Digit 12 describes the gland material for either packed stuffing box or mechanical seal construction.

Digit 12	Description	Digit 12	Description
1	Cast Iron	5	
2	Bronze	6	316 Stainless Steel
3		7	Alloy 20 (Also called C-20 for Carpenter 20 SS)
4	Ductile Iron	8 & 9	Special Material

NOTES: 1. 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.
2. These codes are set up for a standard oil lub pump. For any special construction or material configuration not listed, please list digits 9 thru 12 as 9999 and detail special construction features.

Chemical & Process ANSI Pumps

General
Furnish and install as indicated on plans and specifications qty _____ Deming Series 3060 Chemical & Process ANSI Centrifugal pump(s) for _____ type service.

Operating Conditions
Each pump shall be capable of delivering _____ GPM of _____ liquid against _____ feet total head. The characteristics of the liquid to be pumped are as follows:

Liquid Handled _____
Temperature _____
Specific Gravity _____
Nature of Solids Present _____
Percentage of Solids by Weight _____
Viscosity of Liquid at Pumping Temperature _____
$NPSH_A$ _____

NOTE: Add any additional facts concerning the nature of the liquid which might affect pump construction or application.

Casing
The casing of the pump shall be of (ductile)(316 st. stl.) material and shall be equipped with (125lb.)(150lb.) Flat face flanges on the inlet and outlet connections. The discharge connections shall be top centerline, and parallel to the shaft axis. The casing shall be designed for working pressures up to 250 lbs., with 1/8" corrosion allowance, and have optional (250lb.)(300 lb.) flanges or raised faces.

Rotating Assembly
The complete pump rotating assembly shall be removable from the casing for inspection and maintenance without disturbing the suction and discharge connections. Built in jack screw arrangement for ease of maintenance.

Impeller
The impeller shall be of the open single suction type of (cast iron)(316 st. stl.) both statically and hydraulically balanced for maximum efficiency and smooth operation. Balance holes shall be provided to keep smooth positive pressure on the mechanical seal and balanced axial thrust loads. The impeller shall be threaded to the shaft so that it will be continually tightening with shaft rotation.

Shaft Sleeve
Pumps shall be equipped with a hooked style shaft sleeve which is securely keyed to the shaft. The surface of the sleeve shall be finished to 32 micro inches. Sealing gaskets shall be provided to prevent leakage of the fluid pumped. The sleeve shall extent throughout the stuffing box area and shall be 440C (500 Brinnell) for packed pump or stainless steel, of the same metallurgy as the casings for a pump with mechanical seal. Optional is a solid alloy shaft less the sleeve.

Casing/Seal (Housing) Head Adapter
The pumps shall be packed box consisting of packing, Teflon seal cage and split gland. Stuffing box shall include water cooling jacket for use where required. The stuffing box shall include water cooling jacket for use where required. The stuffing box shall incorporate an external connection through which sealing liquid may be provided to the seal cage. Pump construction shall permit conversion from packed stuffing box to mechanical seal without special machining.

As an alternate to packing, the pump can be furnished with a single seal or double mechanical seal that is compatible with the material being pumped.

Motor
The motor shall be not less than _____ hp _____ RPM, NEMA design B squirrel cage type, (drip proof)(TEFC) EISA efficiency motor with (1.15)(1.0) service factor and suitable for operation on (115)(230) volt, 1 phase, (50)(60) Hertz power supply OR (200)(230)(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 accordance with standards of the Hydraulic Institute.

The pump and motor shall be mounted on a common (fabricated steel)(fabricated steel with drip rim) baseplate. Pumps are to be coupled to the driver by means of an approved spacer type coupling with an OSHA approved coupling guard.

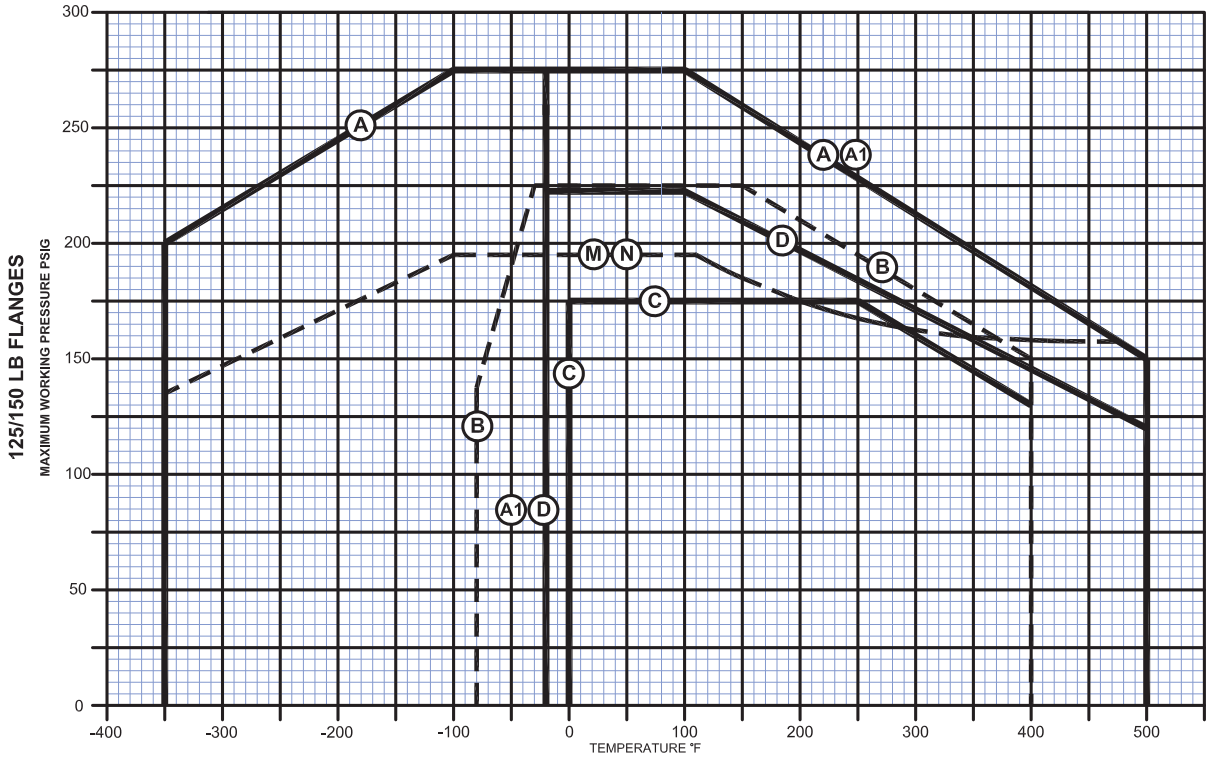
Chemical & Process ANSI Pumps

ITEM	MATERIAL GROUP	DUCTILE IRON	D.I. w/ 316 Case & P.B. Cover	TYPE 316 STAINLESS	A-20 STAINLESS
	GROUP NO.	4	46	6	7
	NAME OF PART				
1	Casing	Ductile	316	316	A-20
2	Impeller	Cast Iron	Cast Iron	316	A-20
6	Shaft (Solid)	4140 Steel		316	C-20
6A	Shaft (with Sleeve)	4140 Steel			
14	Shaft Sleeve	316		316	A-20
11	Packing Box Cover	Ductile	316	316	A-20
13	Packing	Garlock 8913		JC 1335 Teflon	
16	Ball Bearing	Steel			
17	Split Gland	Ductile	A-20		A-20
17A	Snuffing Gland	Ductile	A-20		A-20
18	Ball Bearing	Steel			
19	Frame	Cast Iron			
22	Bearing Lock Nut	Steel			
29	Lantern Ring	Teflon			
33	Bearing Housing	Ductile			
35	Bearing Cover I.B.	Cast Iron			
37	Bearing Cover O.B.	Ductile			
38	Shaft Gasket	Teflon			
40	Deflector	Glass Filled Teflon			
47	Bearing Cover Seal	Buna			
49	Bearing Cover Seal	Buna			
51	Oil Slinger	Bronze			
69	Bearing Lock Washer	Steel			
73	Casing Gasket	Durabla			
77	Lubricator	Steel and Plastic			
203	Nameplate	304			
204	Adjusting Lock Nut	Cadmium Plated Steel			
* 206	Split Gland Clip	316			
208	Pipe Plug	M.I.		316	C-20
210	Hex Nuts	316			C-20
212	Cap Screws	Steel		304	
213	Cap Screws	Cadmium Plated Steel			
214	Drive Screw	304			
232	O-ring	Buna			
235	Breather	Steel			
239	Stud	Steel		304	
249	Hex Nut	Steel		304	
273	Casing Foot	Cast Iron			
274	Frame Foot	Cast Iron			
275	Lifting Ring	Steel			
276	Cap Screw	Steel			
277	Cap Screw	Steel			
279	Shaft Sleeve Key	Stainless Steel			
281	Gland Stud	316			C-20
282	Washer	316			C-20
283	Cap Screw	316			C-20
284	Snuffing Gland Ring	Garlock 8913			
285	Drip Pan	316			
286	Jack Screw	Cadmium Plated Steel			
292	Drain Plug Gasket	Glass Filled Teflon			
293	Bearing Nameplate	304			
332	Cap Screw	Cadmium Plated Steel			
65	Mechanical Seal	As Specified			
251	Seal Gland	As Specified			
401	Gland Gasket	Durabla			

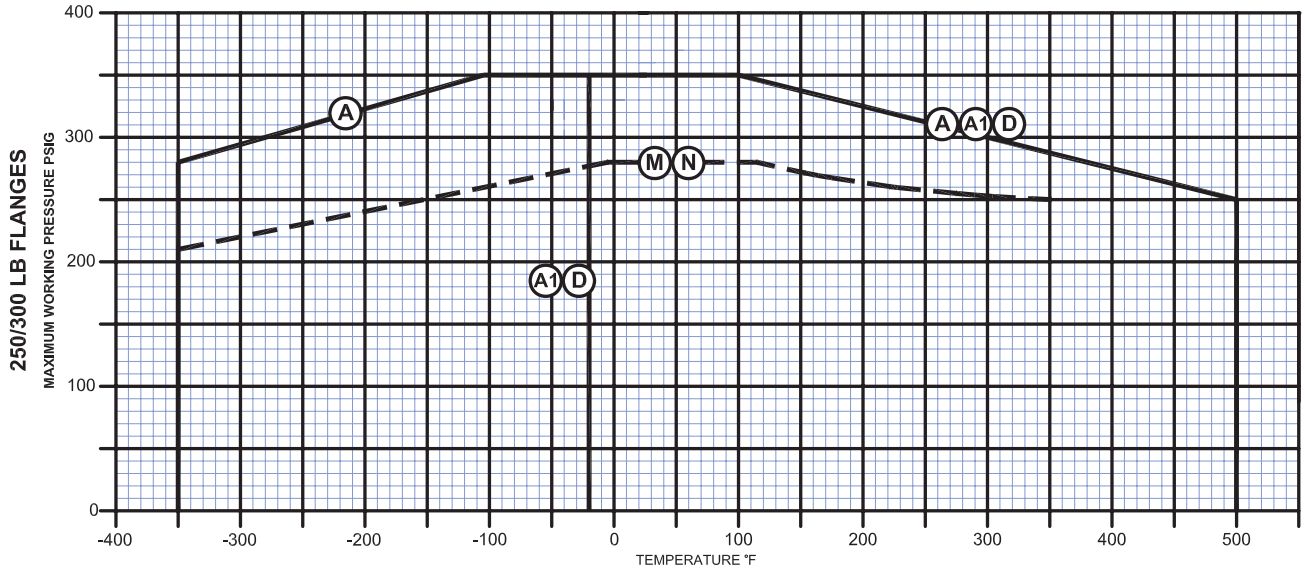
(*) Omit with Seal Construction

Chemical & Process ANSI Pumps

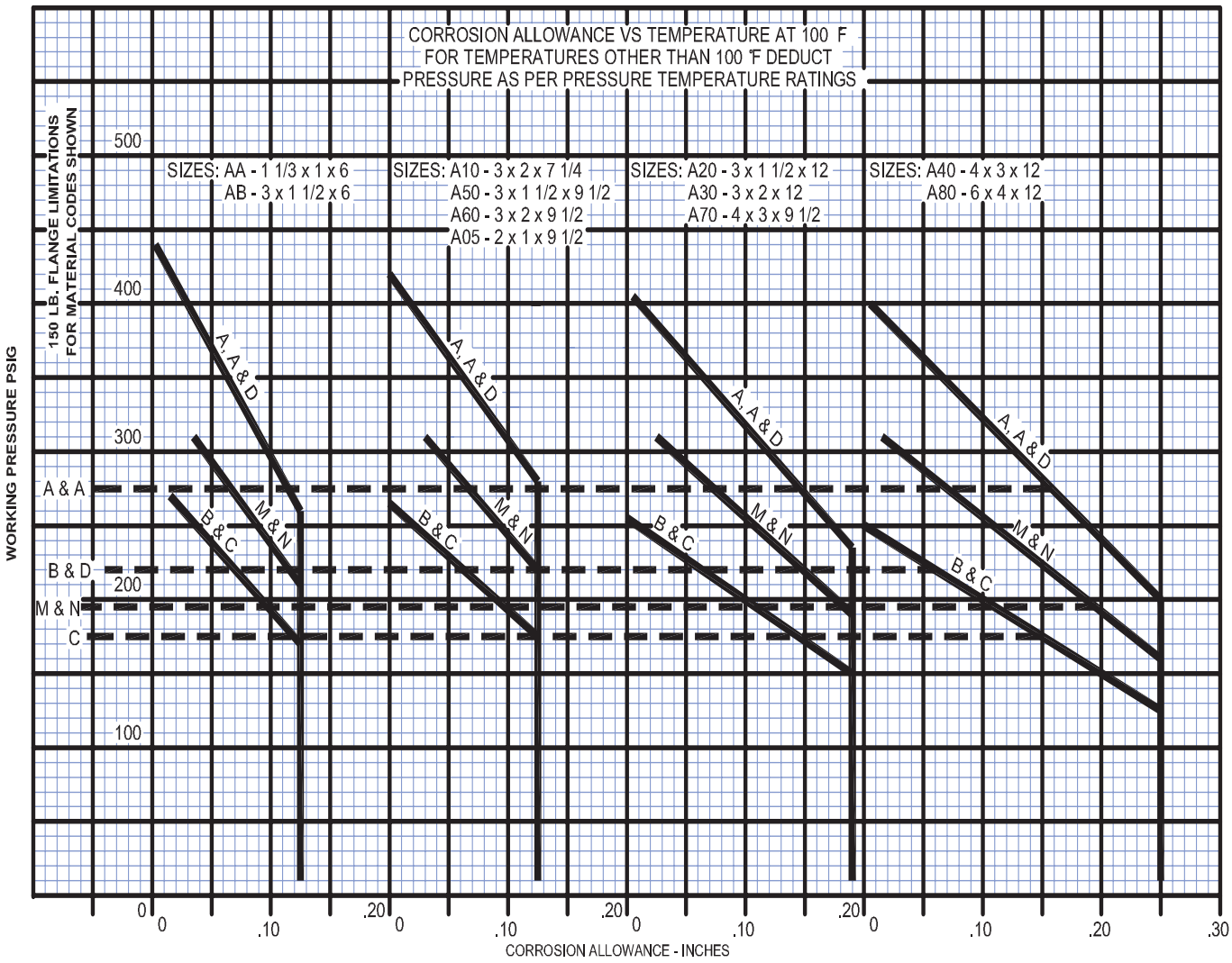
FIGURE NO.		3062				3065									3066		
ANSI NUMBER		**AA**	**AB**	**AA**	**AB**	**A05**	**A10**	**A50**	**A60**	**A70**	**A20**	**A30**	**A40**	**A80**	**A20**	**A30**	**A80**
SUCTION		1½	3	1½	3	2	3	3	3	4	3	3	4	6	3	3	6
DISCHARGE		1	1½	1	1½	1	2	1½	2	3	1½	2	3	4	1½	2	4
MAXIMUM DIAMETER IMPELLER		6	6	8	8	9½	7¼	9½	9½	9½	12	12	12	12	12	12	15
MAXIMUM SOLIDS (OPEN IMPELLER)		3/8	1/2	3/8	1/2	1/4	7/16	5/16	5/8	3/4	3/8	3/8	11/16	1⅛	3/8	3/8	1
IMPELLER EYE AREA		3.97	9.62	3.98	5.93	6.49	9.62	9.62	9.62	15.9	9.62	9.62	15.9	38.4	9.62	9.62	28.27
SHAFT DATE	DIAMETER AT COUPLING	.875				1.125									1.125		
	DIAMETER AT BEARING – COUPLING	1.181				1.968									2.165		
	DIAMETER AT BEARING – PACKING BOX	1.378				1.771									2.165		
	DIAMETER BETWEEN BEARINGS	1.562				2.250									2.500		
	DIAMETER AT PACKING BOX UNDER SLEEVE	1.000				1.375									1.875		
	DIAMETER AT PKG. BOX SOLID OR SLEEVE O.D.	1.250				1.750									2.125		
	DIAMETER AT IMPELLER	.875				1.250									1.625		
PACKING BOX I.D.		1-7/8				2-1/2									3		
PACKING BOX LENGTH		2-1/4				2-5/8									3-1/16		
LANTERN RING WIDTH		1/2				5/8									3/4		
PACKING	NO. 8 SIZE	5-5/16 SQ.				5-3/8 SQ.									5-7/16 SQ.		
	LENGTH	5-1/4				7									8-1/2		
BEARING AT COUPLING END		ND 5206WLIA				ND 5210WLIA									ND 5311WLIA		
BEARING AT PACKING BOX END		ND 3207				ND 3309									ND 3311		
BEARING CENTER LINE TO BEARING CENTER LINE		5-1/8				6-13/16									6-7/16		
BEARING CENTER LINE TO IMPELLER CENTER LINE		6-1/16	6-1/8	6-1/16	6-1/8	8-3/8	9-1/2	8-1/4	8-3/8	8-9/16	8-1/4	8-3/8	8-9/16	8-9/16	8-3/8	8-1/2	9-3/4
SUCTION WALL THICKNESS		3/8				7/16	3/8	7/16	3/8	7/16	7/16	7/16	1/2	5/8	7/16	7/16	9/16
VOLUTE (CASING) WALL THICKNESS		5/16				3/8	3/8	3/8	3/8	7/16	7/16	7/16	1/2	9/16	7/16	7/16	9/16
STUDS FOR SPLIT 8 SNUFFING GLAND (2)		3/8 x 2				3/8 x 2									3/8 x 2-1/4		
STUDS FOR SEAL GLAND (4)		3/8 x 2				3/8 x 2									3/8 x 2-1/4		
NEAREST OBSTRUCTION PACKING BOX-DEFLECTOR		2-1/8				2-7/8									1-15/16		
WEIGHT BARE PUMP		70	74	73	78	150	160	175	185	200	200	220	240	280	220	240	320
ANSI NUMBERS		**AA**	**AB**	**AA**	**AB**	**A05**	**A10**	**A50**	**A60**	**A70**	**A20**	**A30**	**A40**	**A80**	**A20**	**A30**	**A80**
WR^2 EFFECT LB. $FT.^2$	FULL DIA. 100%	0.365	0.414	0.649	0.737	1.450	1.106	1.450	1.630	2.088	3.069	3.149	3.800	3.310	2.889	3.804	5.18
	DIA. 85%	0.30	0.33	0.555	0.632	1.01	0.80	1.01	1.11	1.40	2.00	2.05	2.45	2.15	1.91	2.48	4.40
	DIA. 70%	0.26	0.275	0.454	0.516	0.91	0.49	0.91	0.76	0.092	1.25	1.28	1.50	1.34	1.05	1.55	3.70
FIRST CRITICAL SPEED RPM		11,200	12,830	10,900	10,300	10,146	9,260	10,146	9,432	8,125	8,247	8,125	7,332	7,920	10,510	9,068	6,336



MATERIAL CODE FOR THESE CHARTS						
CODE A	CODE A1	CODE B	CODE C	CODE D	CODE M	CODE N
304 SS 316 SS CARP. A-20 HASTELLOY B HASTELLOY C TITANIUM ZIRCONIUM	CARBON STEEL	BRONZE #5	CAST IRON	DUCTILE IRON	MONEL	NICKEL



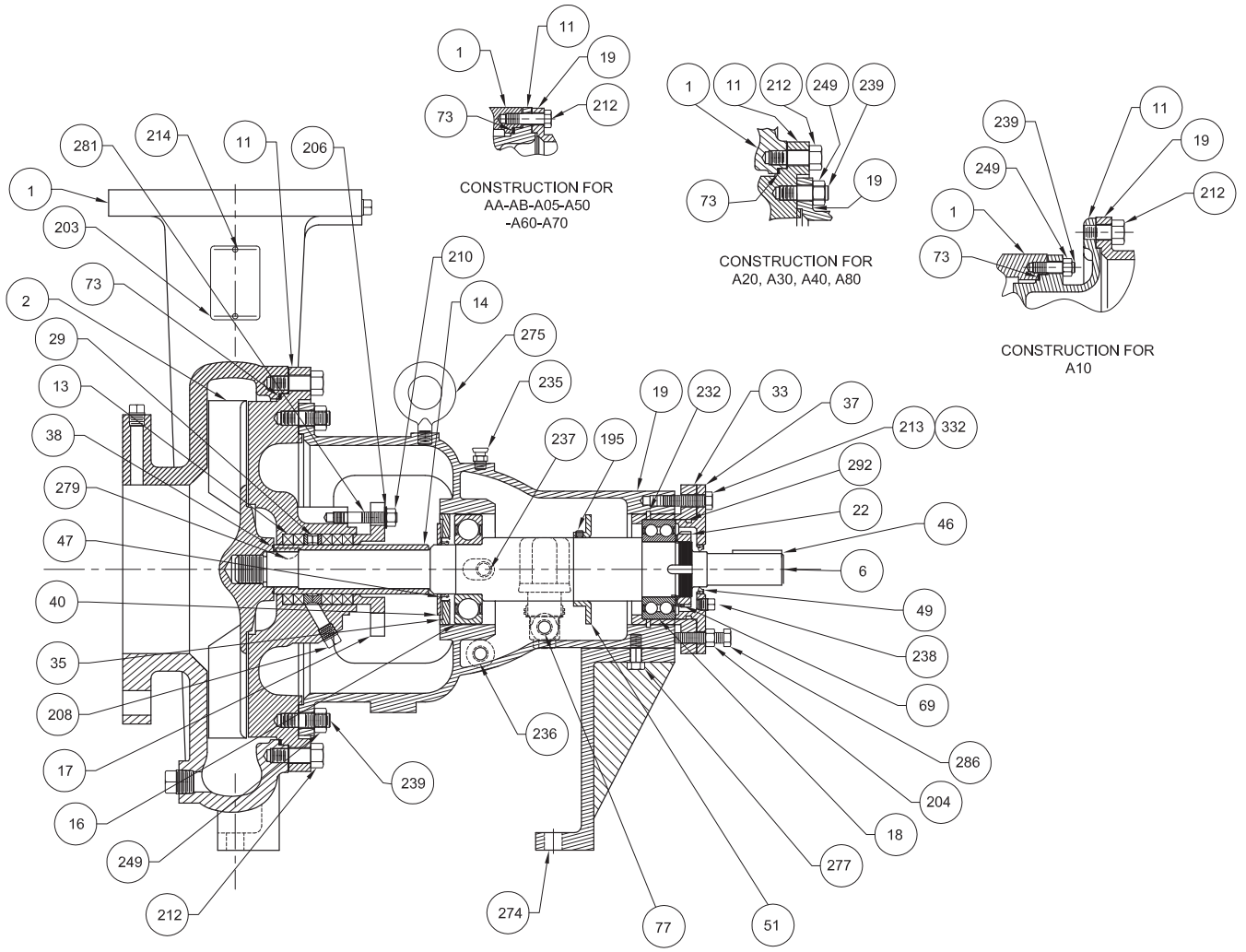
Chemical & Process ANSI Pumps



EXAMPLES:	AA-E PUMP - STEEL CASE - 300# FLANGES
	100°F - Maximum Working Pressure = 350 psi (PT chart) Corrosion Allowance = .0623" = 1/16" (CA chart) 500°F - Maximum Working Pressure = 250 psi (PT chart) Corrosion Allowance = .125" = 1/8" (CA chart)
	A20 PUMP - DUCTILE IRON CASE - 150# FLANGES
	100°F - Maximum Working Pressure = 220 psi (PT chart) Corrosion Allowance = .22" = 7/32" (CA chart) 100°F - Actual Working Pressure = 50 psi (Assumed) Corrosion Allowance = .25" = 1/4" (CA chart)

Minimum case corrosion allowance with good design practice is 1/16" at the maximum allowable working pressure of the pump. Figure 3060 pumps have this allowance. However, for a given case thickness, corrosion allowance varies inversely with actual working pressure. Thus, a user operating a pump at lower working pressure can permit more than 1/16" corrosion before retiring the case. The above chart is designed to illustrate this. To find corrosion allowance enter chart at maximum or actual working pressure and read corrosion allowance at intersection of solid line (diagonal or vertical).

Chemical & Process ANSI Pumps

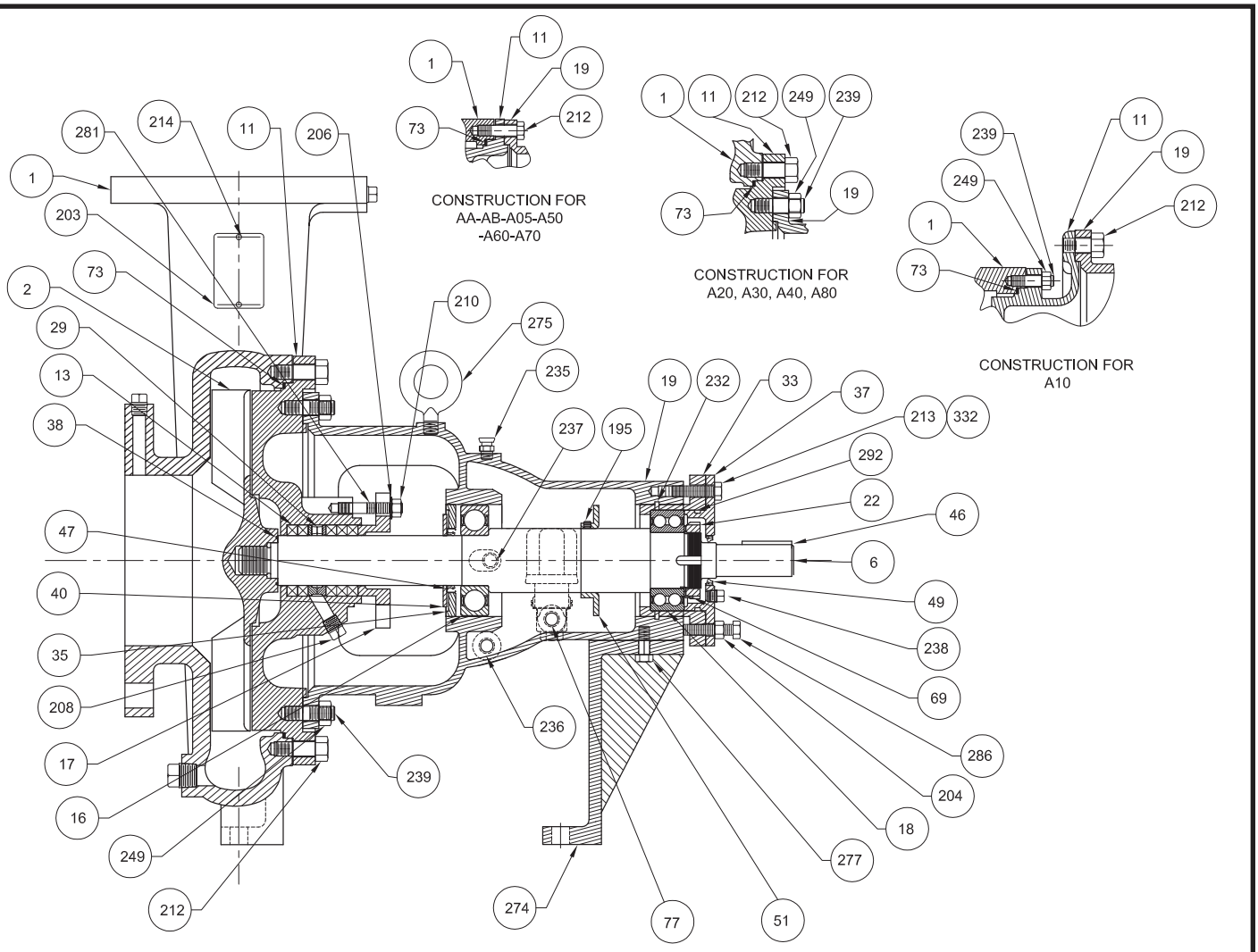


ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather
236	Pipe Plug

ITEM No.	DESCRIPTION
237	Pipe Plug
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
332	Cap Screw

Chemical & Process ANSI Pumps



ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

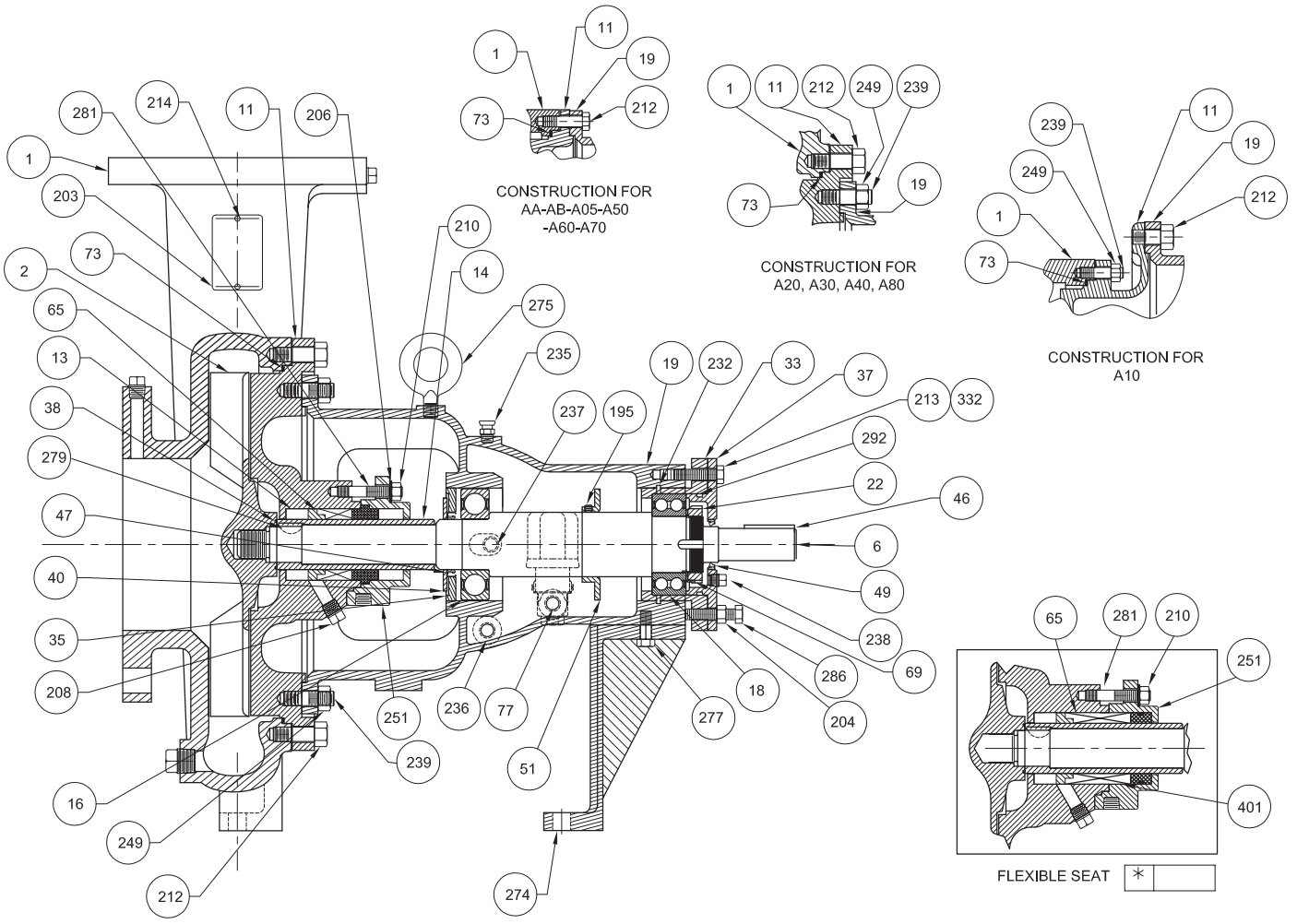
ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather

ITEM No.	DESCRIPTION
236	Pipe Plug
237	Pipe Plug
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
332	Cap Screw

Pump Assembly - 3060 Series

Oil Lubricated Construction with Shaft Sleeve
Single Mechanical Seal - Bulletin 3060

Chemical & Process ANSI Pumps

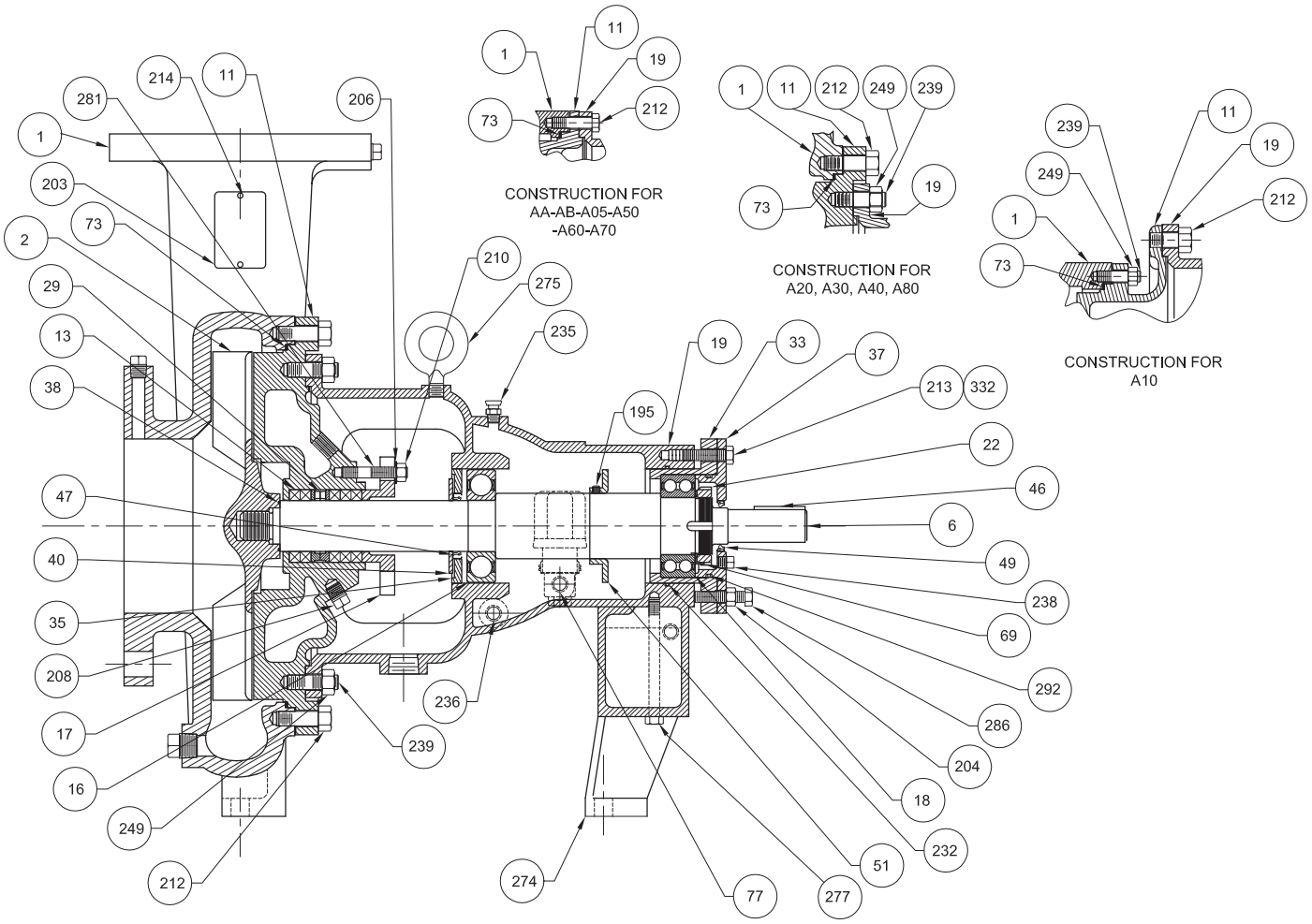


ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
14	Shaft Sleeve
16	Bearing (inboard)
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger

ITEM No.	DESCRIPTION
65	Mechanical Shaft Seal
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather
236	Pipe Plug
237	Pipe Plug
238	Pipe Plug
251	Seal Gland

ITEM No.	DESCRIPTION
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
332	Cap Screw
401	Gasket

Chemical & Process ANSI Pumps



ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
16	Bearing (inboard)
17	Gland, Split
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35	Bearing Cover - Inboard
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38	Shaft gasket
40	Deflector
46	Coupling Key

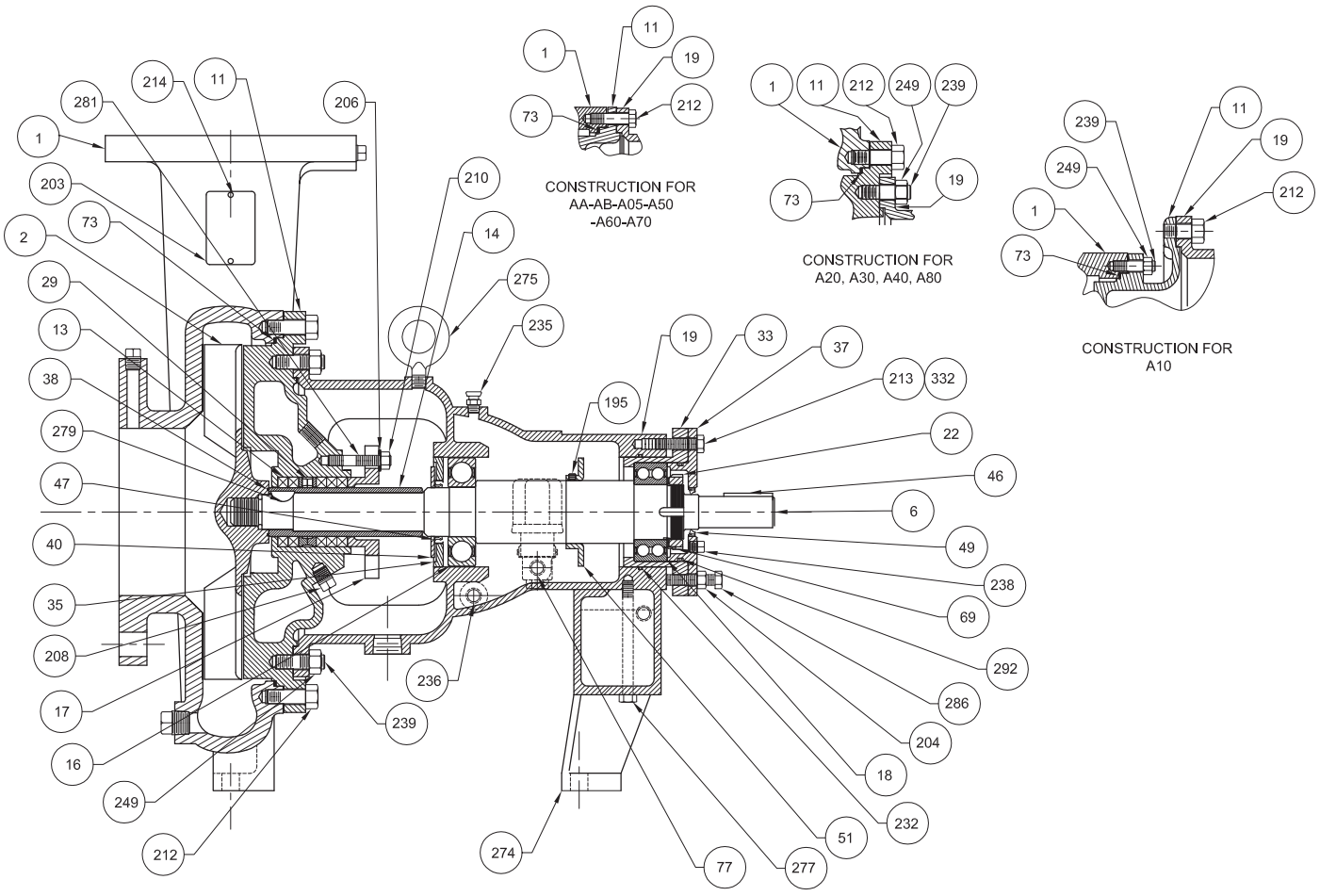
ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather

ITEM No.	DESCRIPTION
236	Pipe Plug
237	Pipe Plug
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
280	Gasket
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
332	Cap Screw

Pump Assembly - 3060 Series

Water Jacketed - Oil Lubricated Construction
with Shaft Sleeve - Bulletin 3060

Chemical & Process ANSI Pumps

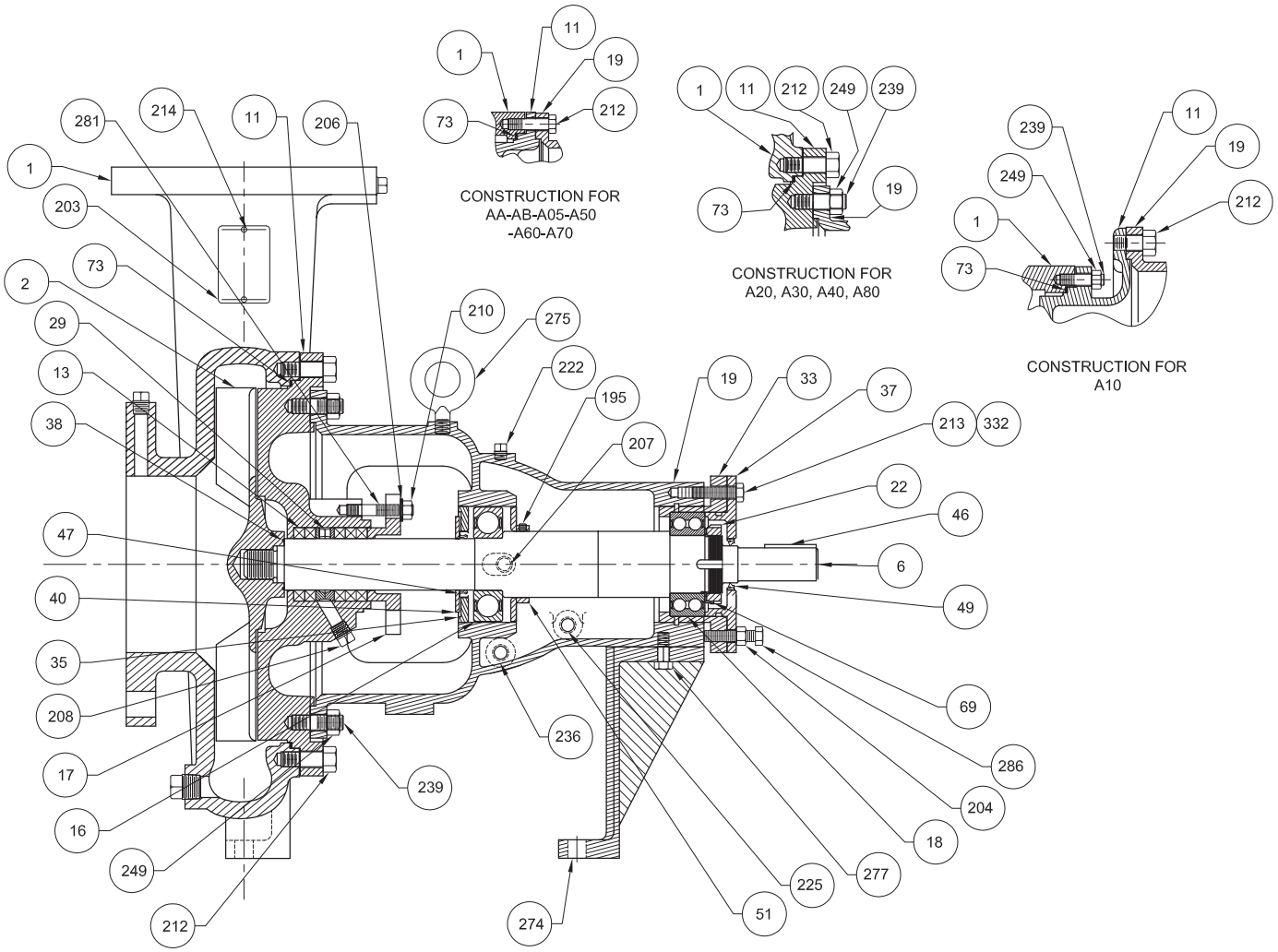


ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather
236	Pipe Plug

ITEM No.	DESCRIPTION
237	Pipe Plug
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
280	Gasket
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
332	Cap Screw

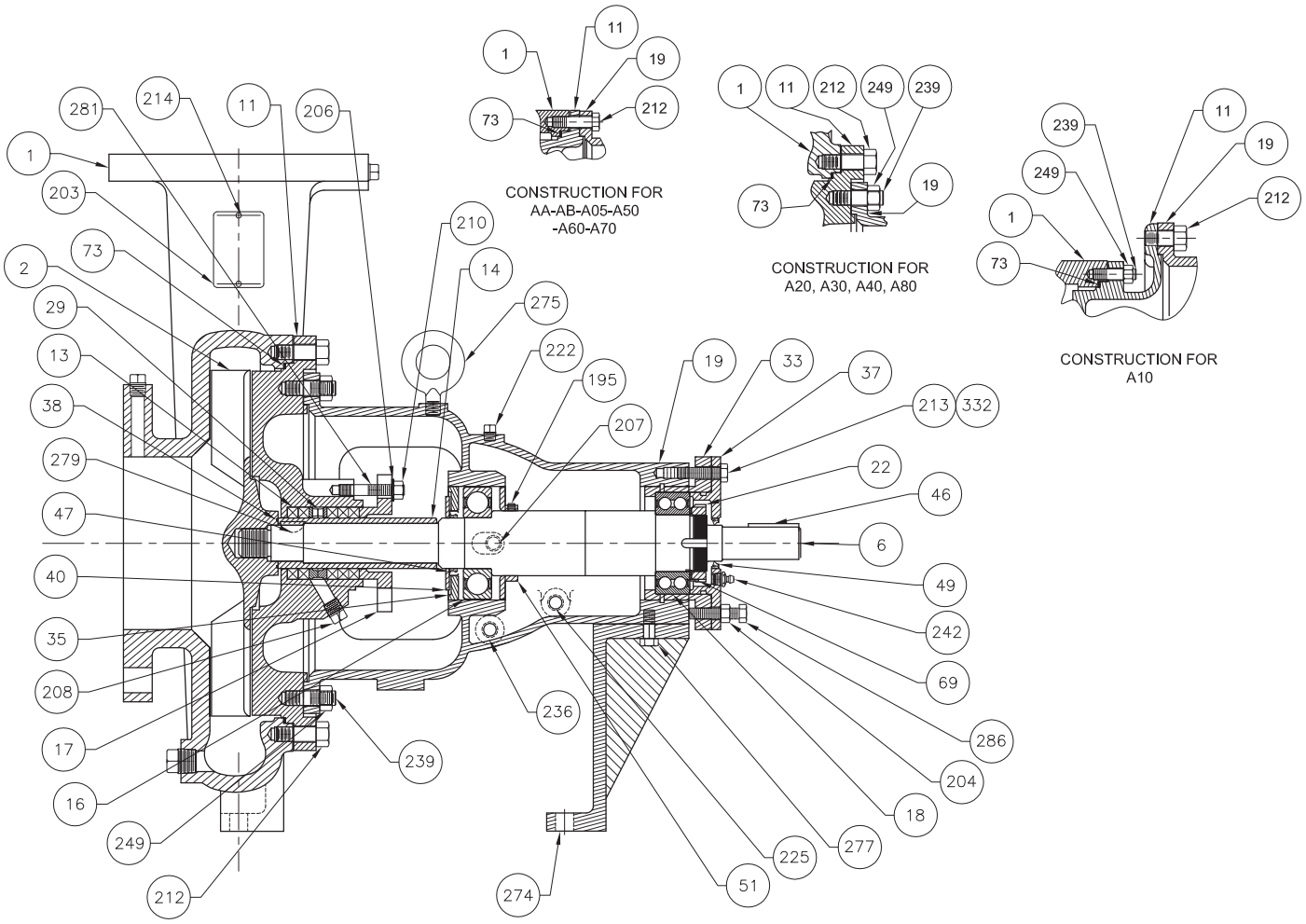
Chemical & Process ANSI Pumps



ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Grease Retainer
69	Lockwasher, Bearing
73	Casing Gasket
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
222	Pipe Plug
225	Pipe Plug
236	Pipe Plug

ITEM No.	DESCRIPTION
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
281	Gland Stud
286	Jack Screw (Bearing Cover
293	Bearing Nameplate (Not Shown)
332	Cap Screw



ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
222	Pipe Plug
225	Pipe Plug
236	Pipe Plug

ITEM No.	DESCRIPTION
239	Stud
242	Grease Fitting
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
281	Gland Stud
286	Jack Screw (Bearing Cover
293	Bearing Nameplate (Not Shown)
332	Cap Screw

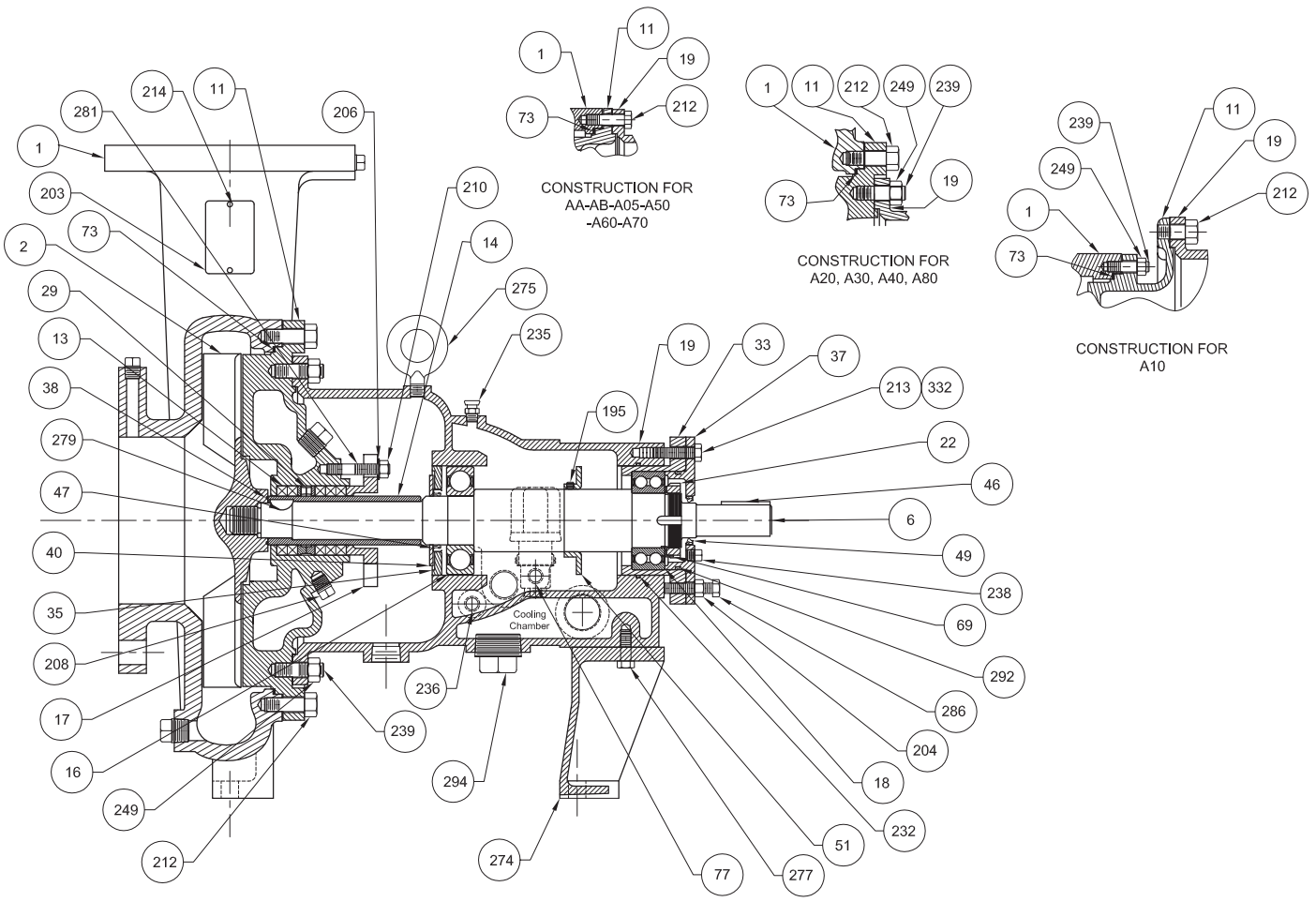
Pump Assembly - 3060 Series

Oil Lubricated Construction with Shaft Sleeve,
Jacketed Packing Box, Cooling Frame - Bulletin 3060

DEMING®

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Chemical & Process ANSI Pumps



ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather
236	Pipe Plug

ITEM No.	DESCRIPTION
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
294	Pipe Plug
332	Cap Screw

CRANE®

A Crane Co. Company

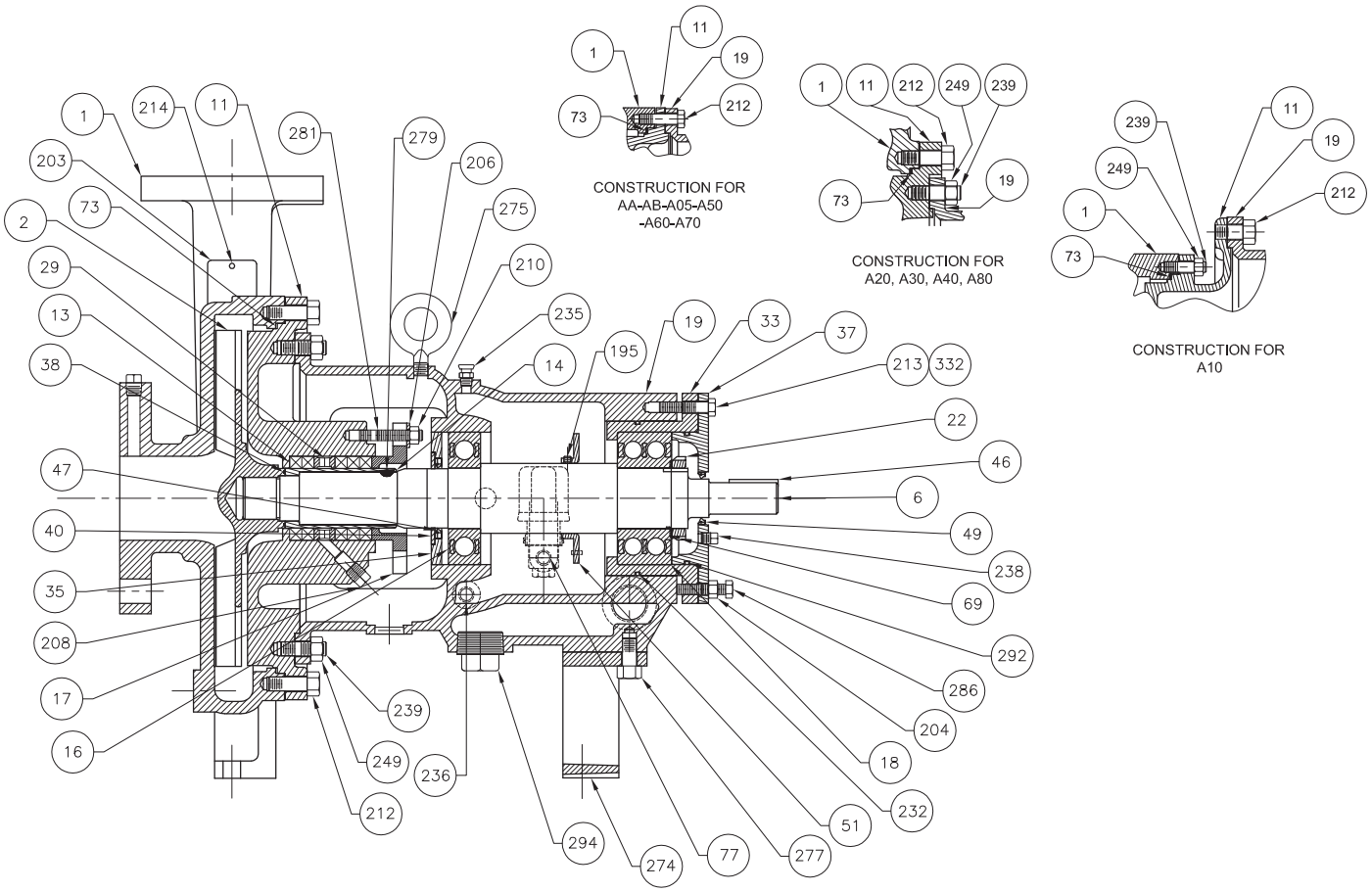
PUMPS & SYSTEMS

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Pump Assembly - 3060 Series

Oil Lubricated Construction with Shaft Sleeve
Fig. 3066 Cooling Frame - Bulletin 3060

Chemical & Process ANSI Pumps

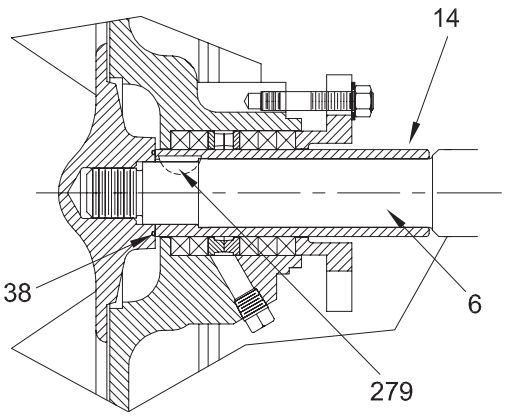


ITEM No.	DESCRIPTION
1	Casing
2	Impeller
6	Shaft
11	Packing Box Cover
13	Packing
14	Shaft Sleeve
16	Bearing (inboard)
17	Gland, Split
18	Bearing (outboard)
19	Frame
22	Nut, Bearing Lock
29	Lantern Ring
33	Bearing Housing - Outboard
35	Bearing Cover - Inboard
37	Bearing Cover - Outboard
38	Shaft gasket
40	Deflector
46	Coupling Key

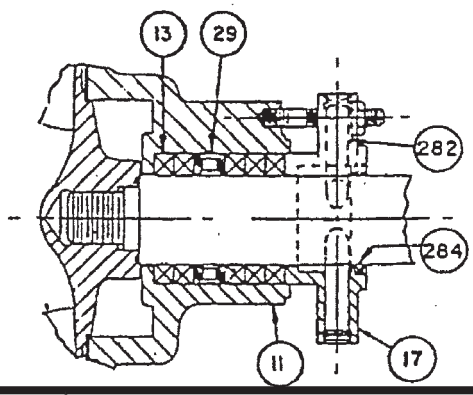
ITEM No.	DESCRIPTION
47	Bearing Cover Seal - Inboard
49	Bearing Cover Seal-Outboard
51	Oil Slinger
69	Lockwasher, Bearing
73	Casing Gasket
77	Lubricator
195	Set Screw
203	Name Plate
204	Adjusting Locknut
206	Split Gland Clip
208	Pipe Plug
210	Hex Nut
212	Cap screw
213	Cap Screw
214	Drive screw
232	O-ring
235	Breather
236	Pipe Plug

ITEM No.	DESCRIPTION
238	Pipe Plug (not shown)
239	Stud
249	Hex Nut
274	Frame Foot
275	Lifting Ring
277	Cap screw
278	Caution Lable
279	Shaft Sleeve Key
281	Gland Stud
286	Jack Screw (Bearing Cover
292	O-ring (Bearing Cover)
293	Bearing Nameplate (Not Shown)
294	Pipe Plug
332	Cap Screw

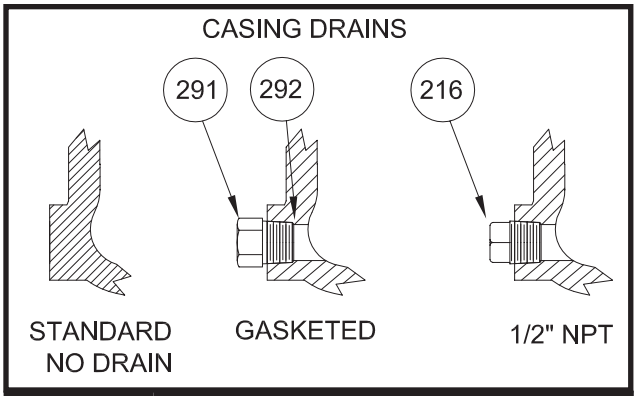
Chemical & Process ANSI Pumps



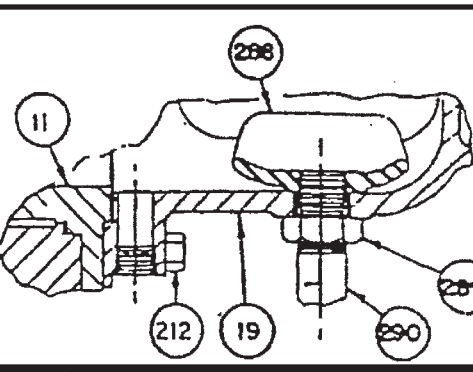
ITEM NO.	DESCRIPTION
6	Pump Shaft
11	Packing Box Cover
14	Shaft Sleeve
38	Shaft & Sleeve Key



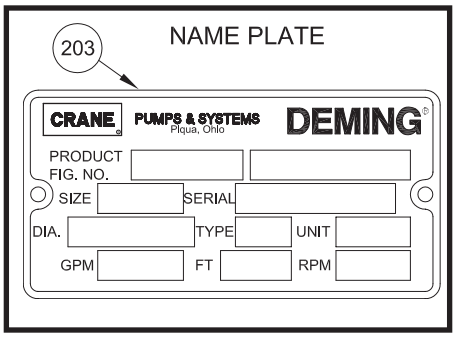
ITEM NO.	DESCRIPTION
11	Packing Box Cover
13	Packing
17	Snuffing Gland
29	Lantern Ring
282	Snuffing Gland Washer
284	Snuffing Gland Ring

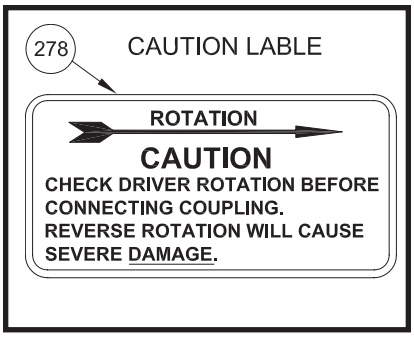


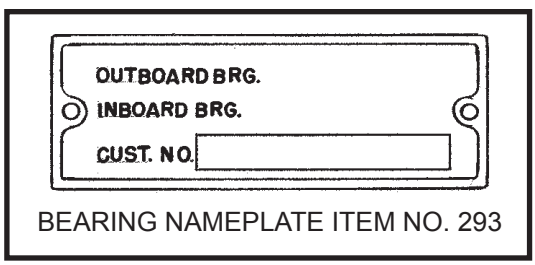
ITEM NO.	DESCRIPTION
216	Pipe Plug
291	Drain Plug
292	Drain Plug Gasket



ITEM NO.	DESCRIPTION
11	Packing Box Cover
19	Frame
212	Cap Screw
288	Drip Pan
289	Pipe Nut
290	Pipe







BEARING NAMEPLATE ITEM NO. 293

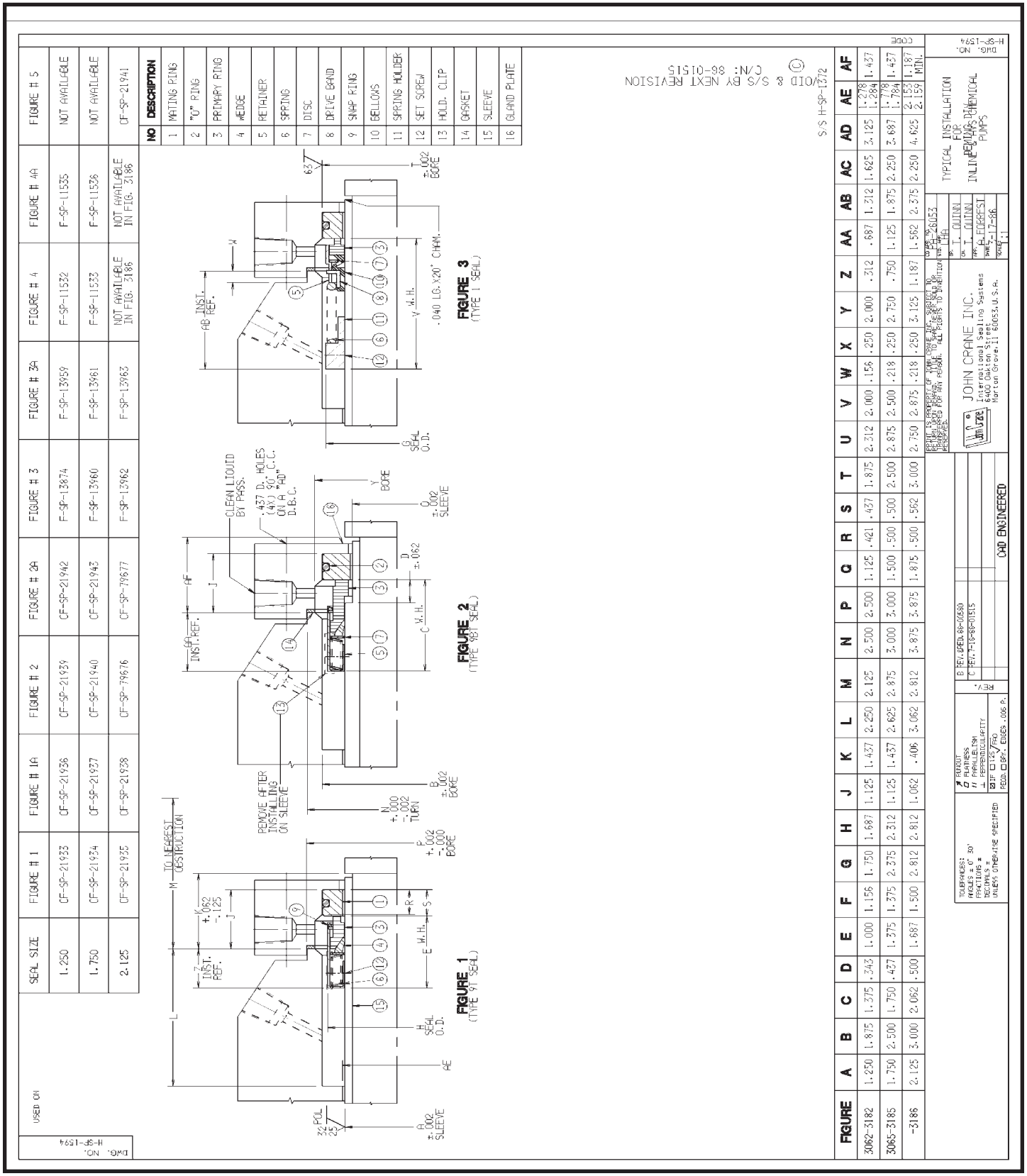
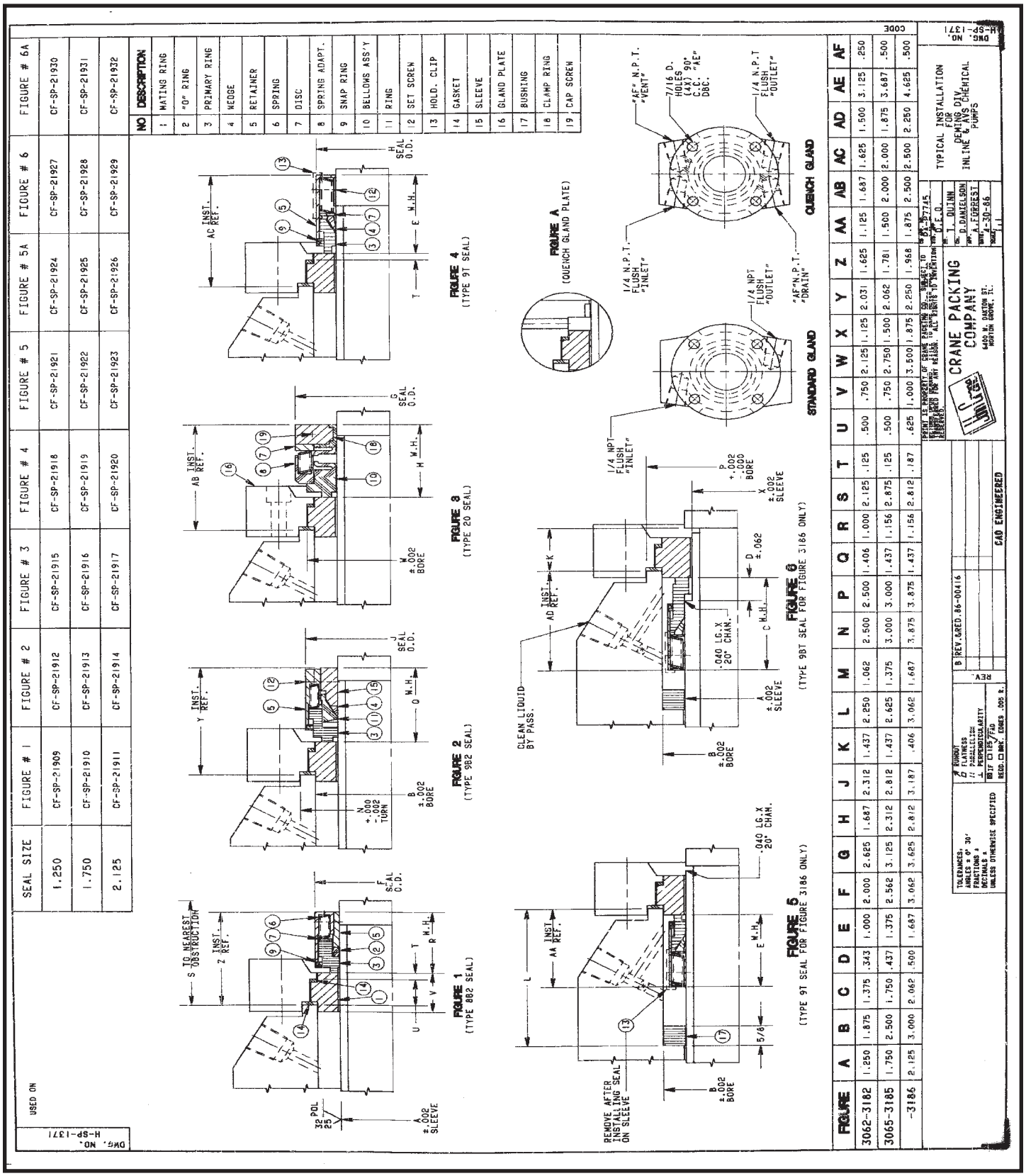


FIGURE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
3062-3182	1.250	1.875	1.375	.343	1.000	1.156	1.750	1.687	1.125	1.437	2.250	2.125	2.500	2.500	1.125	.421	.437	1.875	2.312	2.000	.156	.250	2.000	.312	.687	1.312	1.625	3.125	1.278 / 1.284	1.437
3065-3185	1.750	2.500	1.750	.437	1.375	1.375	2.375	2.312	1.125	1.437	2.625	2.875	3.000	3.000	1.500	.500	.500	2.500	2.875	2.500	.218	.250	2.750	.750	1.125	1.875	2.250	3.687	1.778 / 1.784	1.437
-3186	2.125	3.000	2.062	.500	1.687	1.500	2.812	2.812	1.062	.406	3.062	2.812	3.875	3.875	1.875	.500	.562	3.000	2.750	2.875	.218	.250	3.125	1.187	1.562	2.375	2.250	4.625	2.153 / 2.159	1.187 MIN.

SEAL SIZE	FIGURE # 1	FIGURE # 1A	FIGURE # 2	FIGURE # 2A	FIGURE # 3	FIGURE # 3A	FIGURE # 4	FIGURE # 4A	FIGURE # 5
1.250	CF-SP-21933	CF-SP-21936	CF-SP-21939	CF-SP-21942	F-SP-13874	F-SP-13959	F-SP-11532	F-SP-11535	NOT AVAILABLE
1.750	CF-SP-21934	CF-SP-21937	CF-SP-21940	CF-SP-21943	F-SP-13960	F-SP-13961	F-SP-11533	F-SP-11536	NOT AVAILABLE
2.125	CF-SP-21935	CF-SP-21938	CF-SP-79676	CF-SP-79677	F-SP-13962	F-SP-13963	NOT AVAILABLE IN FIG. 3186	NOT AVAILABLE IN FIG. 3186	CF-SP-21941

NO	DESCRIPTION
1	MATING RING
2	"O" RING
3	PRIMARY RING
4	WEDGE
5	RETAINER
6	SPRING
7	DISC
8	DRIVE BAND
9	SNAP RING
10	BELLOWS
11	SPRING HOLDER
12	SET SCREW
13	HOLD. CLIP
14	GASKET
15	SLEEVE
16	GLAND PLATE

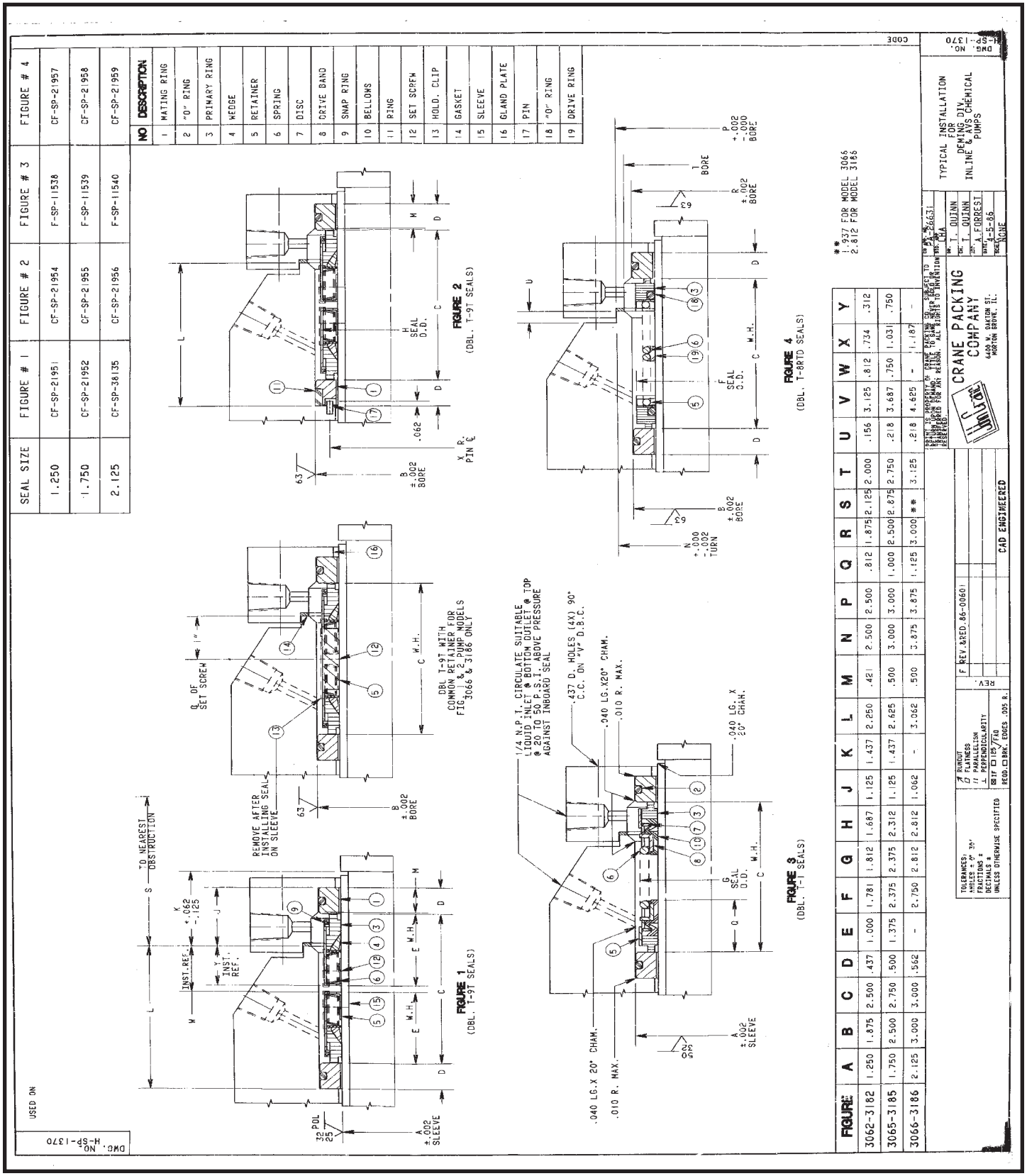
Chemical & Process ANSI Pumps



SEAL SIZE	FIGURE # 1	FIGURE # 2	FIGURE # 3	FIGURE # 4	FIGURE # 5	FIGURE # 5A	FIGURE # 6	FIGURE # 6A
1.250	CF-SP-21909	CF-SP-21912	CF-SP-21915	CF-SP-21918	CF-SP-21921	CF-SP-21924	CF-SP-21927	CF-SP-21930
1.750	CF-SP-21910	CF-SP-21913	CF-SP-21916	CF-SP-21919	CF-SP-21922	CF-SP-21925	CF-SP-21928	CF-SP-21931
2.125	CF-SP-21911	CF-SP-21914	CF-SP-21917	CF-SP-21920	CF-SP-21923	CF-SP-21926	CF-SP-21929	CF-SP-21932

NO	DESCRIPTION
1	MATING RING
2	"O" RING
3	PRIMARY RING
4	WEDGE
5	RETAINER
6	SPRING
7	DISC
8	SPRING ADAPT.
9	SNAP RING
10	BELLOWS ASS'Y
11	RING
12	SET SCREW
13	HOLD. CLIP
14	GASKET
15	SLEEVE
16	GLAND PLATE
17	BUSHING
18	CLAMP RING
19	CAP SCREW

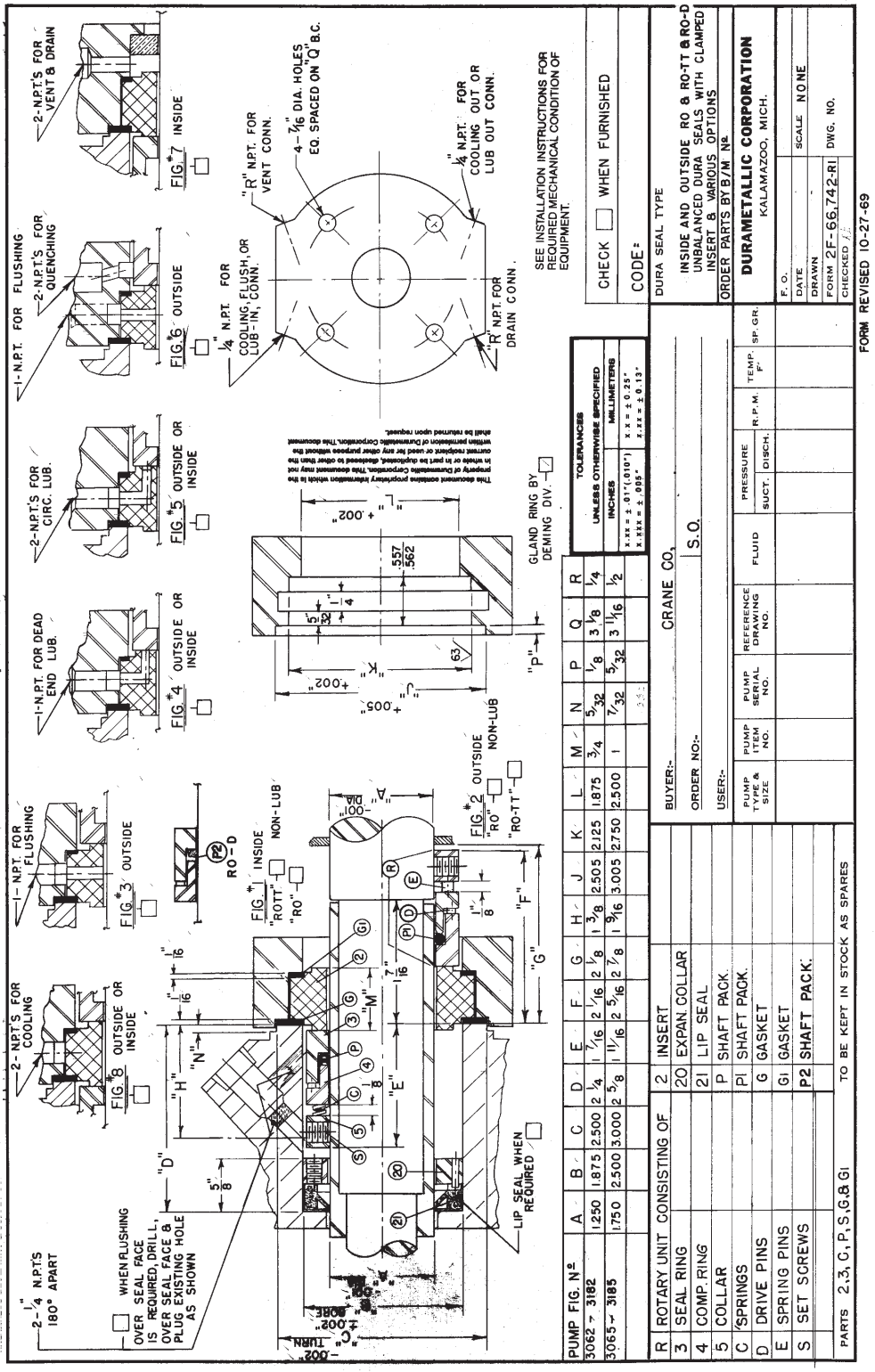
FIGURE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
3062-3182	1.250	1.875	1.375	.343	1.000	2.000	2.625	1.687	2.312	1.437	2.250	.062	2.500	2.500	.406	1.000	2.125	.125	.500	.750	2.125	1.125	2.031	1.625	1.125	1.687	1.625	1.500	3.125	.250
3065-3185	1.750	2.500	1.750	.437	1.375	2.562	3.125	2.312	2.812	1.437	2.625	1.375	3.000	3.000	.437	1.156	2.875	.125	.500	.750	2.750	1.500	2.062	1.781	1.500	2.000	2.000	1.875	3.687	.500
-3186	2.125	3.000	2.062	.500	1.687	3.062	3.625	2.812	3.187	.406	3.062	1.687	3.875	3.875	1.437	1.156	2.812	.187	.625	1.000	3.500	1.875	2.250	1.968	1.875	2.500	2.500	2.250	4.625	.500

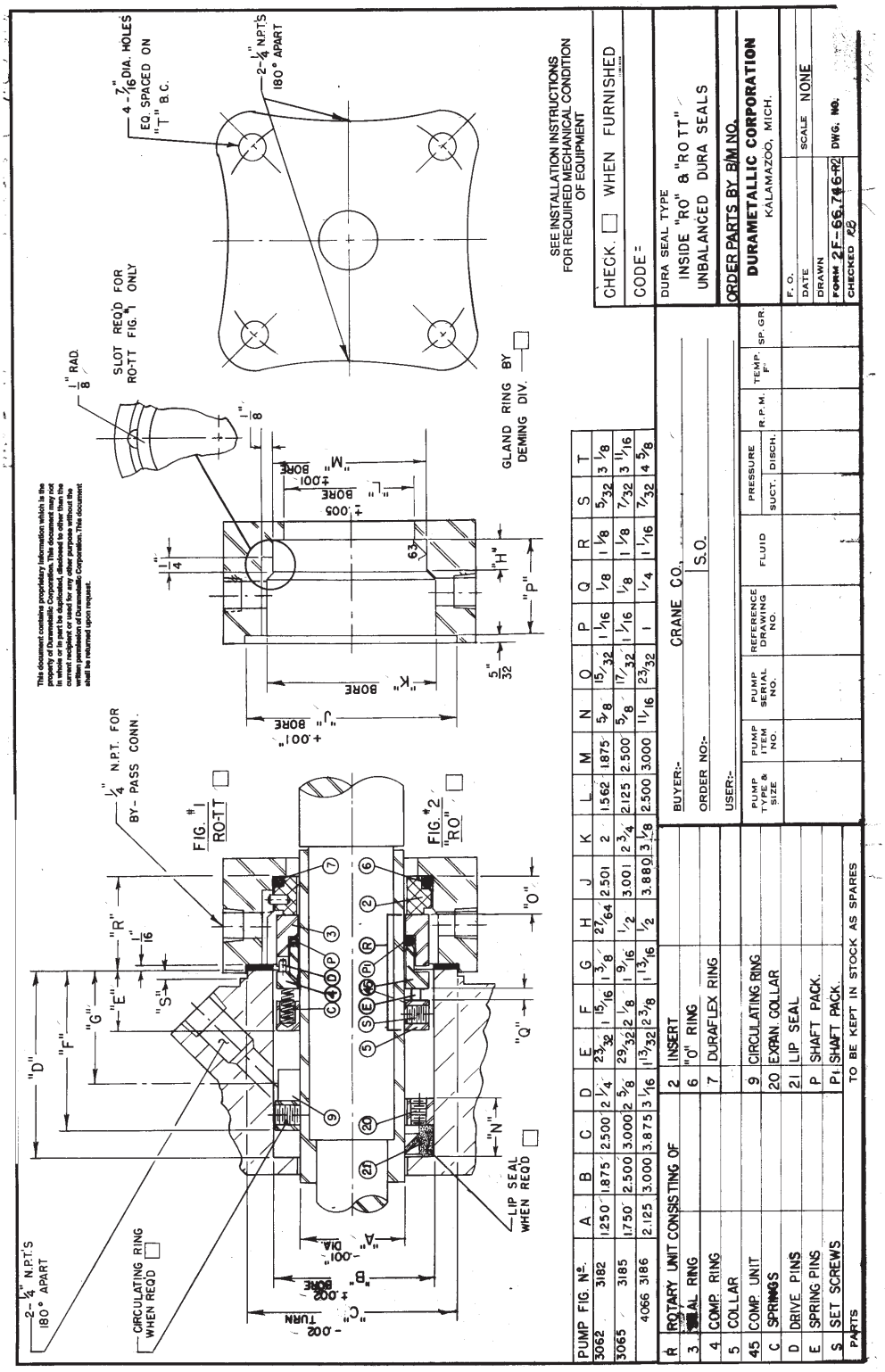


NO	DESCRIPTION	FIGURE # 1	FIGURE # 2	FIGURE # 3	FIGURE # 4
1	MATING RING	CF-SP-21951	CF-SP-21954	F-SP-11538	CF-SP-21957
2	"O" RING	CF-SP-21952	CF-SP-21955	F-SP-11539	CF-SP-21958
3	PRIMARY RING	CF-SP-21953	CF-SP-21956	F-SP-11540	CF-SP-21959
4	WEDGE				
5	RETAINER				
6	SPRING				
7	DISC				
8	DRIVE BAND				
9	SNAP RING				
10	BELLOWS				
11	RING				
12	SET SCREW				
13	HOLD. CLIP				
14	GASKET				
15	SLEEVE				
16	GLAND PLATE				
17	PIN				
18	"O" RING				
19	DRIVE RING				

SEAL SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y
1.250	1.250	1.875	2.500	.437	1.000	1.781	1.812	1.687	1.125	1.437	2.250	.421	2.500	2.500	.812	1.875	2.125	2.000	.156	3.125	.812	.734	.312
1.750	1.750	2.500	2.750	.500	1.375	2.375	2.375	2.312	1.125	1.437	2.625	.500	3.000	3.000	1.000	2.500	2.875	2.750	.218	3.687	.750	1.031	.750
2.125	2.125	3.000	3.000	.562	-	2.750	2.812	2.812	1.062	-	3.062	.500	3.875	3.875	1.125	3.000	**	3.125	.218	4.625	-	1.187	-

Chemical & Process ANSI Pumps



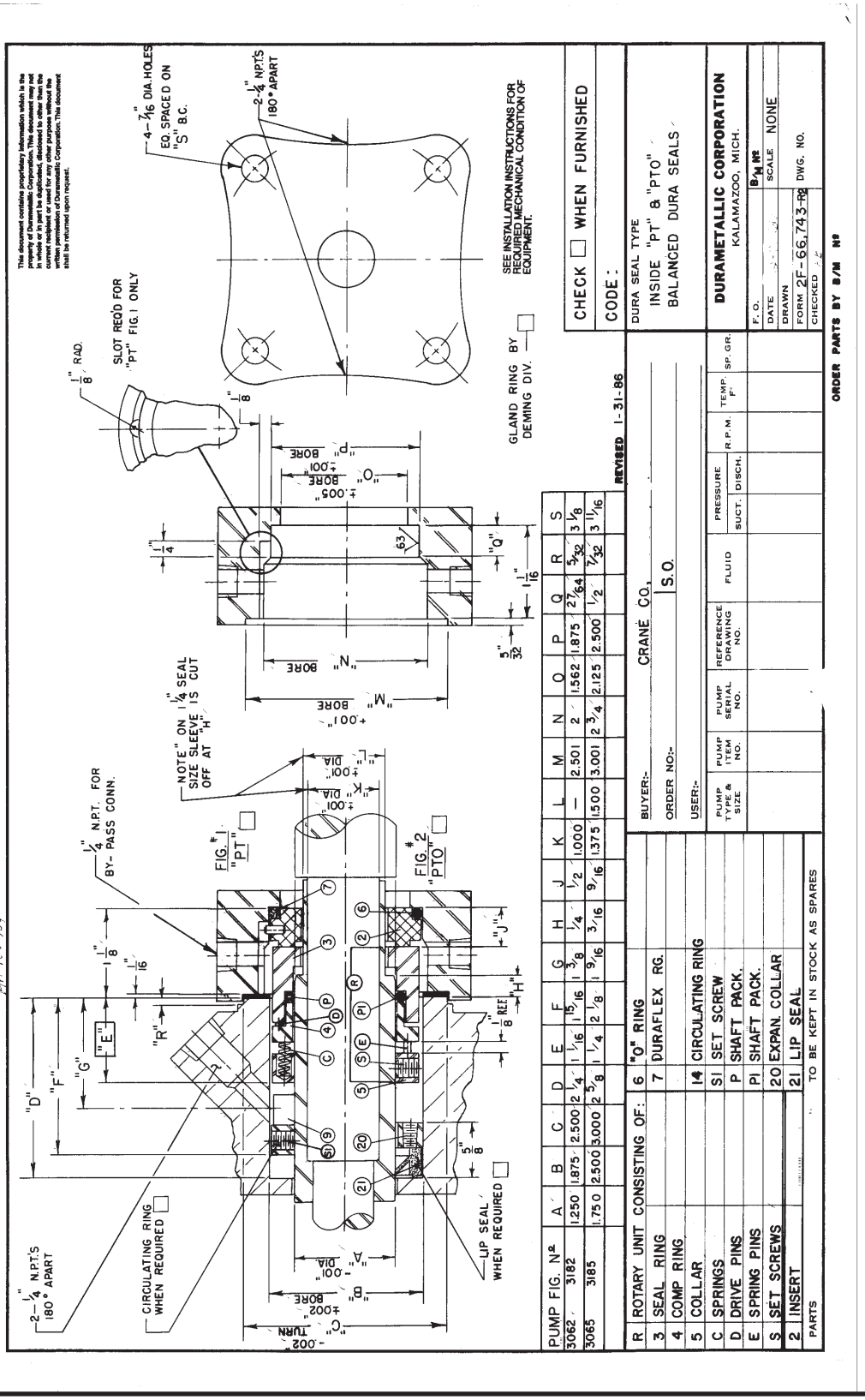


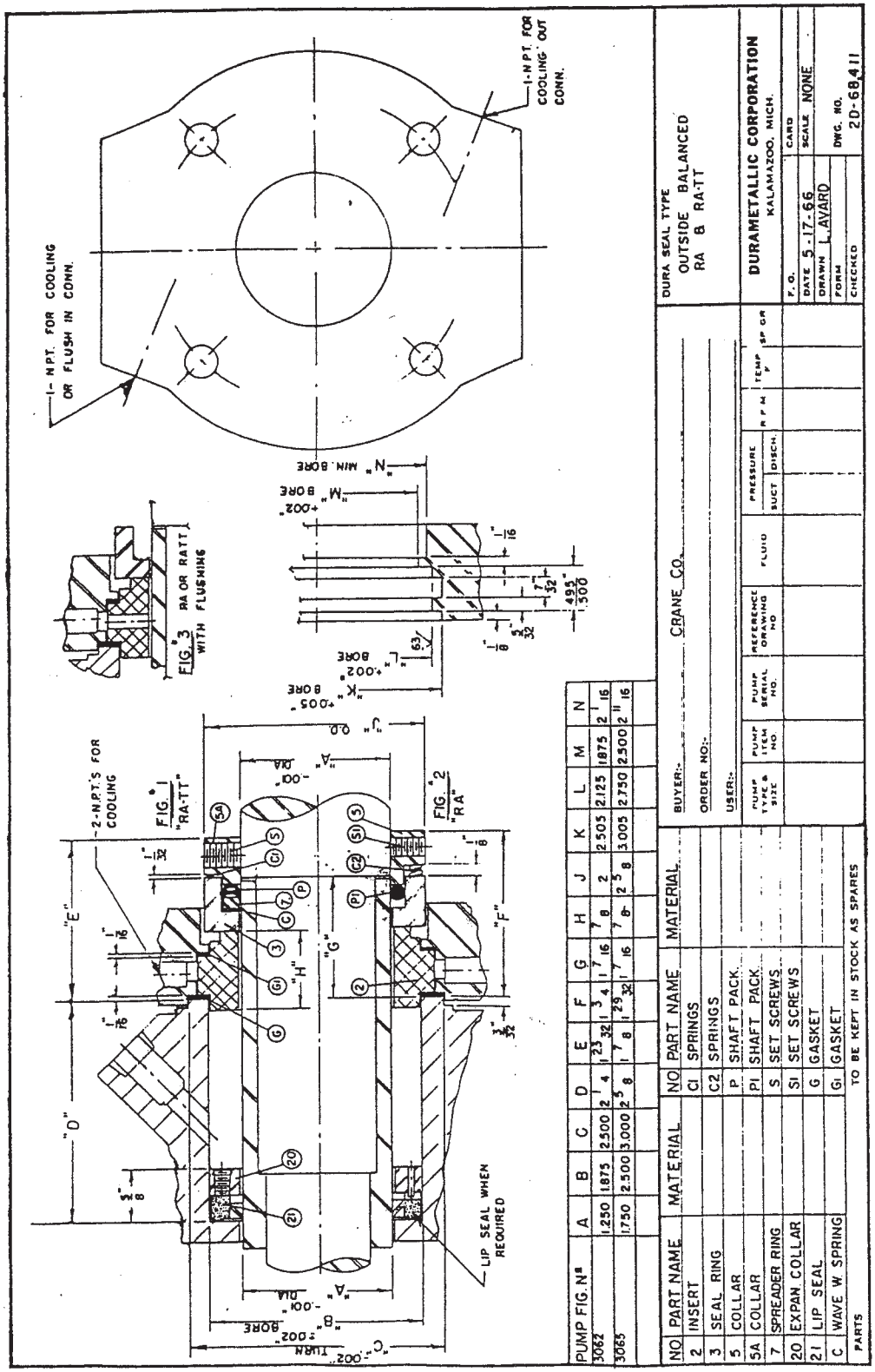
PUMP FIG. Nº.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
3062 3182	1.250	1.875	2.500	2 1/4	2 3/32	1 15/16	1 3/8	27/64	2.501	2	1.562	1.875	5/8	15/32	1 1/16	1/8	1 1/8	5/32	3 1/8
3065 3185	1.750	2.500	3.000	2 5/8	2 9/32	2 1/8	1 9/16	1/2	3.001	2 3/4	2.125	2.500	5/8	17/32	1 1/16	1/8	1 1/8	7/32	3 1/16
4066 3186	2.125	3.000	3.875	3 1/16	1 13/32	2 3/8	1 13/16	1/2	3.880	3 1/8	2.500	3.000	11/16	23/32	1	1/4	1 1/16	7/32	4 5/8

R	ROTARY UNIT CONSISTING OF	2 INSERT
3	SEAL RING	6 "O" RING
4	COMP. RING	7 DURAFLEX RING
5	COLLAR	
45	COMP. UNIT	9 CIRCULATING RING
C	SPRINGS	20 EXPAN. COLLAR
D	DRIVE PINS	21 LIP SEAL
E	SPRING PINS	P SHAFT PACK.
S	SET SCREWS	P1 SHAFT PACK.
PARTS	TO BE KEPT IN STOCK AS SPARES	

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Chemical & Process ANSI Pumps





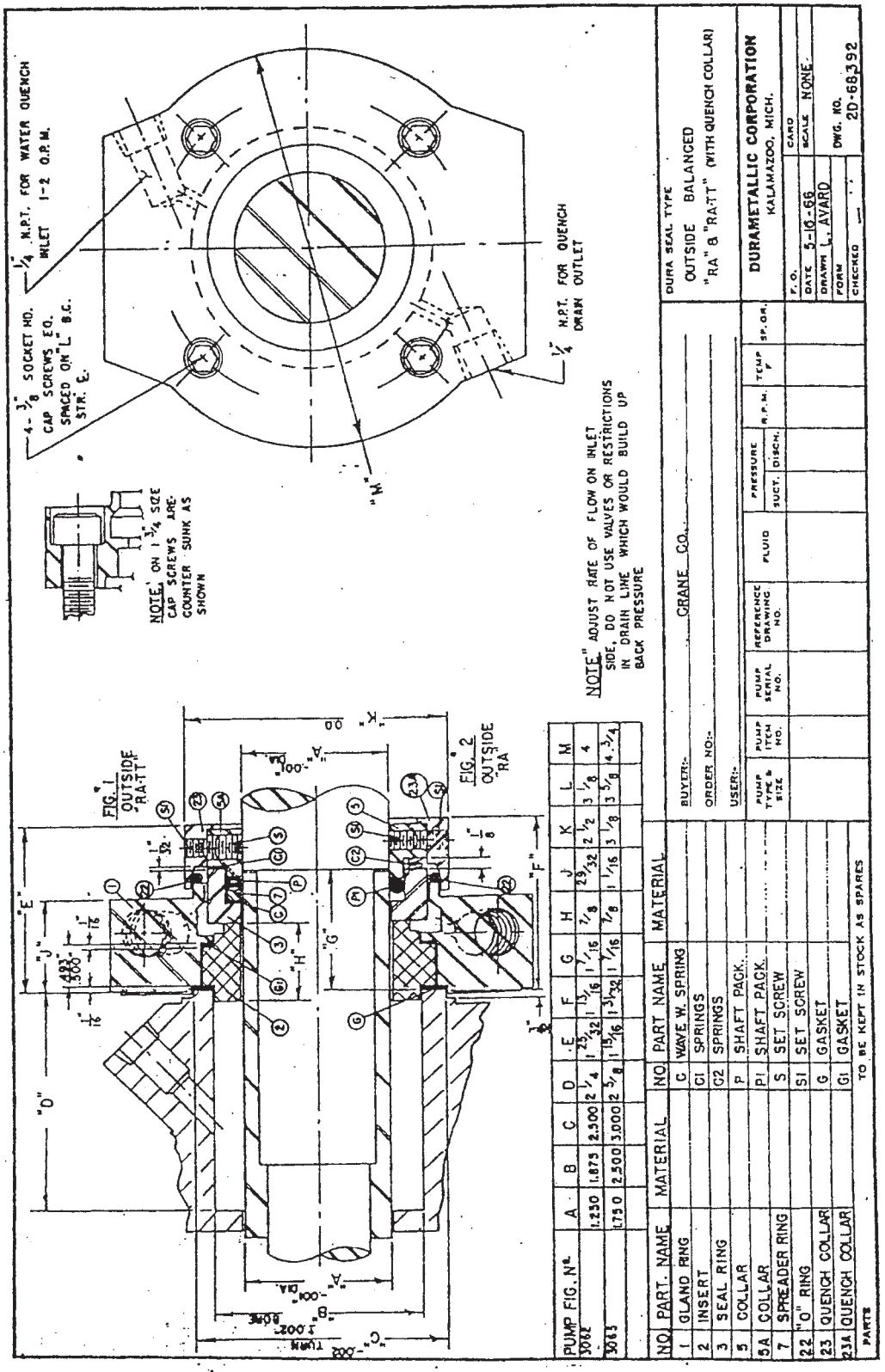
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2	INSERT	
3	SEAL RING	
5	COLLAR	
5A	COLLAR	
7	SPREADER RING	
20	EXPAN COLLAR	
21	LIP SEAL	
C	WAVE W SPRING	

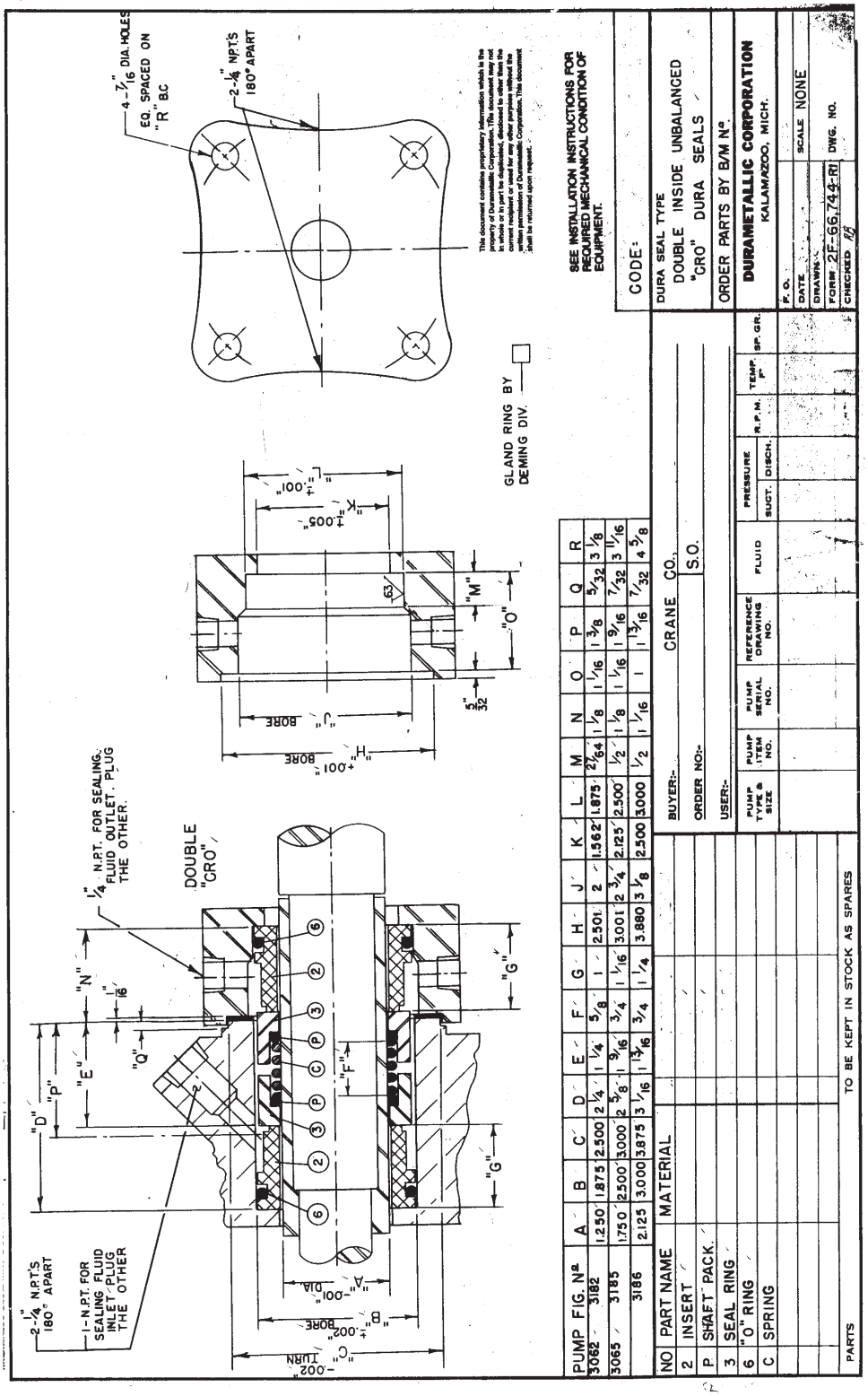
NO	PART NAME	MATERIAL
C1	SPRINGS	
C2	SPRINGS	
P	SHAFT PACK.	
P1	SHAFT PACK.	
S	SET SCREWS	
S1	SET SCREWS	
G	GASKET	
G1	GASKET	

PUMP FIG. Nº	A	B	C	D	E	F	G	H	J	K	L	M	N
3062	1.250	1.875	2.500	2 1/4	1 23/32	3 1/4	1 7/16	1 7/8	2	2.505	2.125	1.875	2 1/16
3085	1.750	2.500	3.000	2 5/8	1 7/8	1 29/32	1 7/16	1 7/8	2 5/8	3.005	2.750	2.500	2 11/16

PUMP TYPE & SIZE	PUMP ITEM NO.	PUMP SERIAL NO.	REFERENCE DRAWING NO.	FLUID	PRESSURE SUCT.	PRESSURE DISCH.	R P M	TEMP °F	SP GR

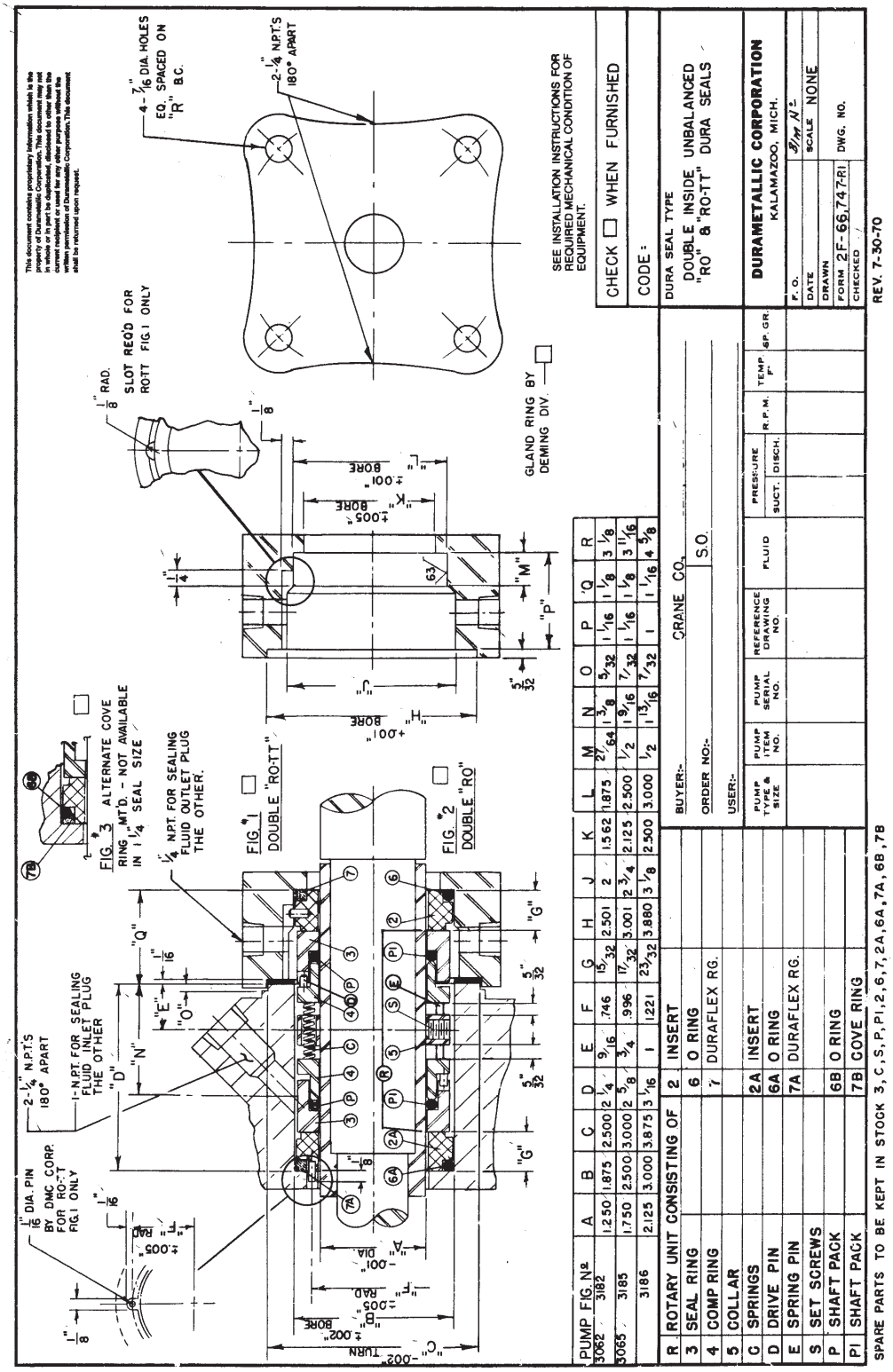
Chemical & Process ANSI Pumps





PUMP FIG. Nº	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
3062 3182	1.250	1.875	2.500	2 1/4	1 1/4	5/8	1	2.501	2	1.562	1.875	27/64	1 1/8	1 1/16	1 3/8	5/32	3 1/8
3065 3185	1.750	2.500	3.000	2 5/8	1 9/16	3/4	1 1/16	3.001	2 3/4	2.125	2.500	1/2	1 1/8	1 1/16	1 9/16	7/32	3 11/16
3186	2.125	3.000	3.875	3 1/16	1 13/16	3/4	1 1/4	3.880	3 1/8	2.500	3.000	1/2	1 1/16	1	1 13/16	7/32	4 5/8

Chemical & Process ANSI Pumps



PUMP FIG. Nº	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
3062 3182	1.250	1.875	2.500	2 1/4	9/16	.746	15/32	2.501	2	1.562	1.875	27/64	1 3/8	5/32	1 1/16	1 1/8	3 1/8
3065 3185	1.750	2.500	3.000	2 5/8	3/4	.996	17/32	3.001	2 3/4	2.125	2.500	1/2	1 9/16	7/32	1 1/16	1 1/8	3 11/16
3186	2.125	3.000	3.875	3 1/16	1	1.221	23/32	3.880	3 1/8	2.500	3.000	1/2	1 13/16	7/32	1	1 1/16	4 5/8

R	ROTARY UNIT CONSISTING OF	2	INSERT
3	SEAL RING	6	O RING
4	COMP RING	7	DURAFLEX RG.
5	COLLAR		
C	SPRINGS	2A	INSERT
D	DRIVE PIN	6A	O RING
E	SPRING PIN	7A	DURAFLEX RG.
S	SET SCREWS		
P	SHAFT PACK	6B	O RING
P1	SHAFT PACK	7B	COVE RING

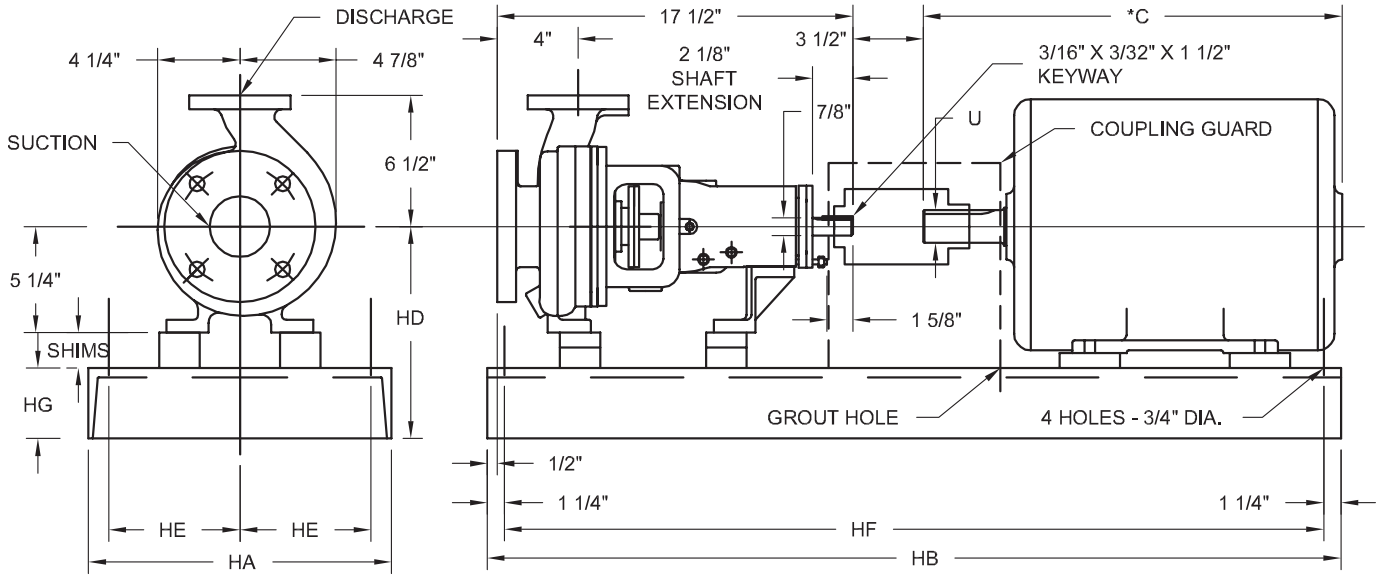
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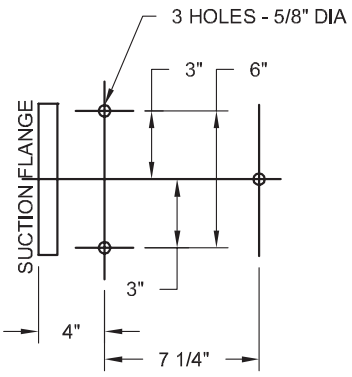
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Fig. 3062

Pumps with Steel Base, Spacer Coupling & Motor
AA6, AB6, AA8, AB8 - Bulletin 3060

Chemical & Process ANSI Pumps





PUMP MOUNTING HOLES

SIZE	SUCT	DISCH	A	B	MAX IMP DIA	150# FLANGE DRILLING						300# FLANGE DRILLING						* WT IN LBS
						SUCTION			DISCHARGE			SUCTION			DISCHARGE			
						NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	
AA6	1½	1	4¼	4⅞	6	4	⅝	3⅞	4	⅝	3⅛	4	⅞	4½	4	¾	3½	70
AB6	3	1½	4¼	4⅞	6	4	¾	6	4	⅝	3⅞	8	⅞	6⅝	4	⅞	4½	74
AA8	1½	1	5	5¼	8	4	⅝	3⅞	4	⅝	3⅛	4	⅞	4½	4	¾	3½	70
AB8	3	1½	5	5¼	8	4	¾	6	4	⅝	3⅞	8	⅞	6⅝	4	⅞	4½	74

(*) Weight is based on 150# casing.
Flange thickness per ASA Std B16, 5-1957, Flat Face.

MOTOR FRAME	56	143T	145T	182	182T	184	184T	213	213T	215	215T	254U	254T	256U	256T	284U	284T	284TS	286U	286T	286TS
BASE NO.	1							2				3									
C	9 - 14	13⅛	13⅛	14¼	14⅝	15¼	15⅝	17½	17¾	19	19¼	22⅝	22⅞	24⅜	24⅝	26⅛	25⅞	24½	27⅝	27⅜	26
U	⅝	⅞	⅞	⅞	1⅛	⅞	1⅛	1⅛	1⅜	1⅛	1⅜	1⅜	1⅝	1⅜	1⅝	1⅝	1⅞	1⅝	1⅝	1⅞	1⅝
HA	10							12				15									
HB	35							39				52									
HD	8¼							8½				10½				10½ (was 11⅜)					
HE	4							4½				6									
HF	32½							36½				49½									
HG	2⅞ (was 3)							3 3/16 (was 3¼)				3½									
** WT	134	134	134	154	154	168	168	272	272	297	297	462	462	512	512	569	569	569	629	629	629

(**) WT includes Base, Coupling & Enclosed Motors.

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

Fig. 3062

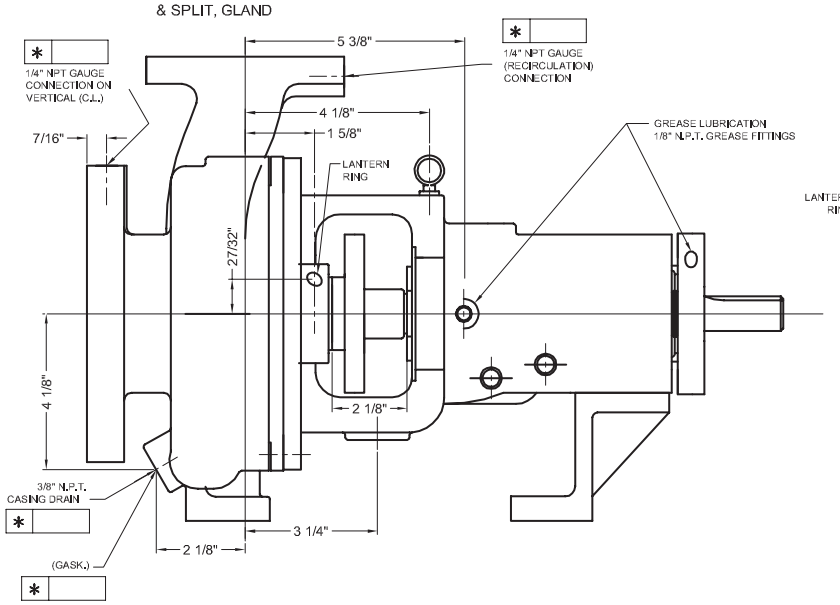
Basic Pump Standard and Optional Equipment
AA6, AB6, AA8, AB8 - Bulletin 3060

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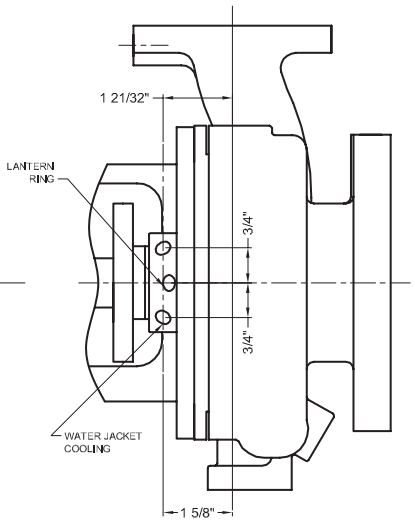
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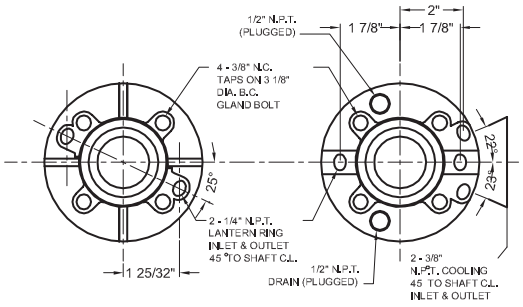
Chemical & Process ANSI Pumps

PUMP WITH NORMAL PACKING BOX & SPLIT, GLAND



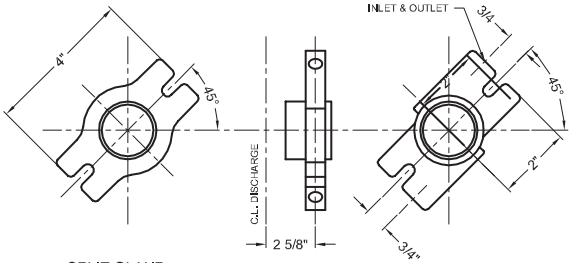
PUMP WITH WATER JACKETED PACKING BOX & SPLIT, GLAND





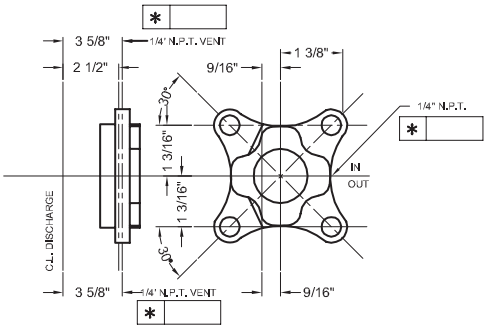
STANDARD PACKING BOX

WATER JACKETED PACKING BOX



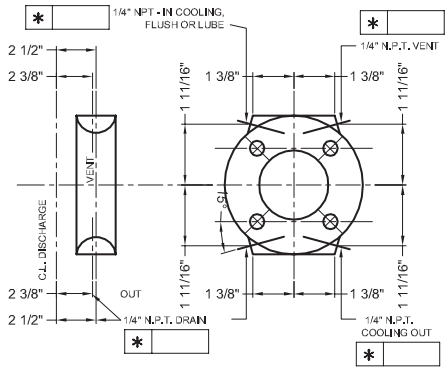
SPLIT GLAND

SNUFFING GLAND



SEAL GLAND ("O" RING SEAT)

NOTE: FURNISHED IF CHECKED



SEAL GLAND (CLAMPED SEAT)

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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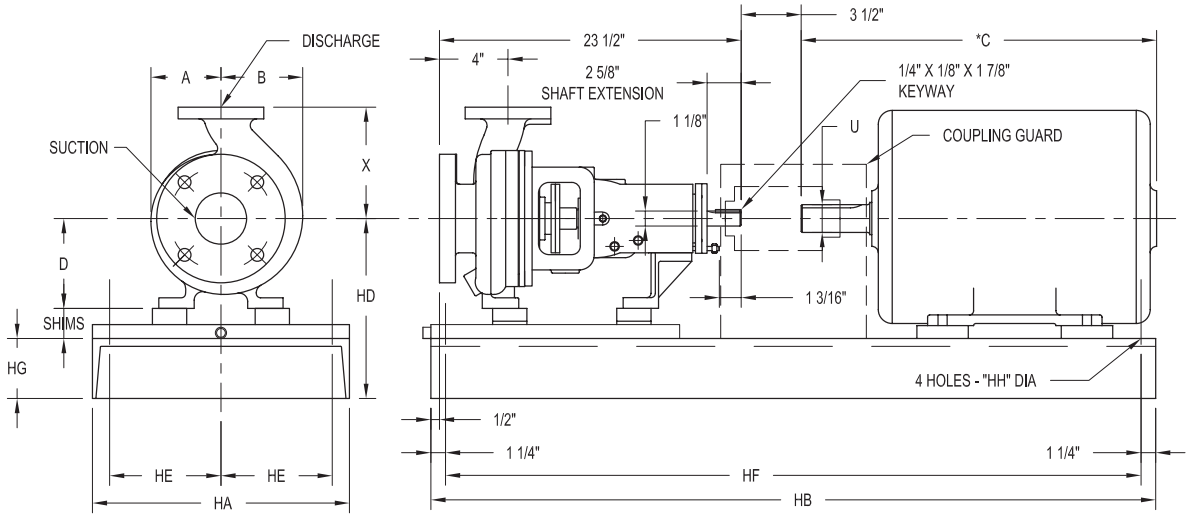
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Fig. 3065

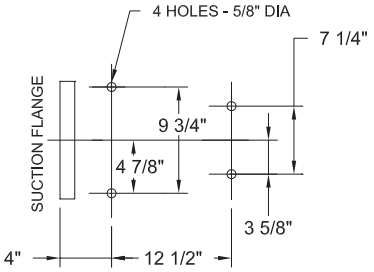
Pumps with Steel Base, Spacer Coupling & Motor
A05, A10, A50, A60, A70, A20, A30, A40, A80 - Bulletin 3060

Chemical & Process ANSI Pumps



SIZE	SUCT	DISCH	A	B	D	X	MAX IMP DIA	150# FLANGE DRILLING						300# FLANGE DRILLING						* WT IN LBS
								SUCTION			DISCHARGE			SUCTION			DISCHARGE			
								NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	
A05	2	1	6 3/16	6 13/16	8¼	8½	9½	4	¾	4¾	4	⅝	3⅛	8	⅞	5⅛	4	¾	3½	150
A10	3	2	5	5 11/16		8¼	7¼	4		6		¾	4¾			6⅝	8	¾	5	160
A50	3	1½	6 3/16	6 13/16		8½	9½	4		6		⅝	3⅞			6⅝	4	⅞	4½	175
A60	3	2	6 3/16	6 13/16		9½	9½	4		6		¾	4¾			6⅝	8	¾	5	185
A70	4	3	6½	7½		11	9½	8		7½		¾	6			7⅛	8	⅞	6⅝	200
A20	3	1½	7 3/16	8¼	10	10½	12	4	¾	6	4	⅝	3⅞	8	⅞	6⅝	4	⅞	4½	200
A30	3	2	7 3/16	8¼		11½		4		6		¾	4¾			6⅝	8	¾	5	220
A40	4	3	7⅛	8 15/16		12½		8		7½		¾	6			7⅛	8	⅞	6⅝	240
A80	6	4	8 11/32	9 15/32		13½		8	⅞	9½	8	¾	7½	12		10⅝	8	⅞	7⅛	280

(*) Weight is based on 150# casing. Flange thickness per ASA Std B16, 5-1957, Flat Face.



PUMP MOUNTING HOLES

MOTOR FRAME	C	U	BASE NO	HA	HB	HD		HE	HF	HG	HH	* WT	MOTOR FRAME	C	U
						A10-05-50-60-70	A20-30-40-80								
143T	13⅛	⅞	4	12	45	12	13¾	4½	42½	3 3/16	¾	226	182	14¼	⅞
145T	13⅛											226	184	15¼	
182T	14¼	1⅛										310	213	17½	1⅛
184T	15⅝											310	215	19	
213T	17¾	1⅜										340			
215T	19¼											340			
254T	22⅞	1⅝	5	15	52	12⅜	14⅛	6	49½	3½	¾	527	254U	22⅝	1⅜
256T	24⅝											527	256U	24⅜	
284T	25⅞	1⅞										582	284U	26⅛	1⅝
284TS	24½	1⅝										582	286U	27⅝	
286T	27⅝	1⅞										643			
286TS	26	1⅝										643			
324T	28¾	2⅛	6	18	58	13	14¾	7½	55½	4	1	834	324U	29⅛	1⅞
324TS	27¼	1⅞										834	324S	26¾	1⅝
326T	30¼	2⅛										899	326U	30⅝	1⅞
326TS	28¾	1⅞										899	326S	28¼	1⅝
364T	33⅛	2⅜										1059	364U	33⅝	2⅛
364TS	31	1⅞				14						1059	364US	31	1⅞
365TS	32	1⅞										1124	365U	34⅝	2⅛
												1124	365US	32	1⅞
404TS	34¼	2⅛	7	18	60	15		7½	57½	4	1	1454	404US	34¼	2⅛
405TS	36	2⅛										1454	405US	36	
						16						1904	444US	38⅝	
												1904	445US	40⅝	

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

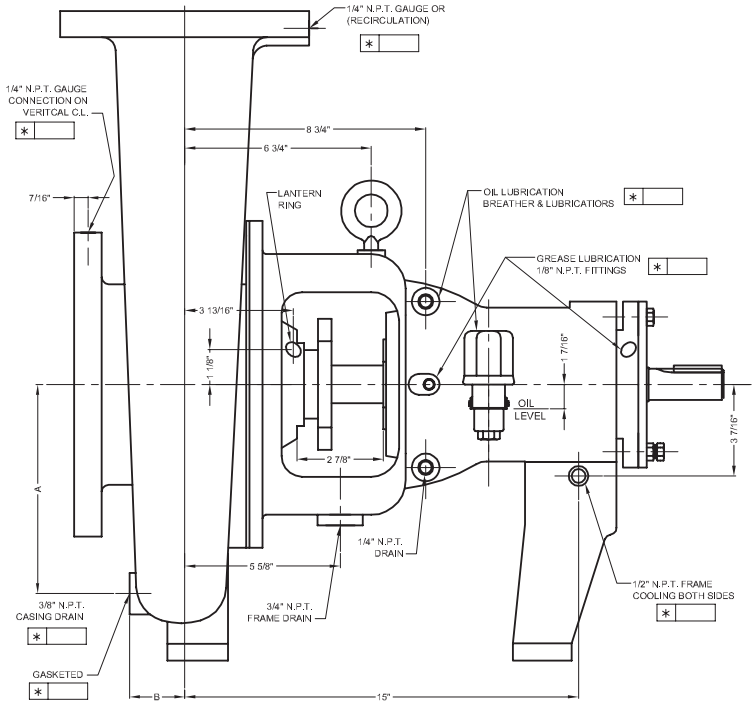
Fig. 3065

Basic Pump Standard and Optional Equipment
A05, A10, A50, A60, A70, A20, A30, A40, A80 - Bulletin 3060

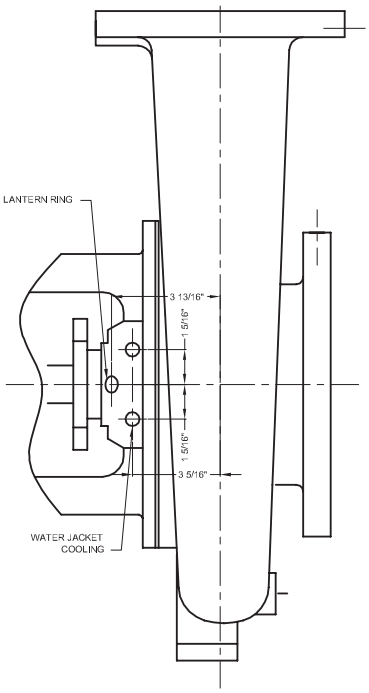
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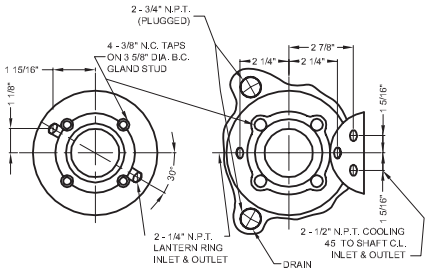
PUMP WITH NORMAL PACKING BOX & SPLIT, GLAND



PUMP WITH WATER JACKETED PACKING BOX & SPLIT, GLAND

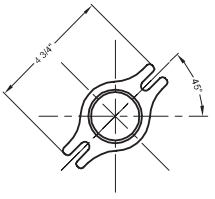


SIZE	A	B
A05	5-7/16"	7/8"
A10	4-1/2"	2-1/4"
A50	5-7/16"	1"
A60	5-11/16"	1-1/8"
A70	6-1/16"	1-3/4"
A20	6-5/8"	1-1/8"
A30	7"	1-3/8"
A40	7-7/16"	1-3/4"
A80	7-11/16"	1-7/8"

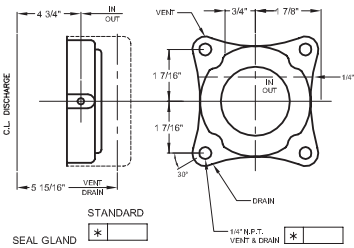


STANDARD PACKING BOX

WATER JACKETED PACKING BOX



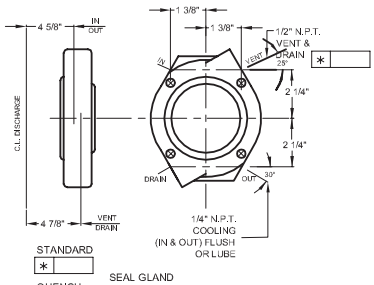
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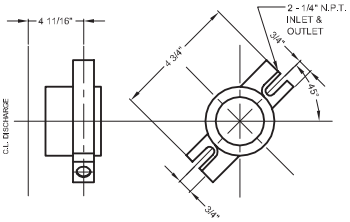
QUENCH



STANDARD

QUENCH

SEAL GLAND CLAMPED SEAT



SNUFFING GLAND

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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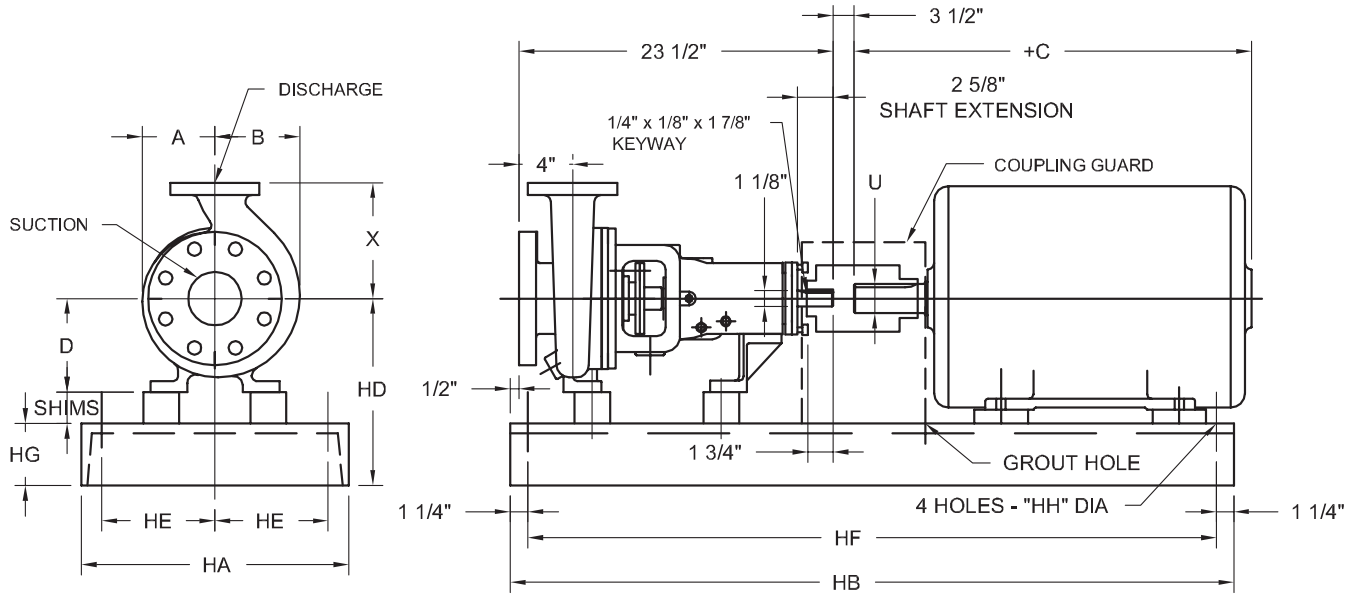
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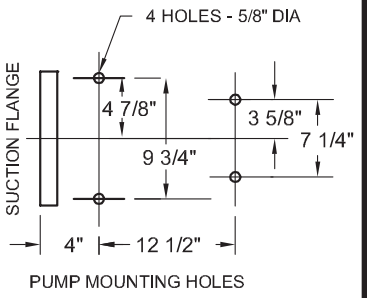
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Fig. 3066

Pumps with Steel Base, Spacer Coupling & Motor
A20, A30 - Bulletin 3060

Chemical & Process ANSI Pumps





SIZE	SUCT	DISCH	A	B	D	X	MAX IMP DIA	150# FLANGE DRILLING						300# FLANGE DRILLING						* WT IN LBS
								SUCTION			DISCHARGE			SUCTION			DISCHARGE			
								NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	NO.	SIZE	B.C.	
A20	3	1½	7 9/16	8¼	10	10½	12	4	¾	6	4	⅝	3⅞	8	⅞	6⅝	4	⅞	4½	200
A30	3	2	7 9/16	8¼		11½		4		6	4	¾	4¾	8	⅞	6⅝	8	¾	5	220

(*) Weight is based on 150# casing. Flange thickness per ASA Std B16, 5-1957, Flat Face.

MOTOR FRAME	C	U	BASE NO	HA	HB	HD A20-30	HE	HF	HG	HH	* WT
284T	25⅞	1⅞	5	15	52	14⅛	6	49½	3½	¾	582
284TS	24½	1⅝									582
286T	27⅝	1⅞									643
286TS	26	1⅝									643
324T	28¾	2⅛	6	18	58	14¾	7½	55½	4	1	834
324TS	27¼	1⅞									834
326T	30¼	2⅛									899
326TS	28¾	1⅞									899
364T	33⅛	2⅜									1059
364TS	31	1⅞									1059
365TS	32	1⅞									1124
404TS	34¼	2⅛	8	18	60	15	7½	57½	4	1	1454
405TS	36	2⅛									1454
444TS	38⅞	2⅜				16					1904
445TS	40⅞	2⅜									1904

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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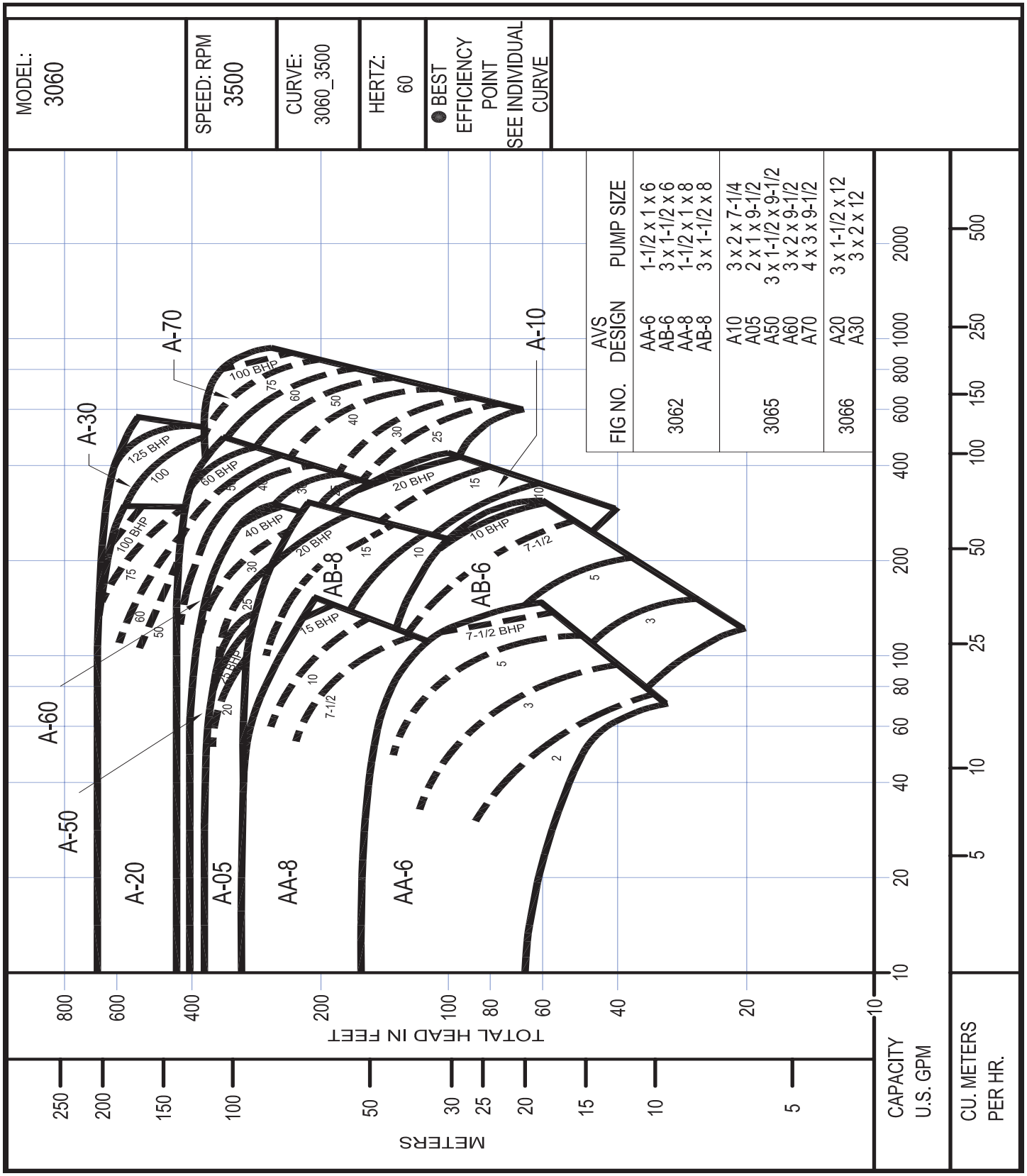


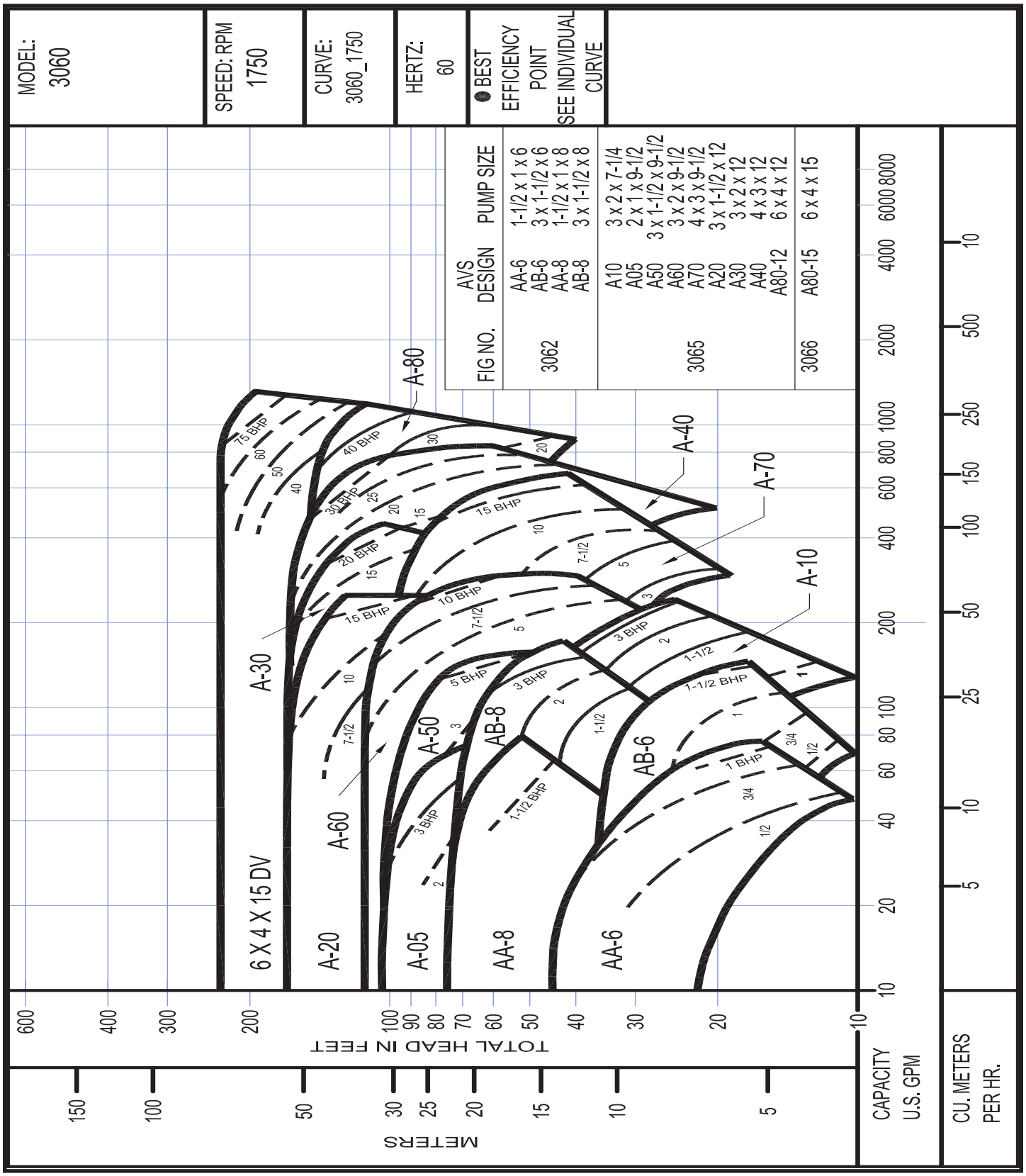
Fig. 3060

Selection Curve, 1750 RPM
Bulletin 3060

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Curves shown performance with liquid having Specific Gravity - 1.0, Viscosity - 30 SSU

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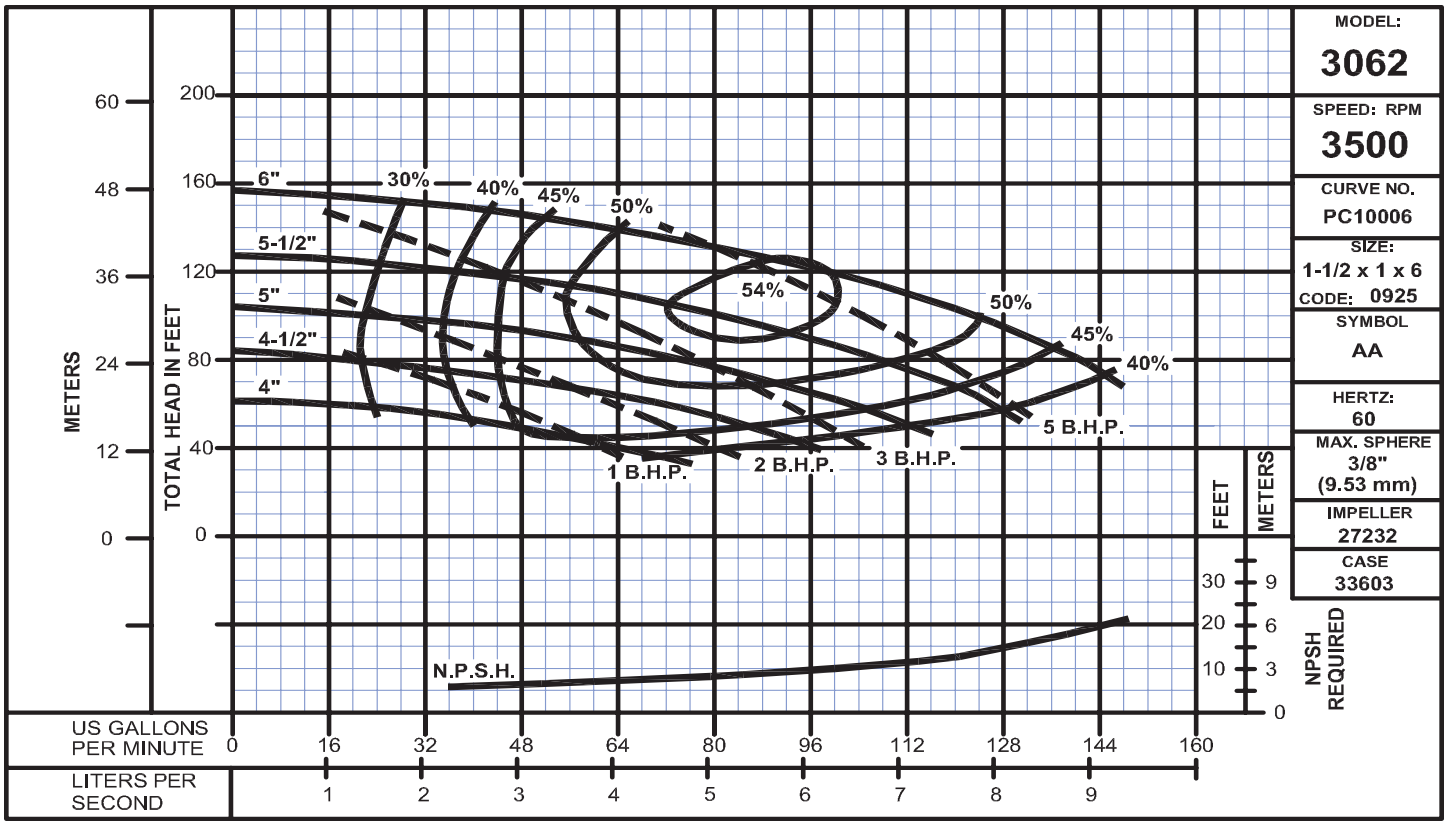
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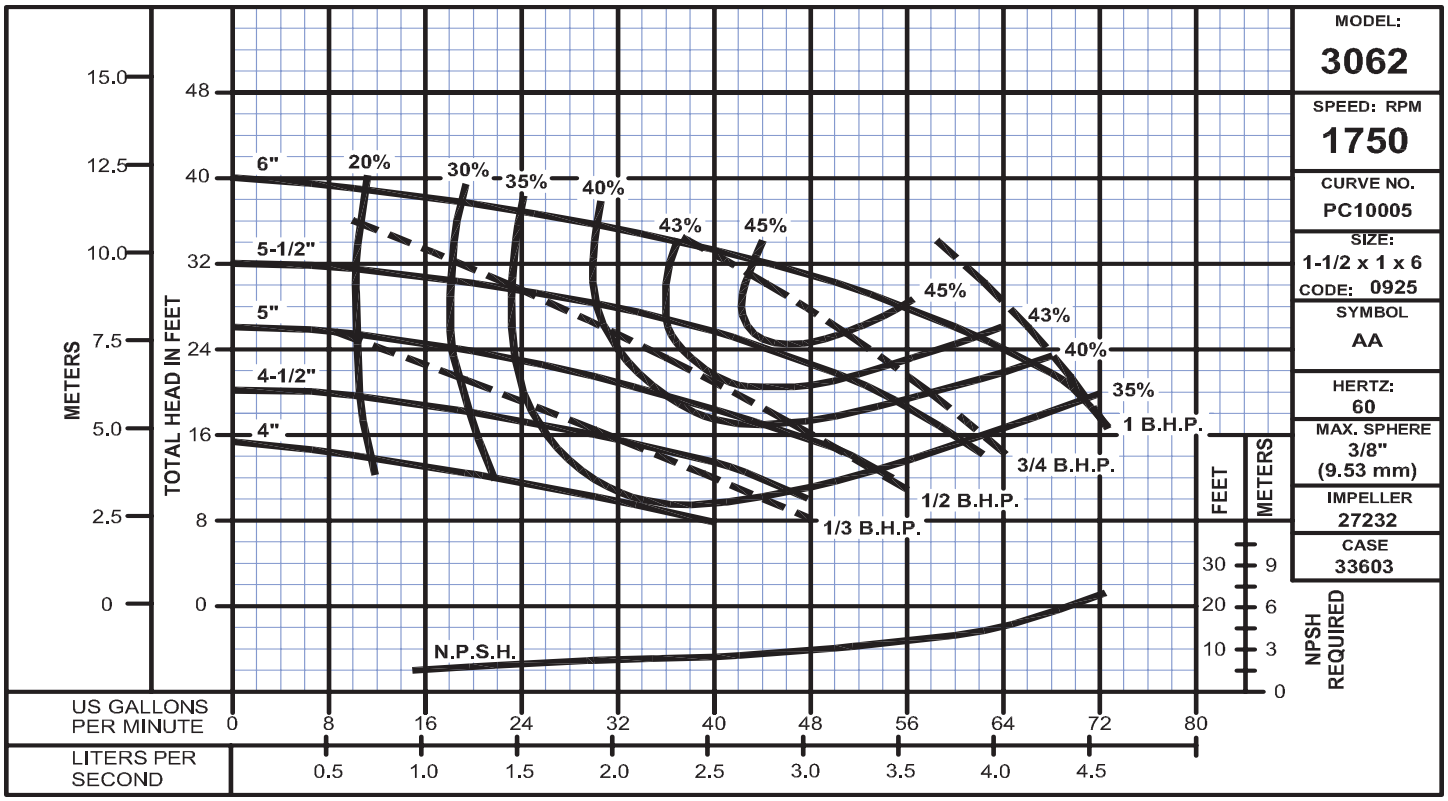
Fig. 3062

Size: 1½ x 1 x 6, AA, 3500 & 1750RPM

Bulletin 3060

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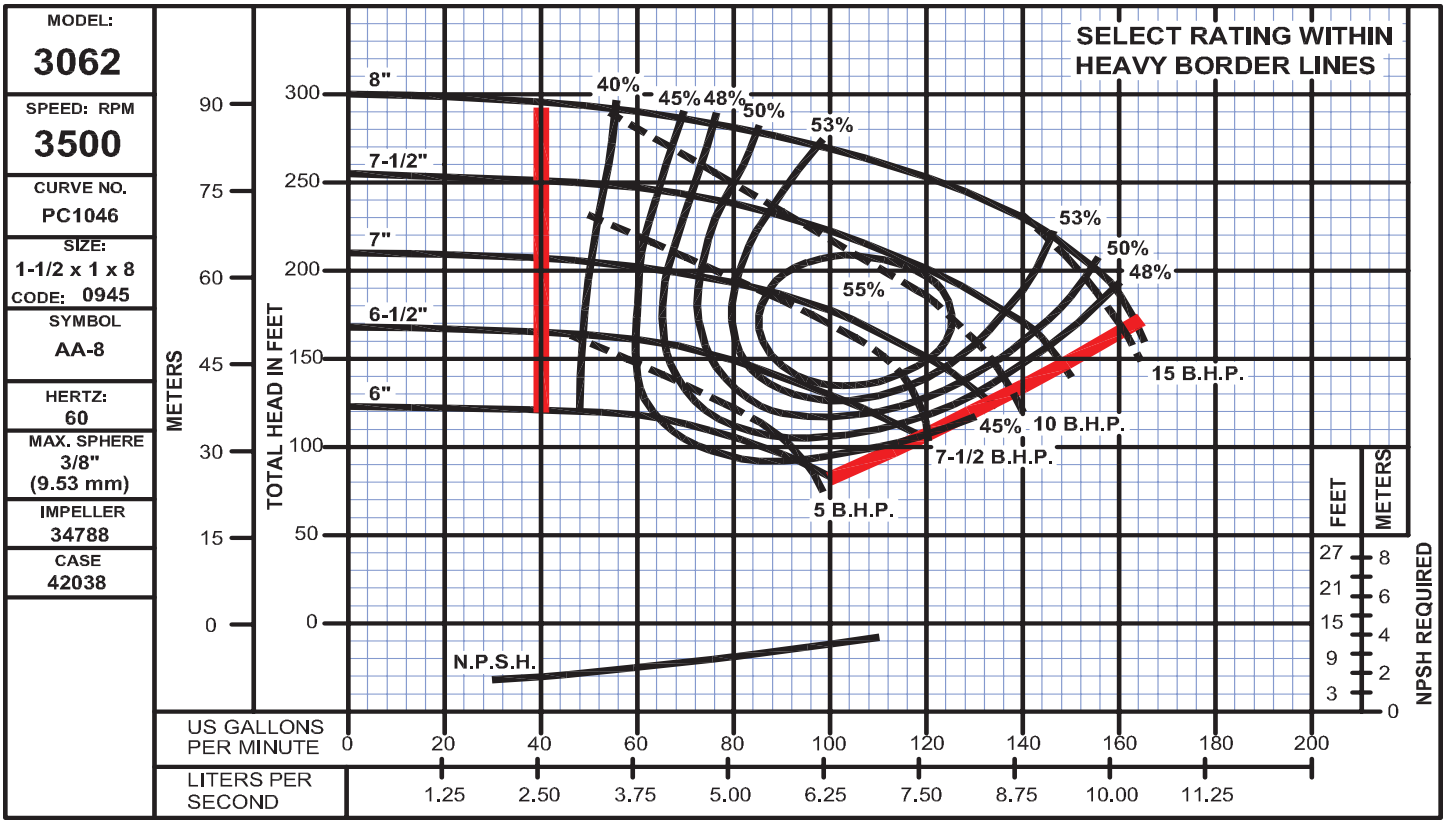
Fig. 3062

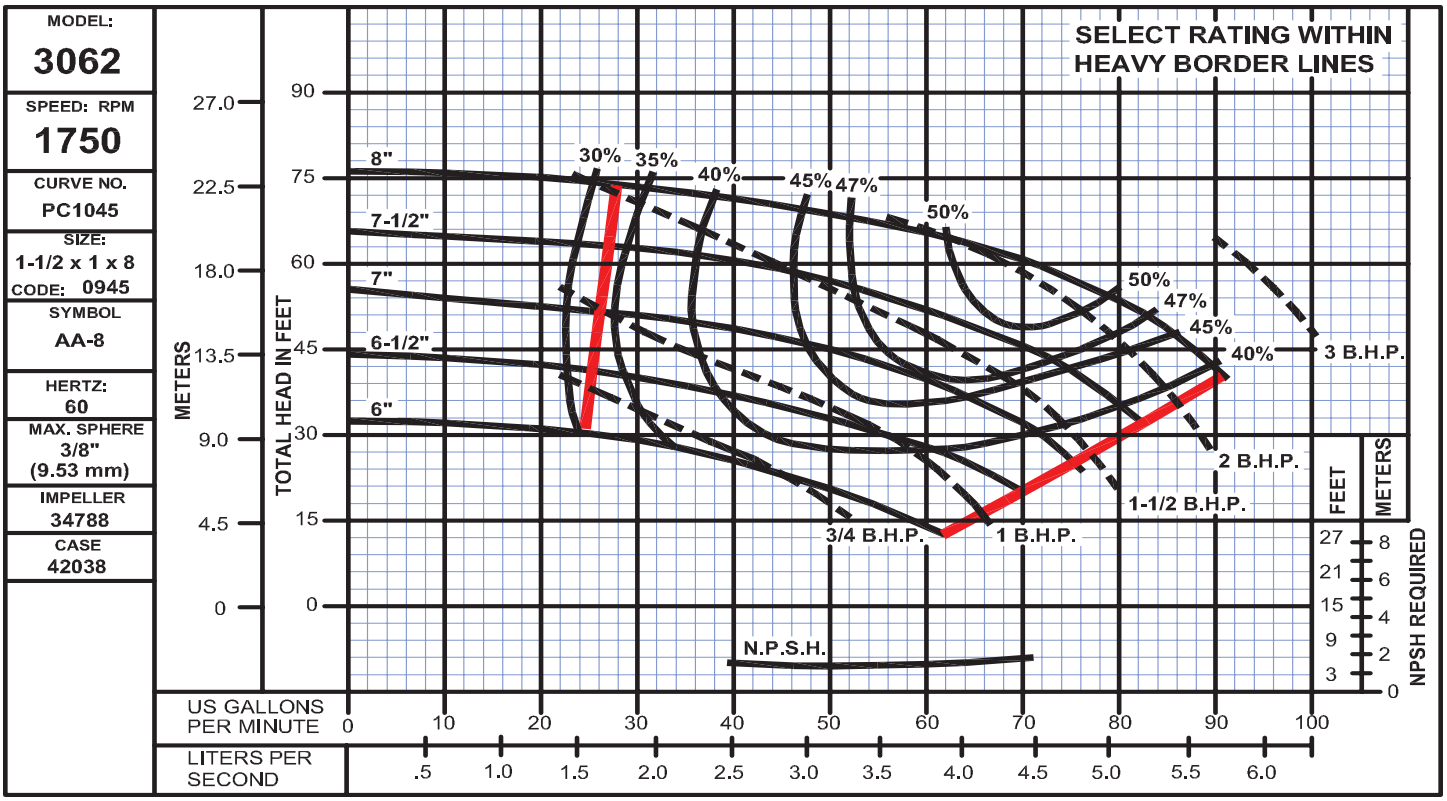
Size: 1½ x 1 x 8, AA-8, 3500 & 1750RPM
Bulletin 3060

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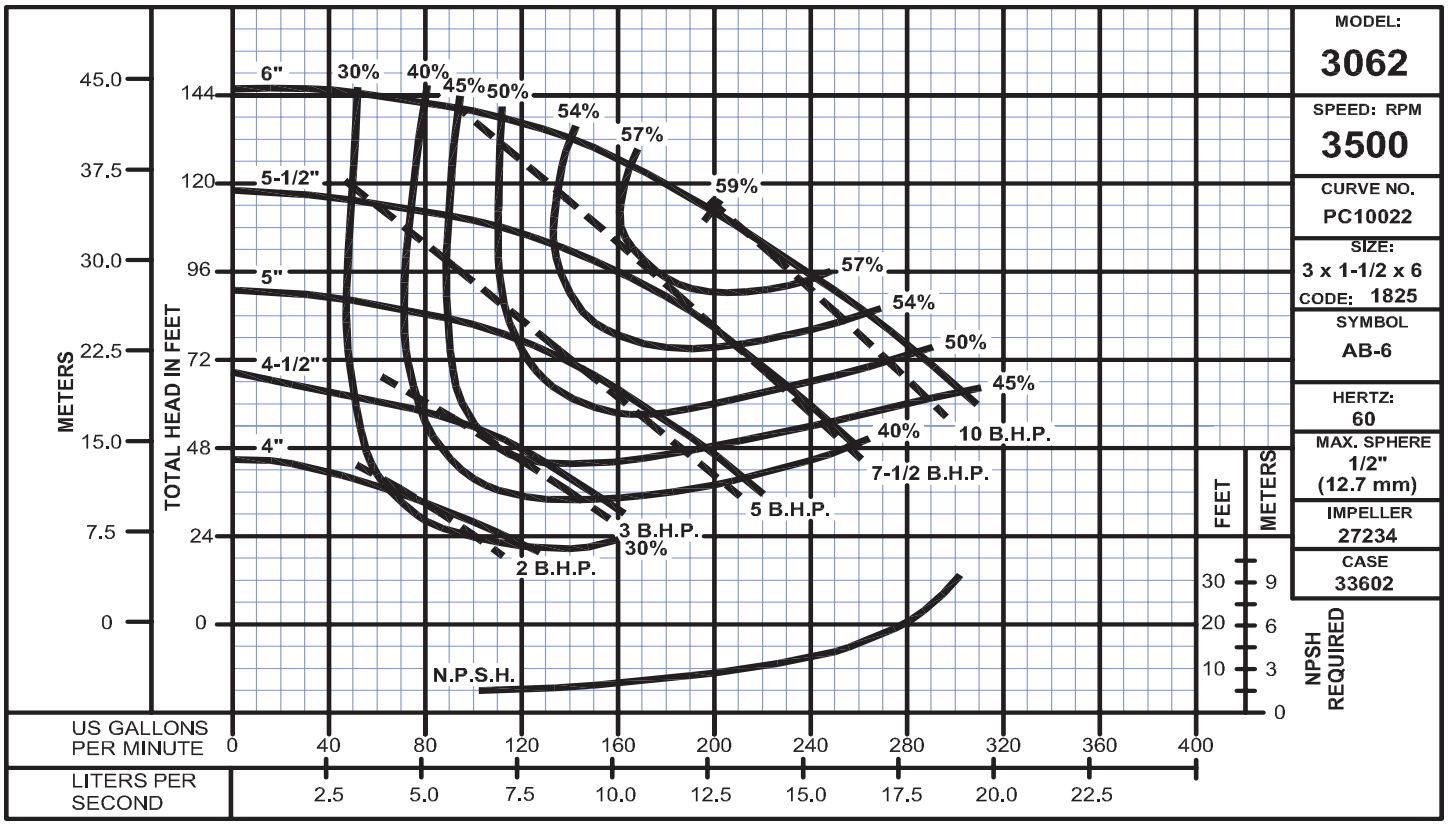
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Fig. 3062

Size: 3 x 1½ x 6, AB-6, 3500 & 1750RPM
Bulletin 3060

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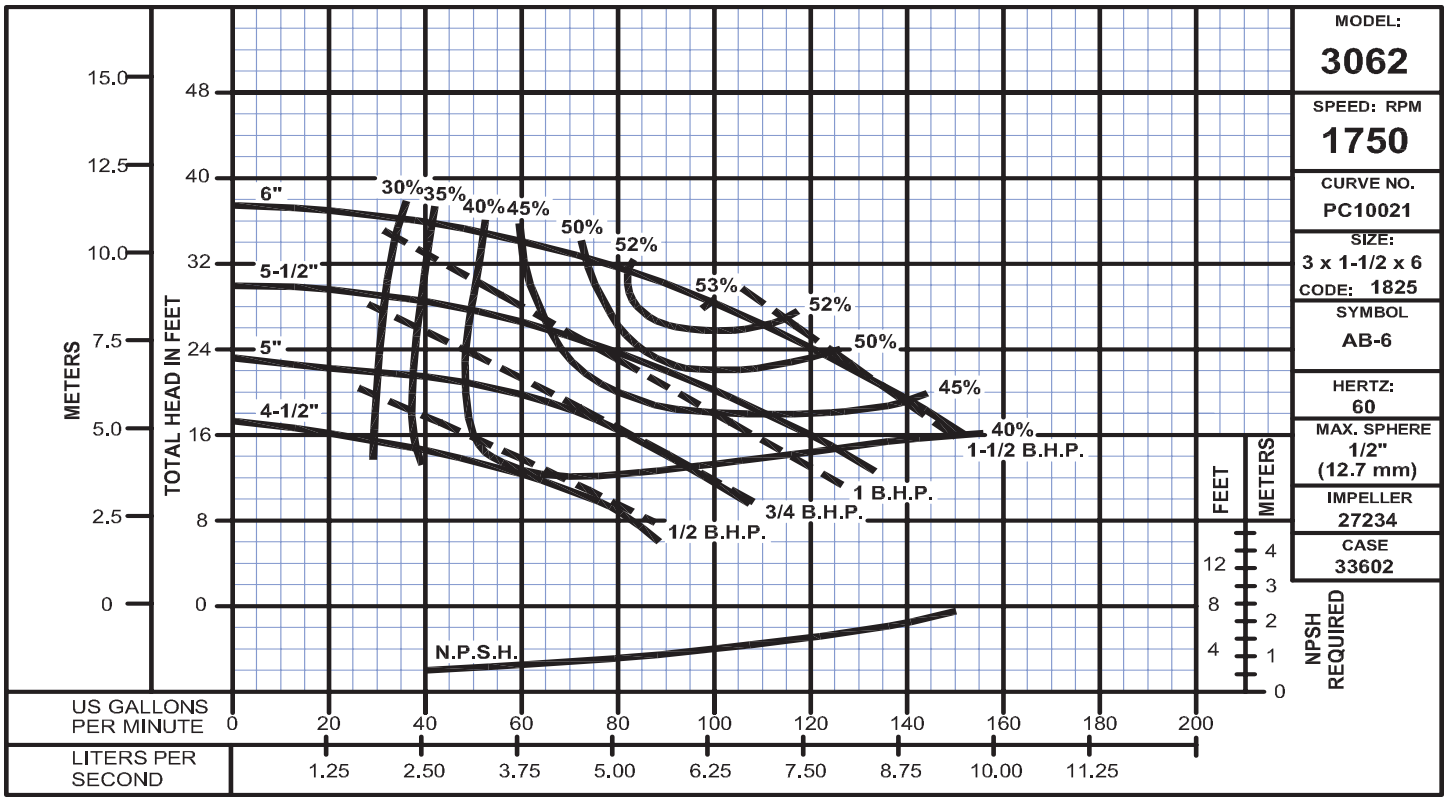
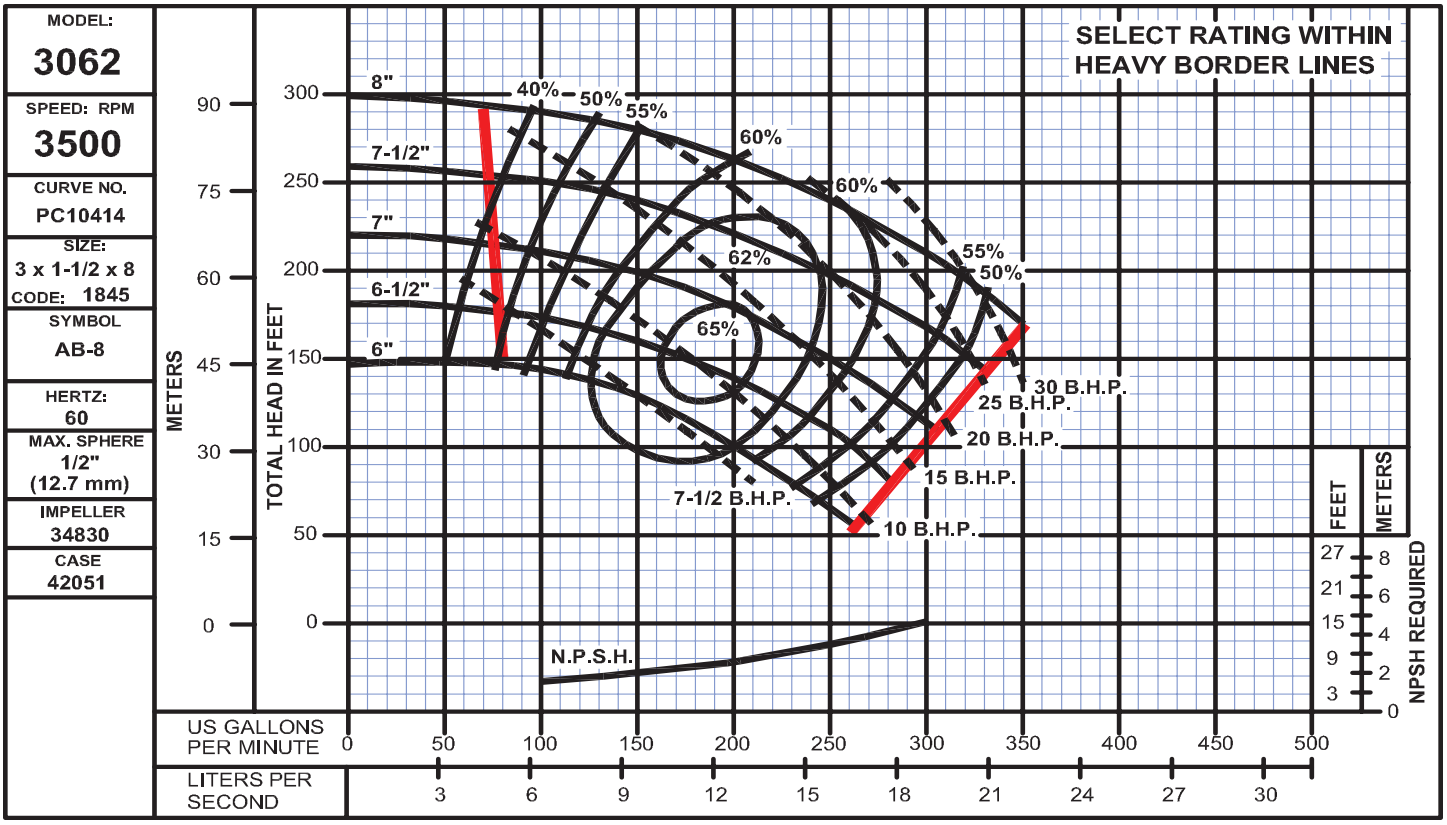


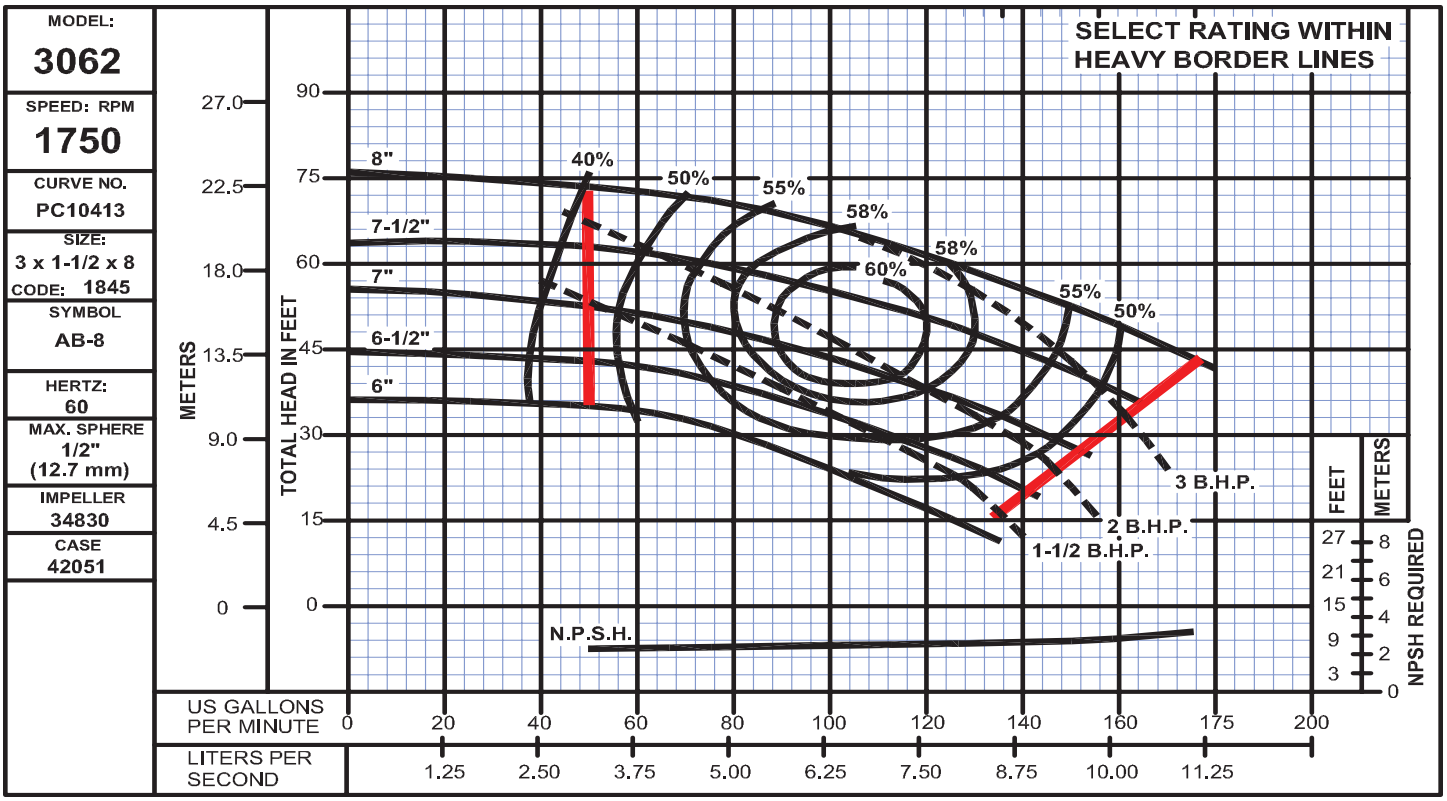
Fig. 3062

Size: 3 x 1½ x 8, AB-8, 3500 & 1750RPM
Bulletin 3060

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Curves shown performance with liquid having Specific Gravity - 1.0, Viscosity - 30 SSU

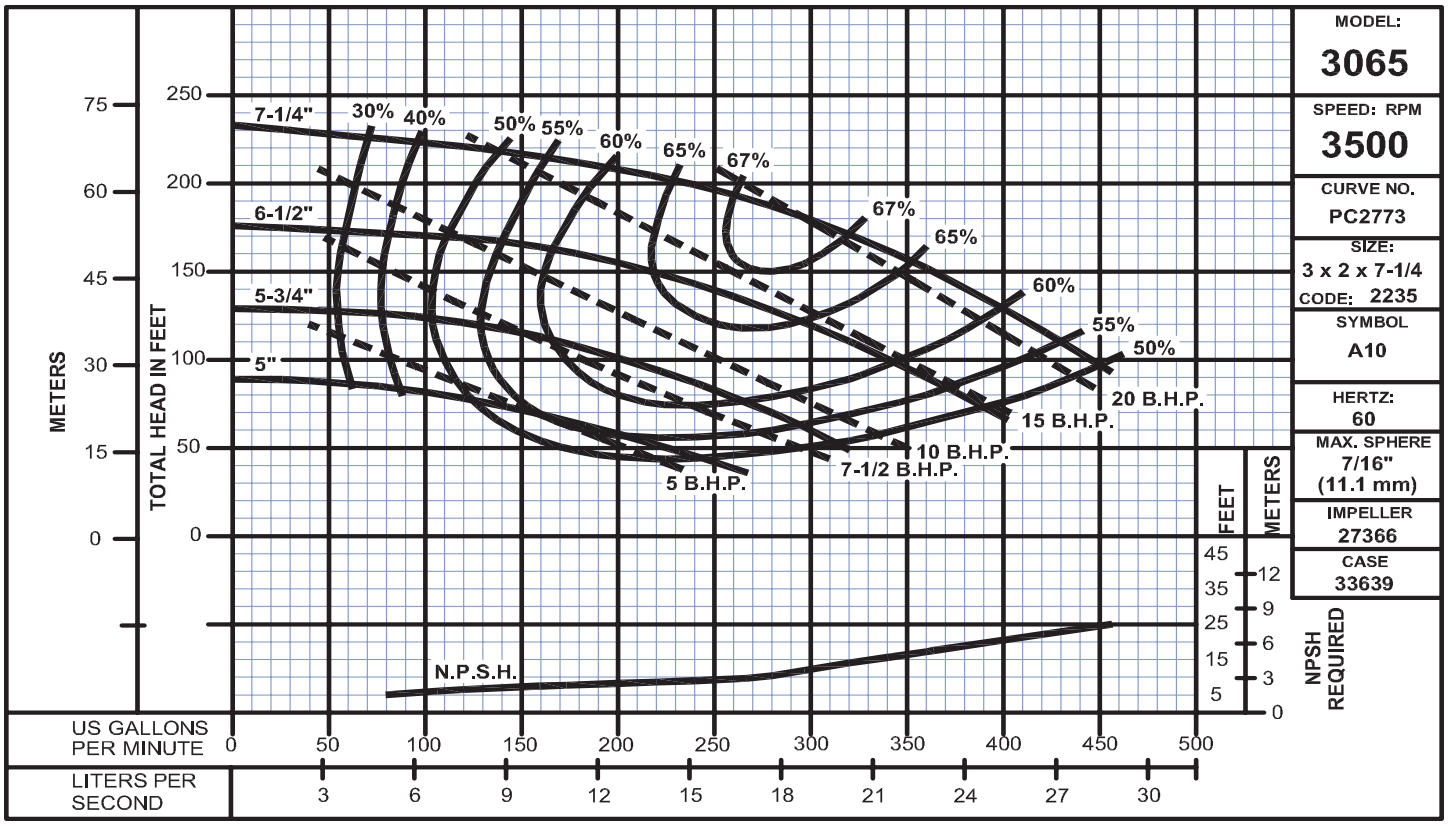
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Fig. 3065

Size: 3 x 2 x 7-1/4, A10, 3500 & 1750RPM
Bulletin 3060

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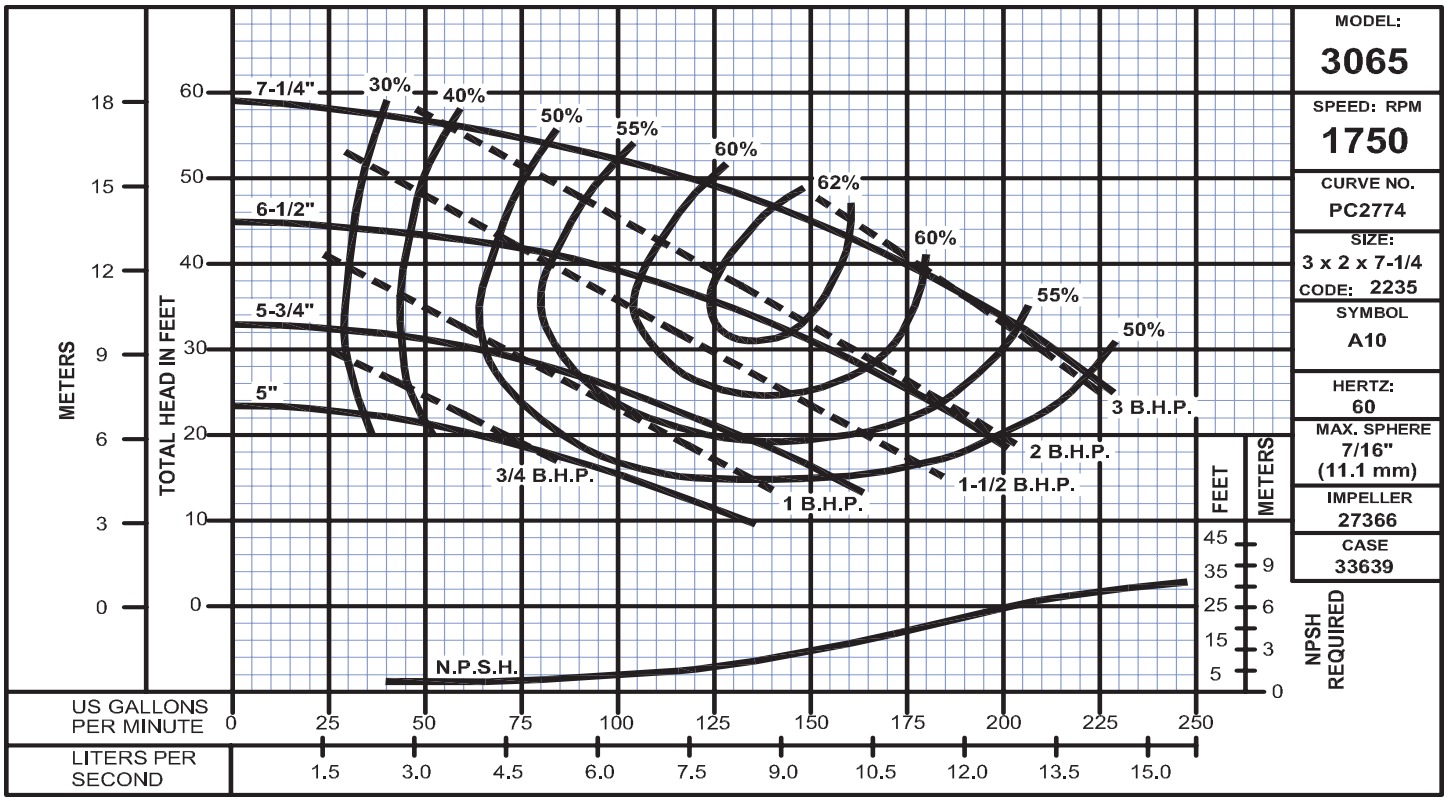
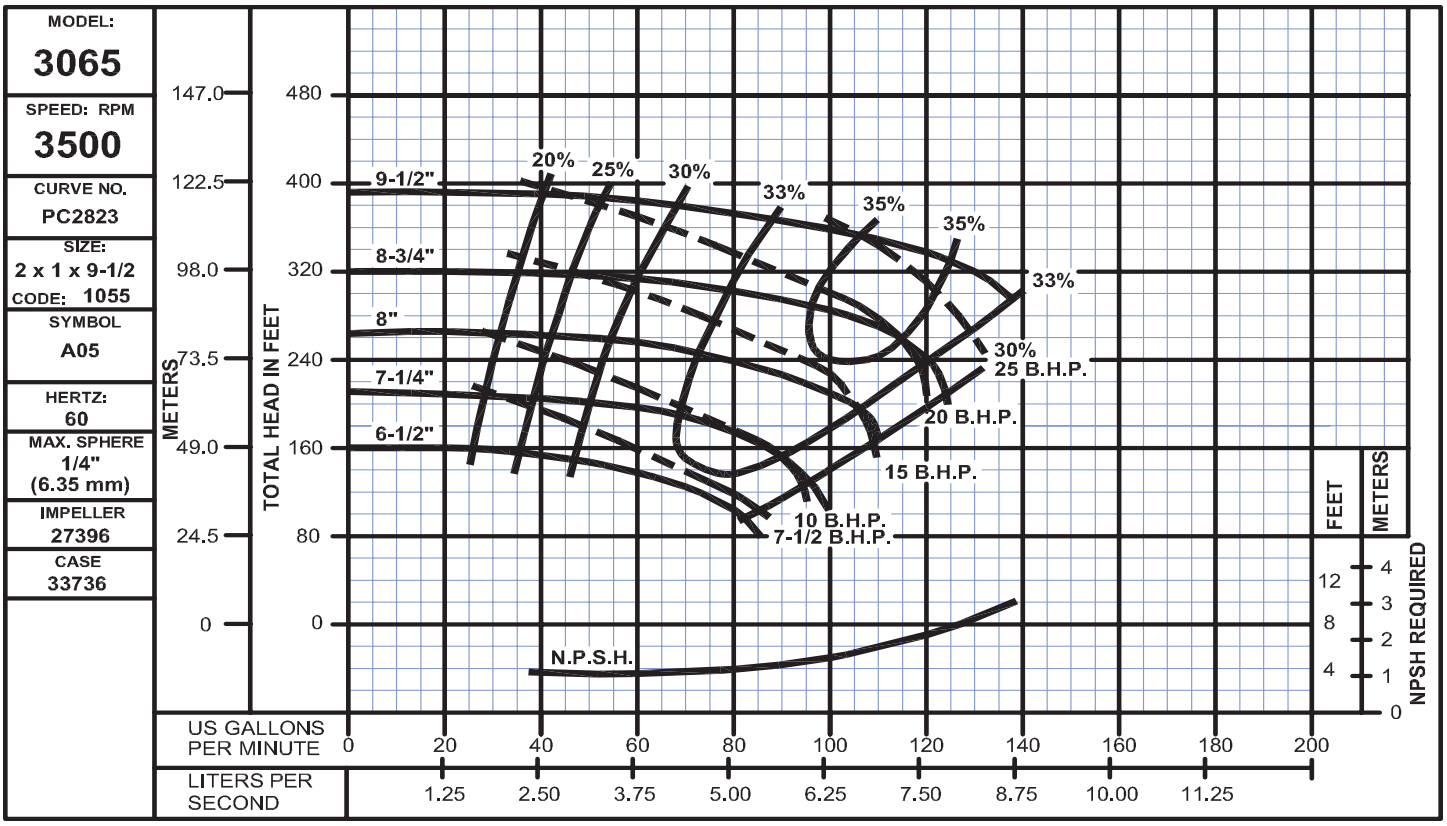


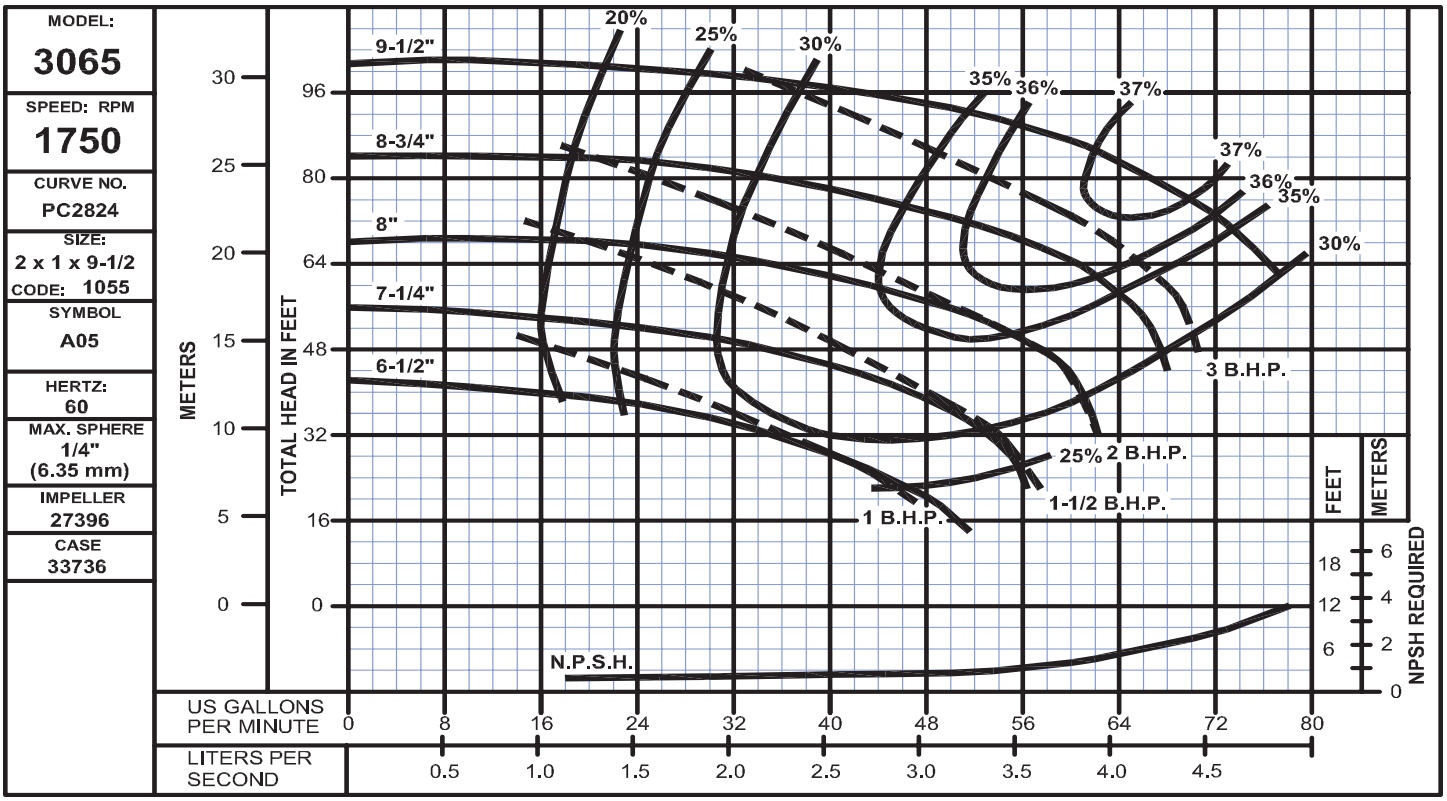
Fig. 3065

Size: 2 x 1 x 9-1/2, A05, 3500 & 1750RPM
Bulletin 3060

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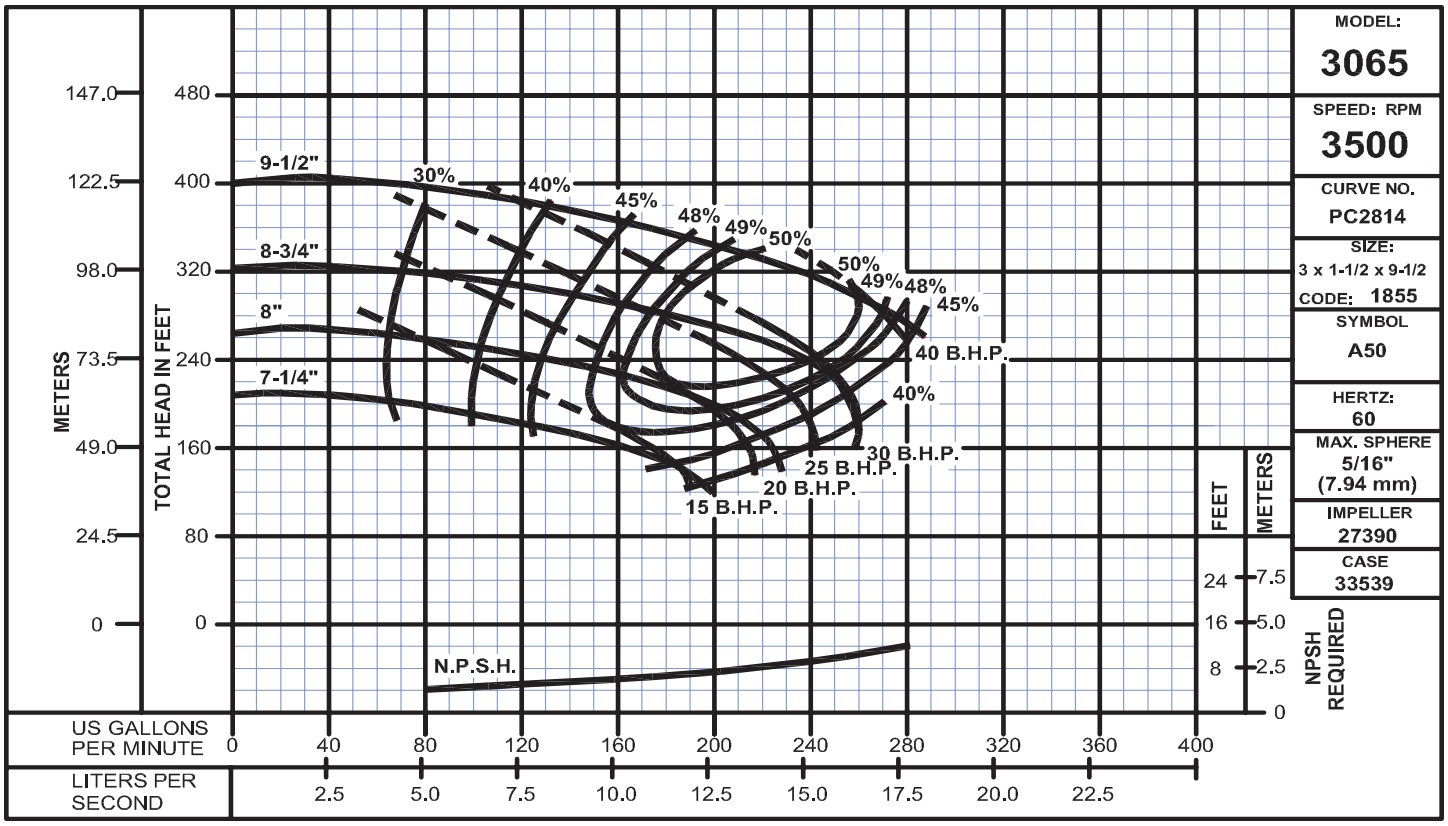
Curves shown performance with liquid having Specific Gravity - 1.0, Viscosity - 30 SSU

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Fig. 3065

Size: 3 x 1½ x 9-1/2, A50, 3500 & 1750RPM
Bulletin 3060

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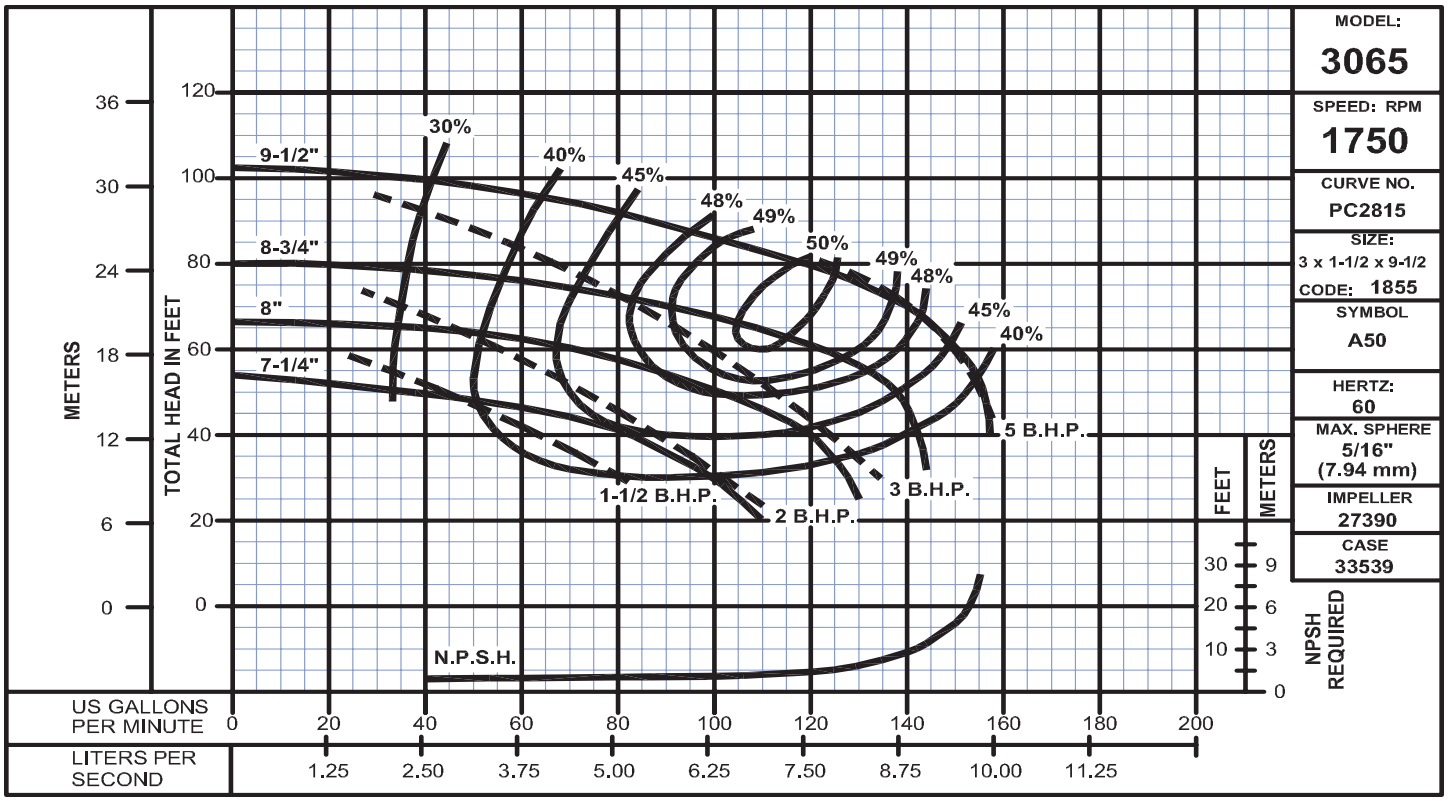
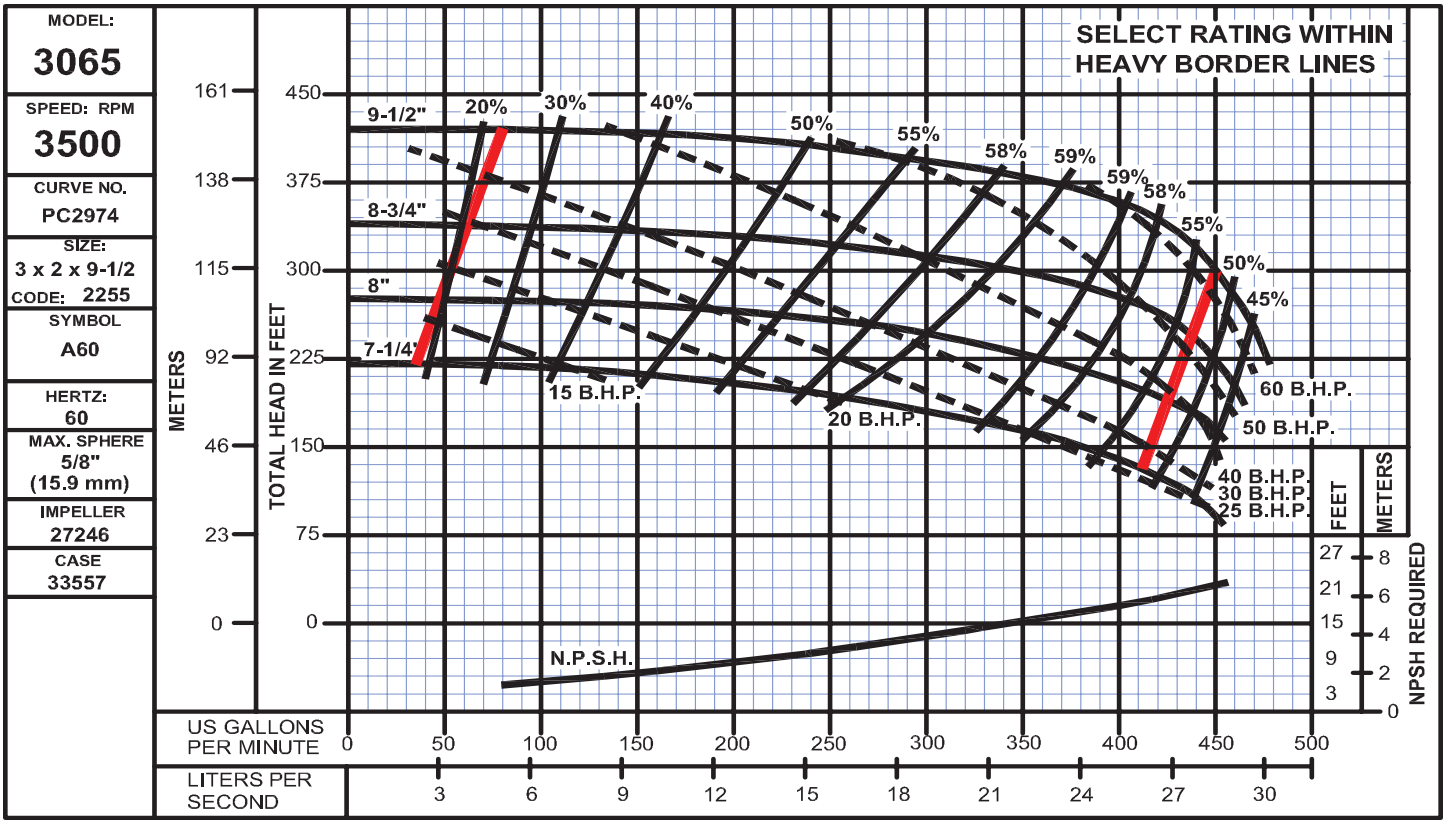


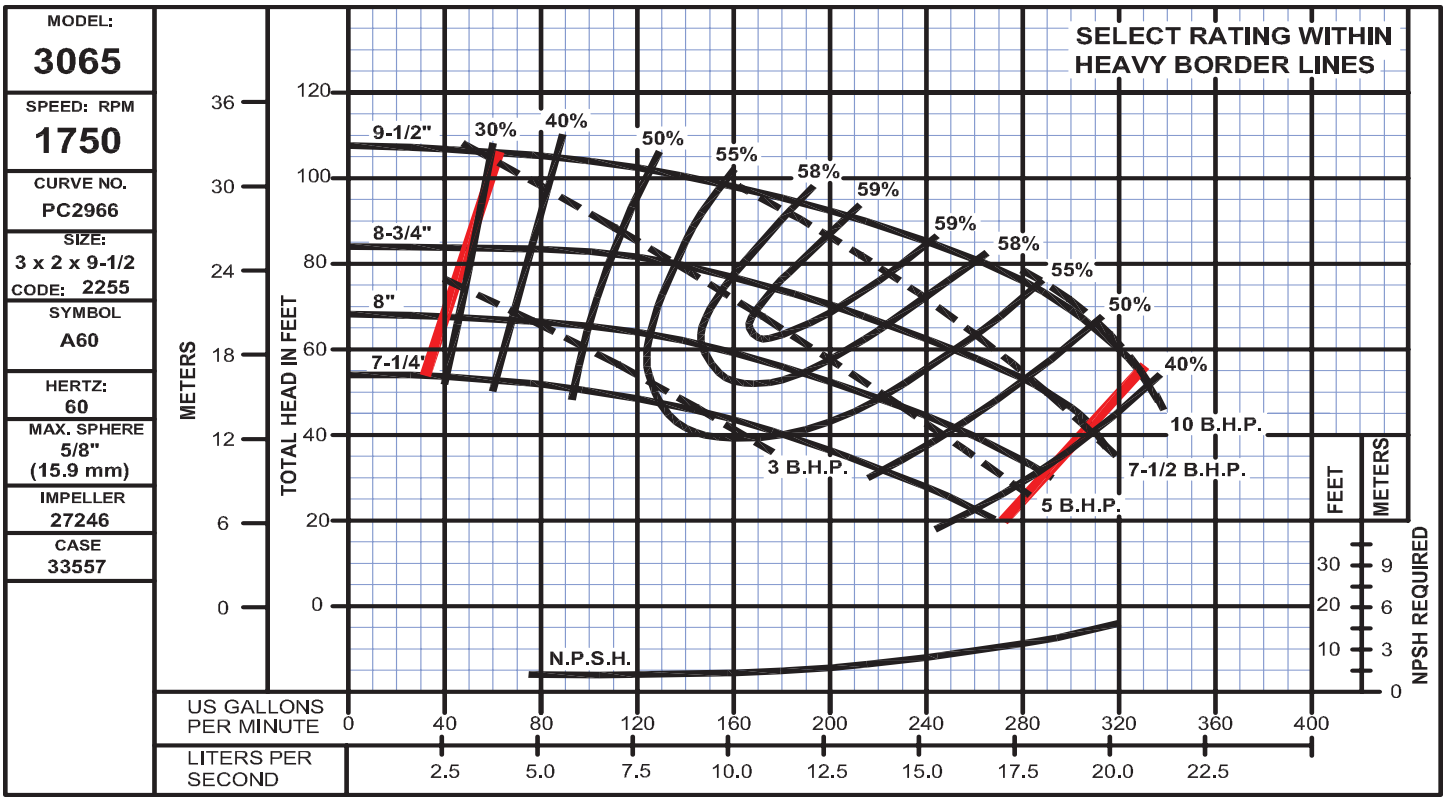
Fig. 3065

Size: 3 x 2 x 9-1/2, A60, 3500 & 1750RPM
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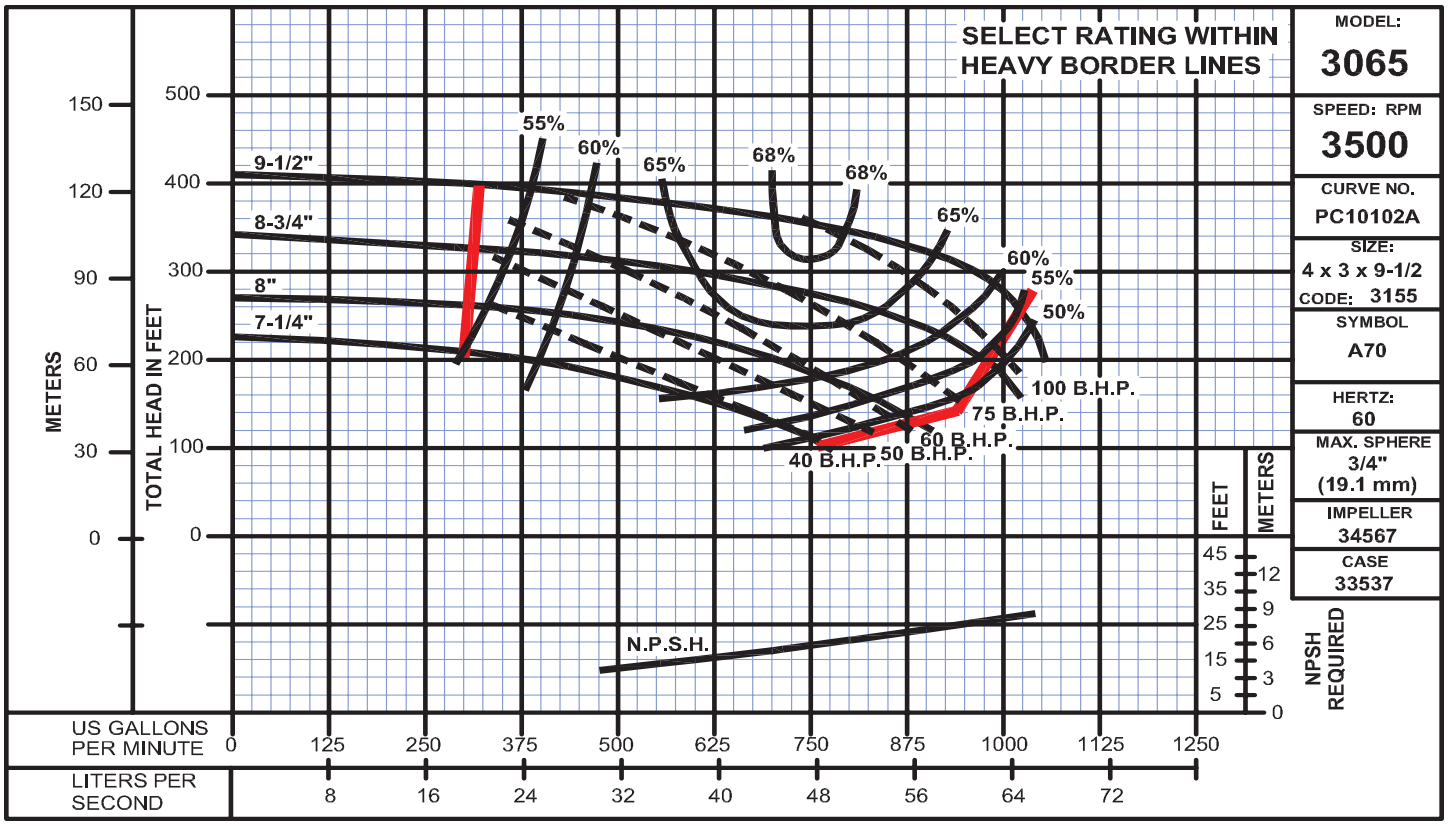
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Fig. 3065

Size: 4 x 3 x 9-1/2, A70, 3500 & 1750RPM
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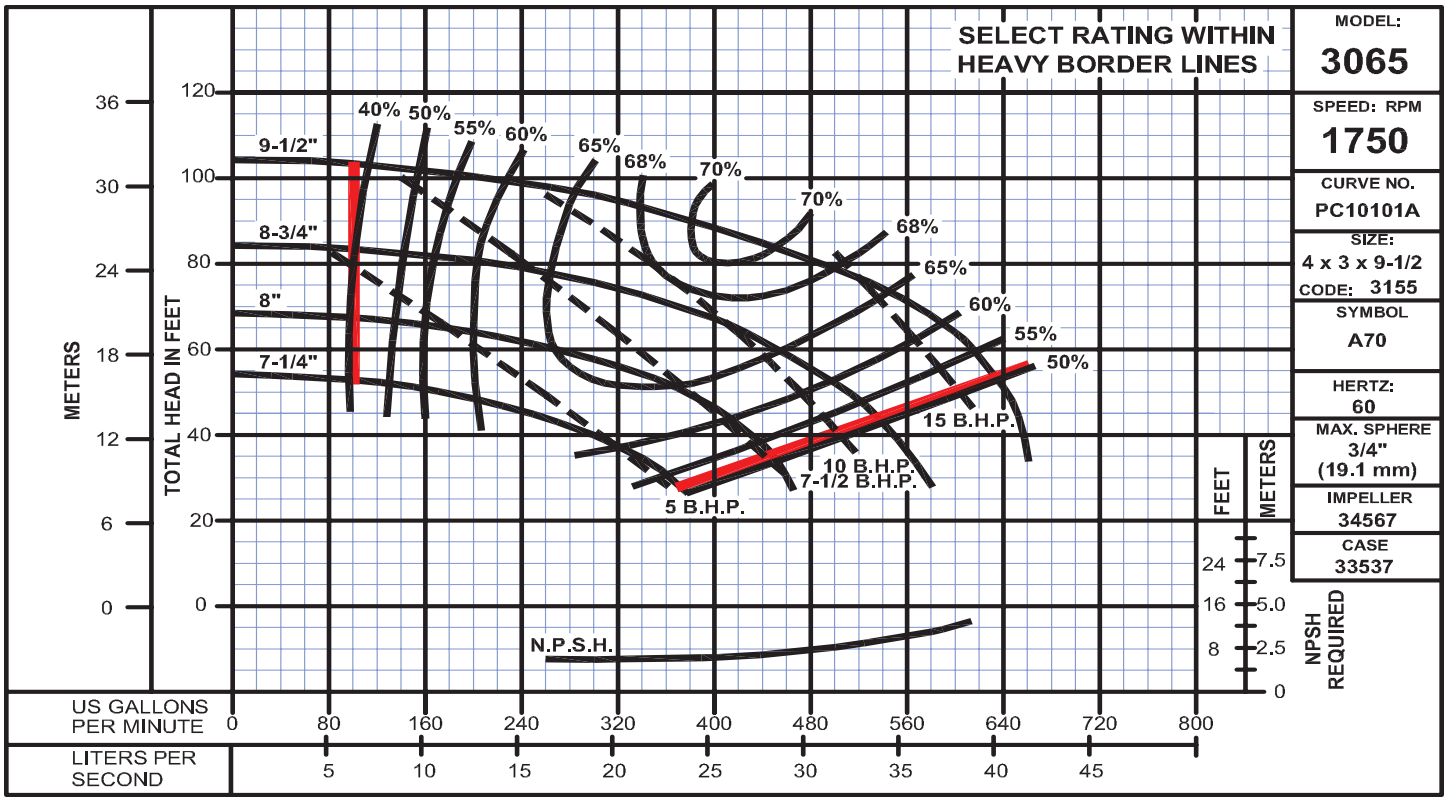


Fig. 3065 & 3066

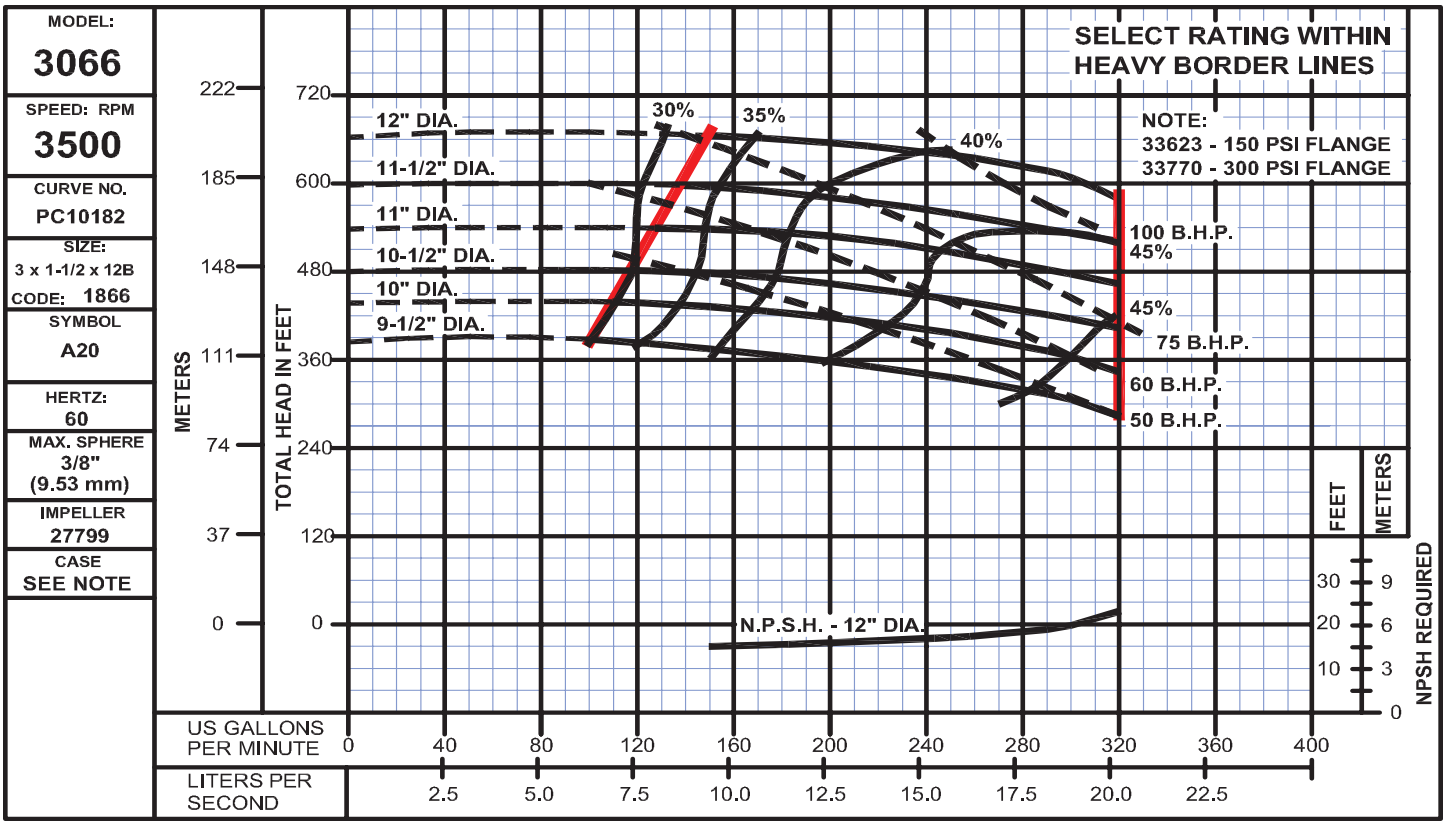
Size: 3 x 1-1/2 x 12B & 3 x 1-1/2 x 12, A20,
3500 & 1750RPM - Bulletin 3060

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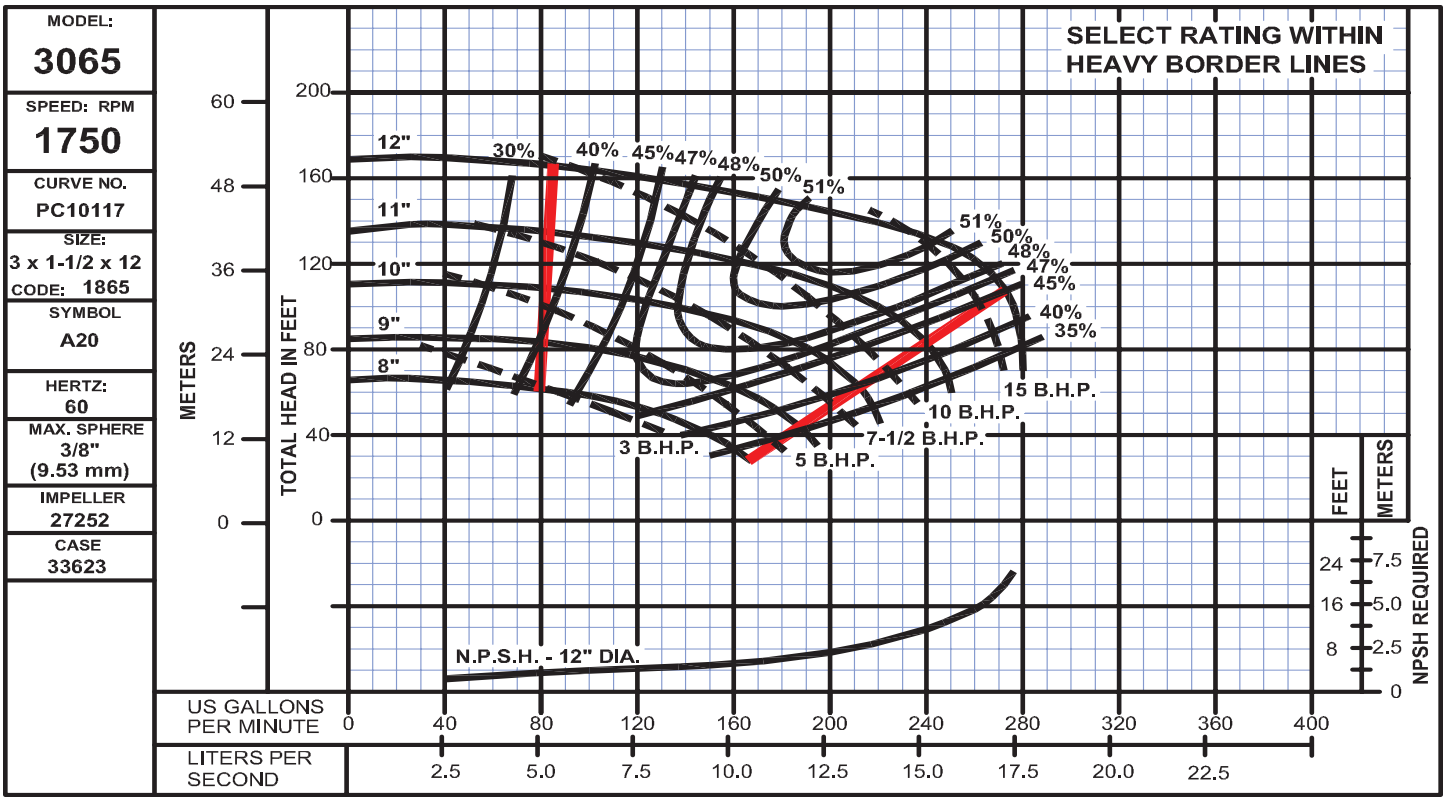
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MODEL: **3066**
SPEED: RPM **3500**
CURVE NO. PC10182
SIZE: 3 x 1-1/2 x 12B
CODE: 1866
SYMBOL A20
HERTZ: 60
MAX. SPHERE 3/8" (9.53 mm)
IMPELLER 27799
CASE SEE NOTE



MODEL: **3065**
SPEED: RPM **1750**
CURVE NO. PC10117
SIZE: 3 x 1-1/2 x 12
CODE: 1865
SYMBOL A20
HERTZ: 60
MAX. SPHERE 3/8" (9.53 mm)
IMPELLER 27252
CASE 33623



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Fig. 3065

Size: 3 x 1½ x 12, A20, 1150RPM
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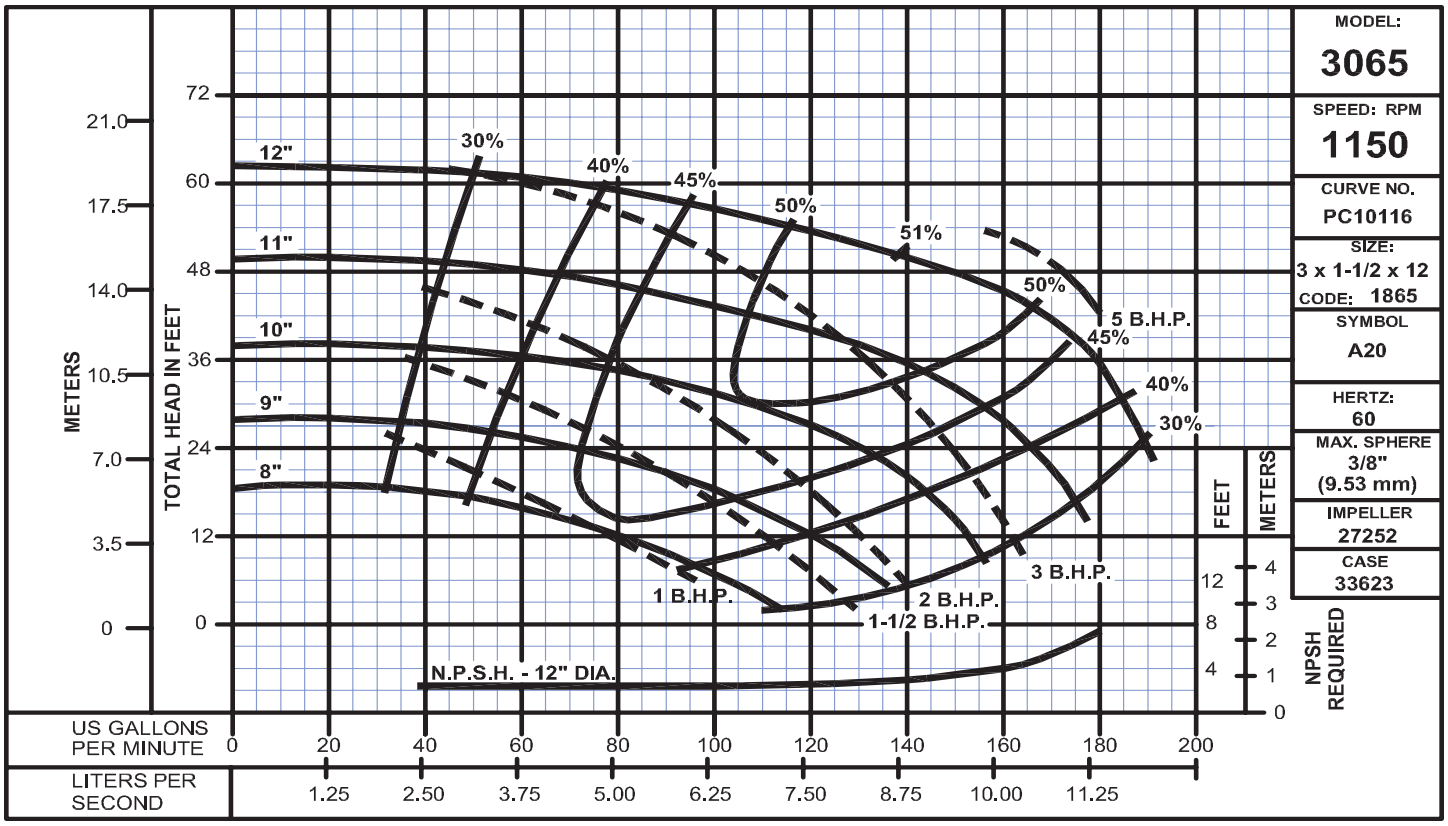


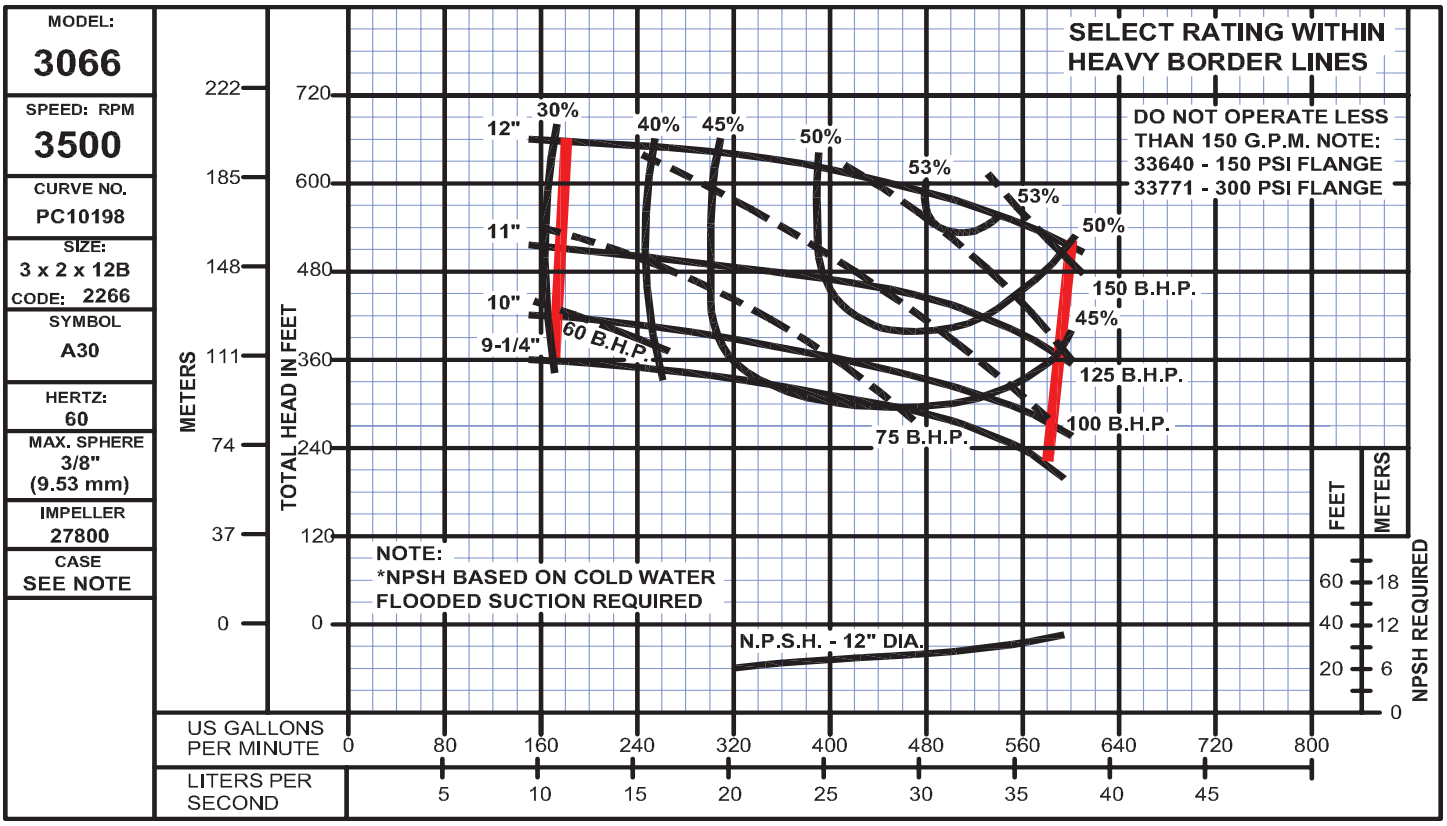
Fig. 3065 & 3066

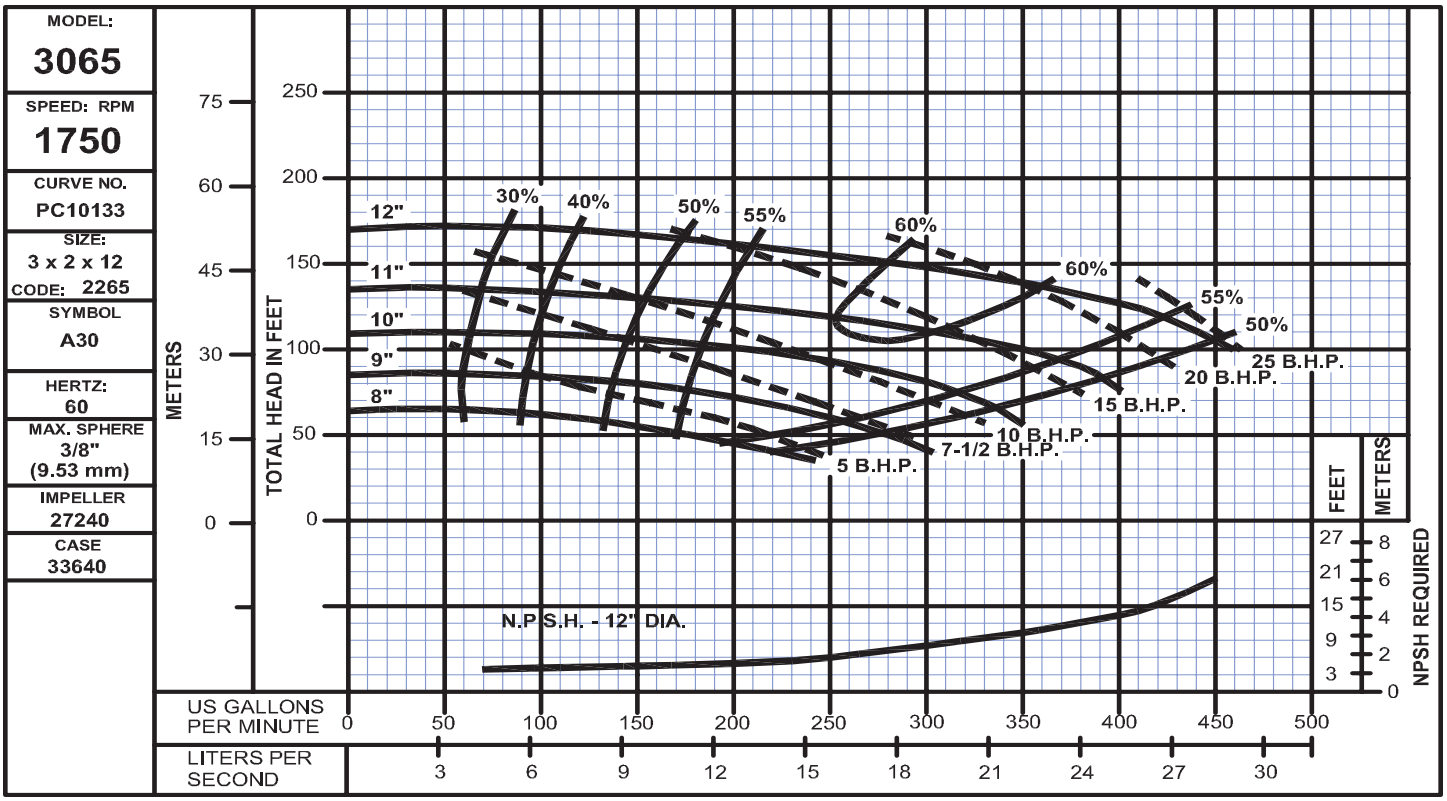
Size: 3 x 2 x 12B & 3 x 2 x 12, A30,
3500 & 1750RPM - Bulletin 3060

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Fig. 3065

Size: 3 x 2 x 12, A30, 1150RPM
Bulletin 3060

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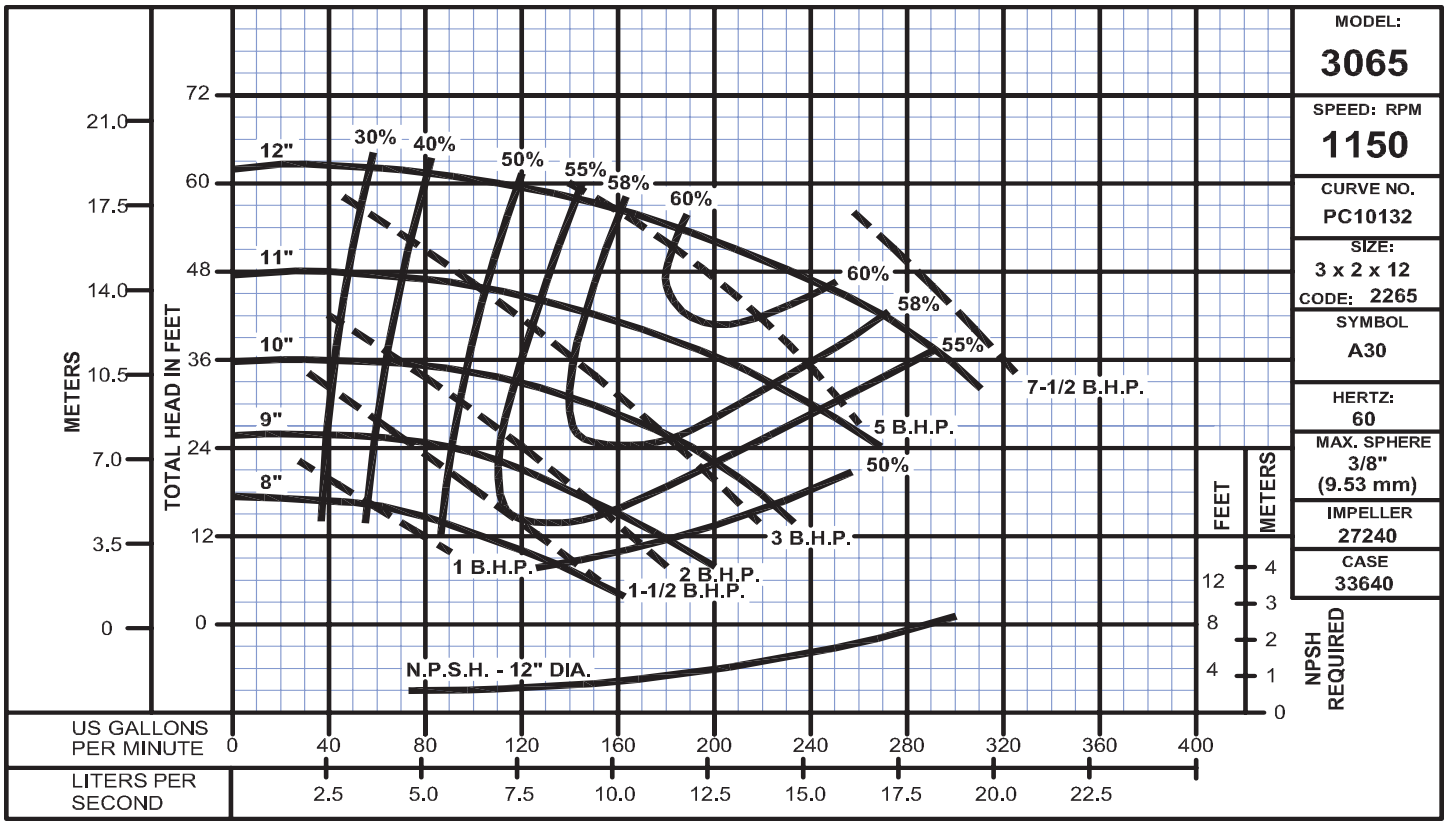
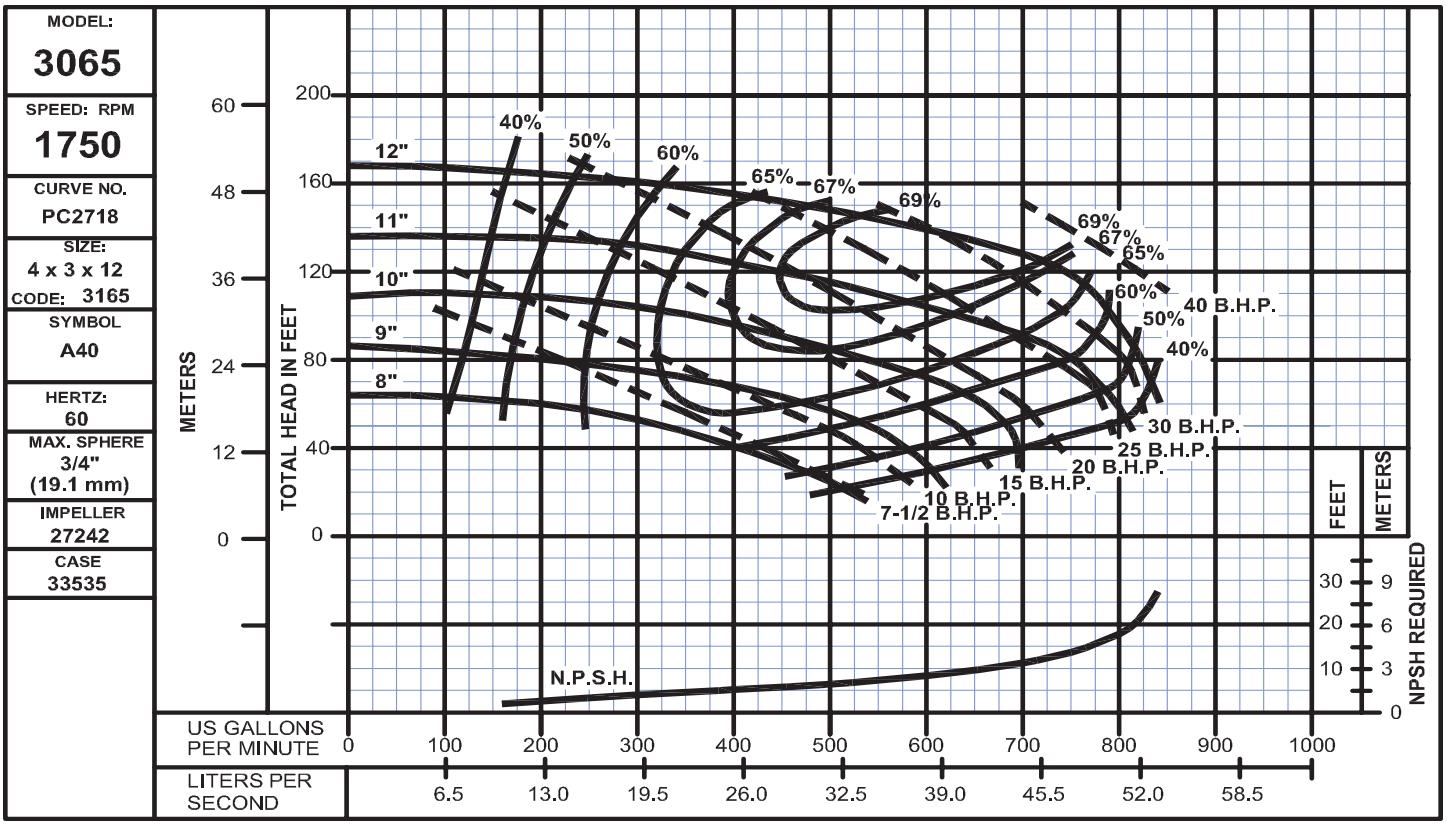


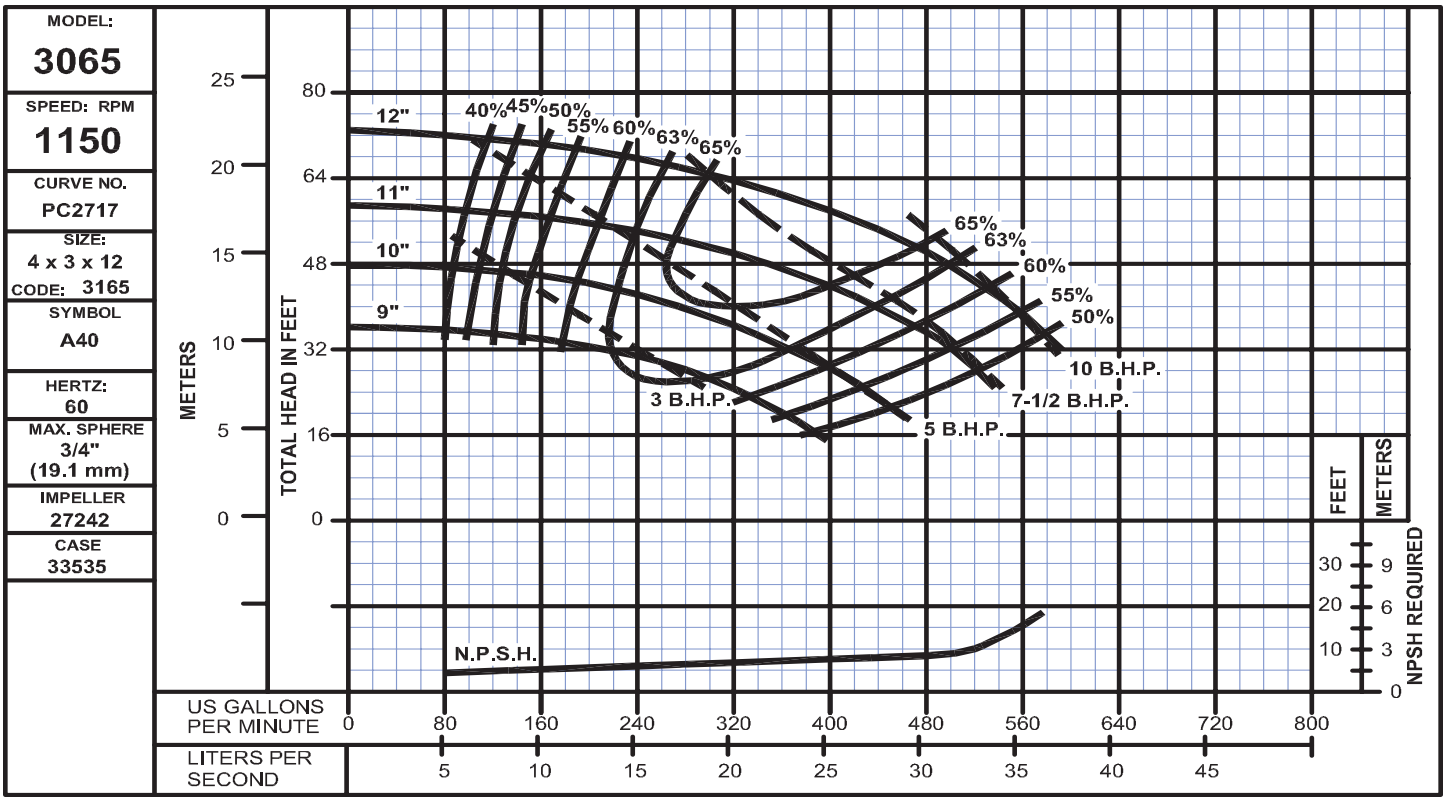
Fig. 3065

Size: 4 x 3 x 12, A40, 1750 & 1150RPM
Bulletin 3060

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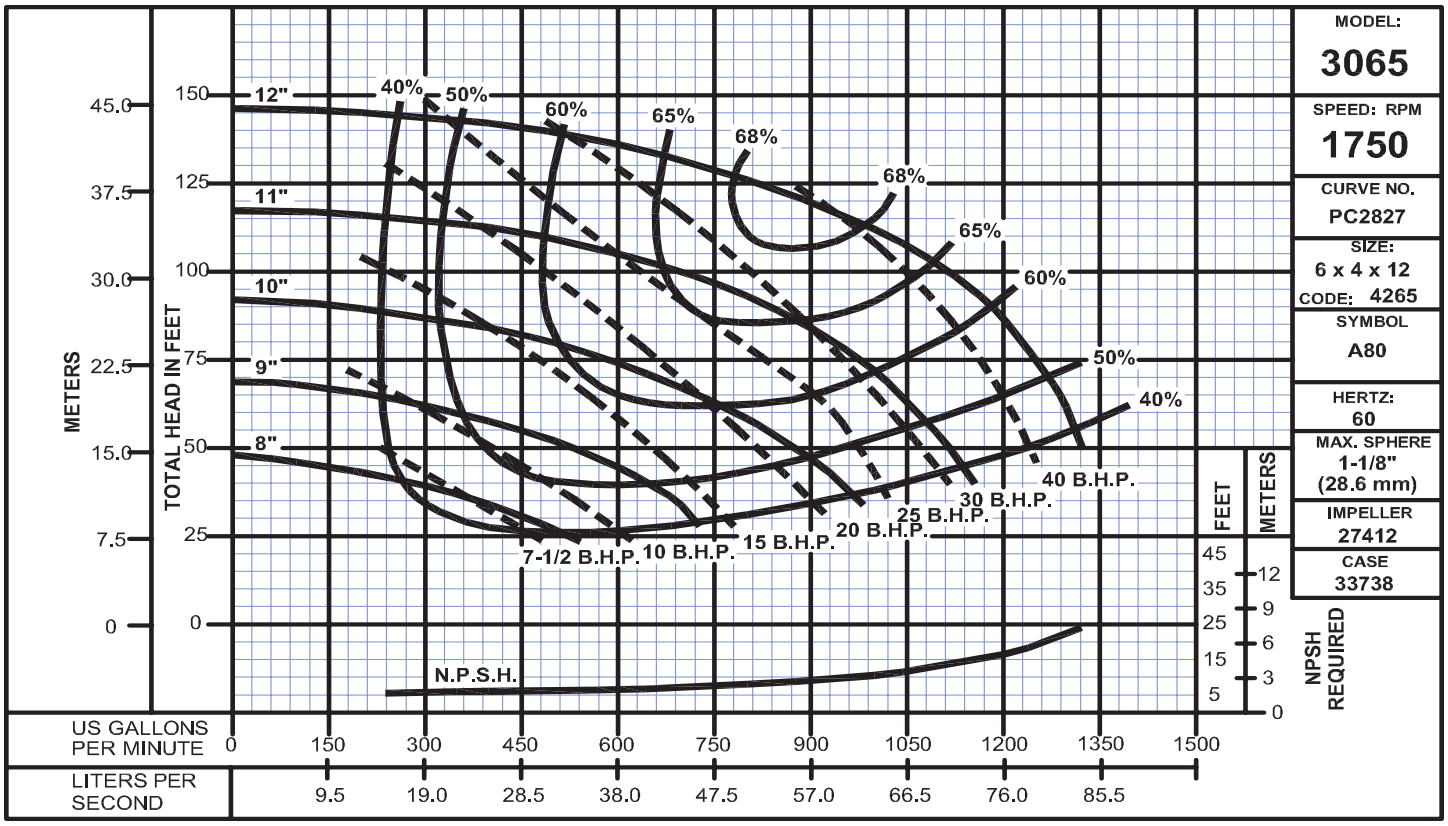
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Fig. 3065

Size: 6 x 4 x 12, A80, 1750 & 1150RPM

Bulletin 3060

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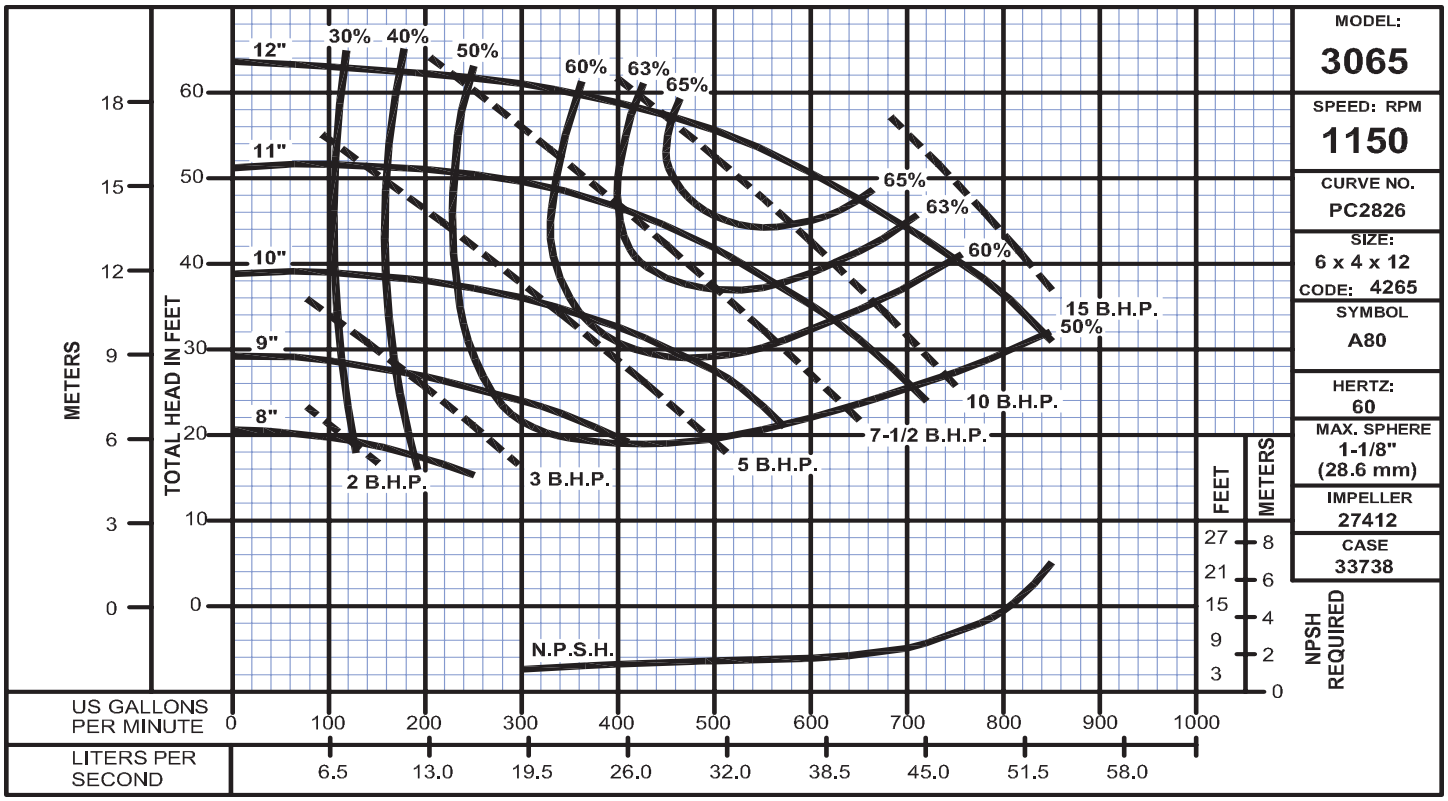


Fig. 3066

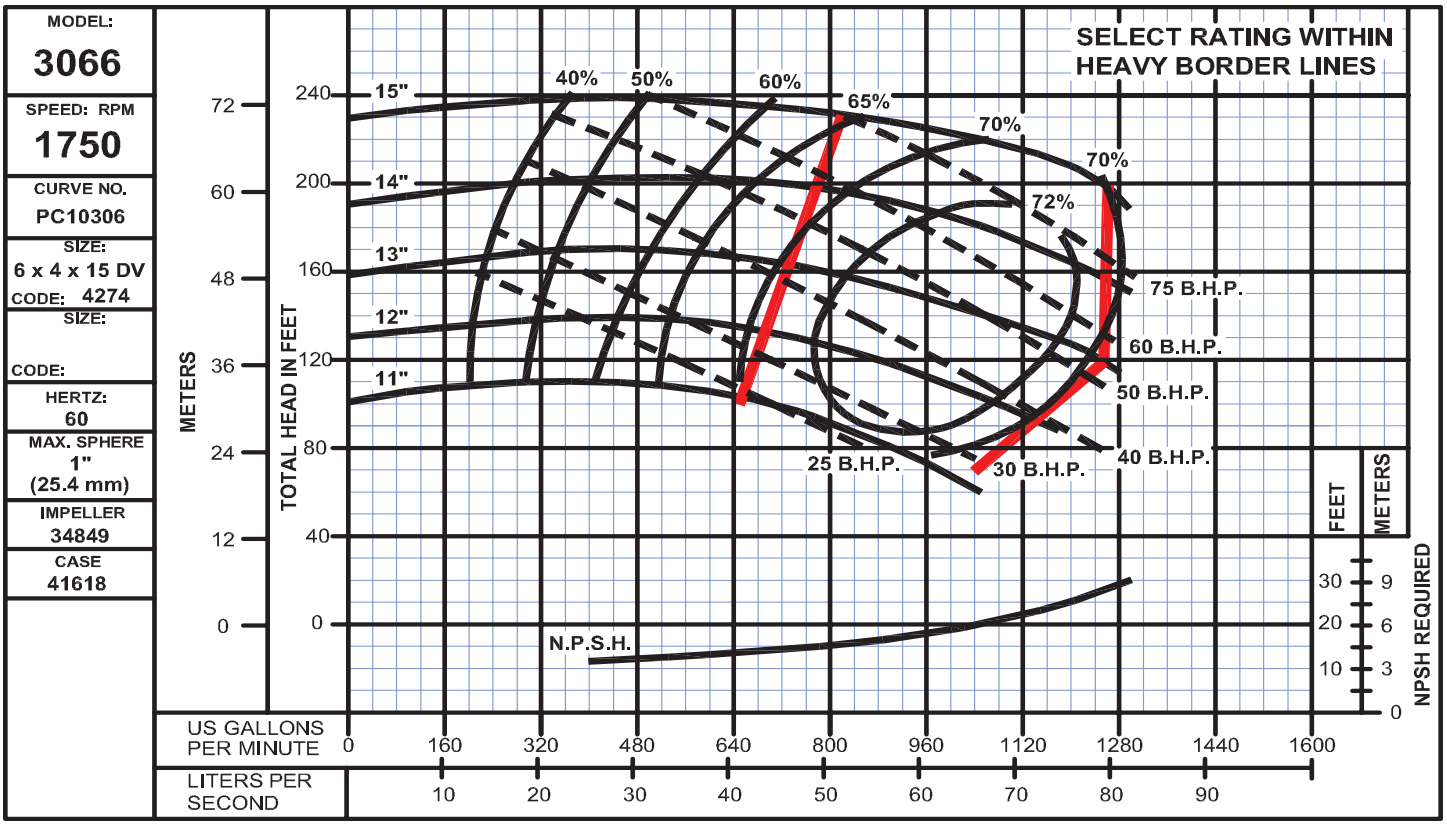
Size: 6 x 4 x15 D.V., 1750 & 1150RPM

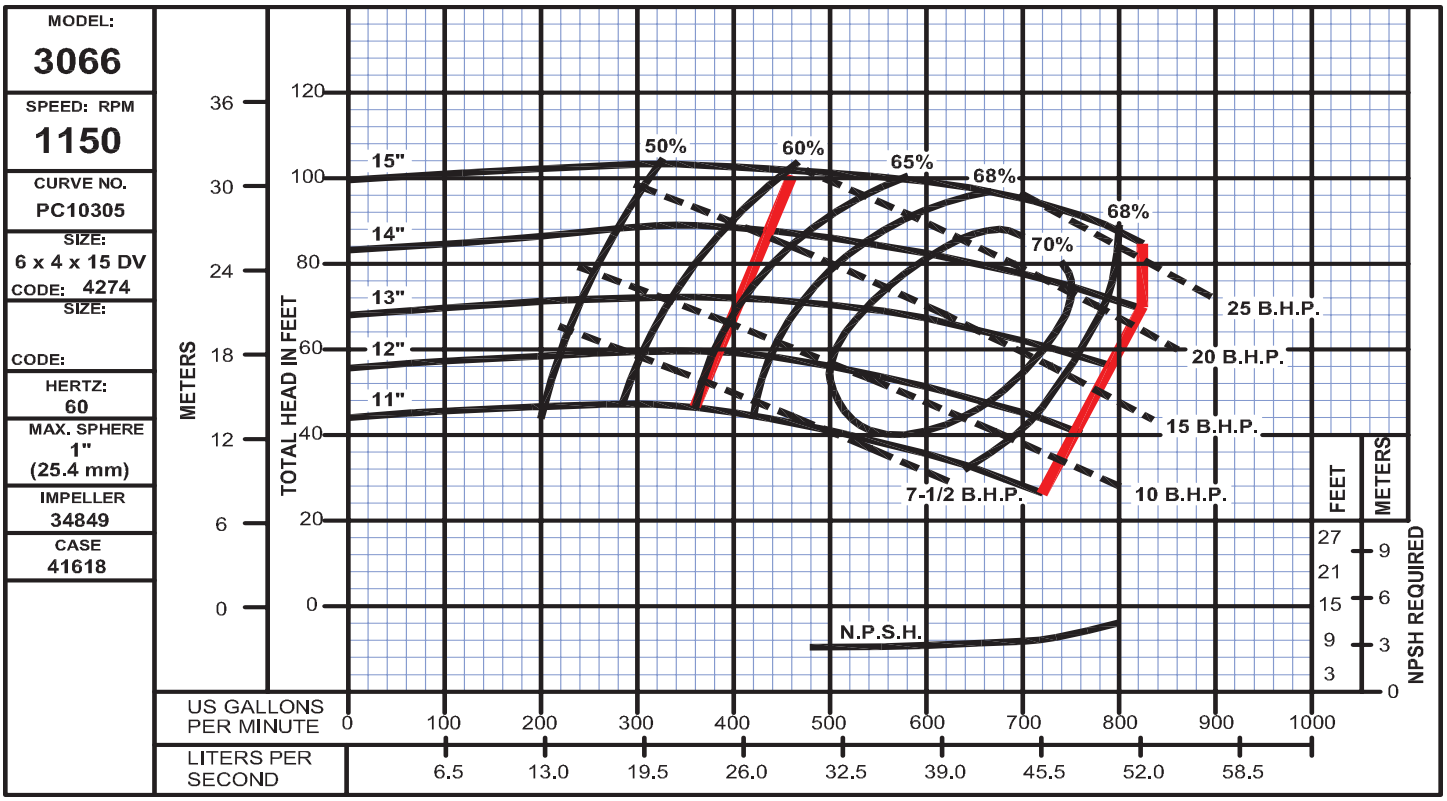
Bulletin 3060

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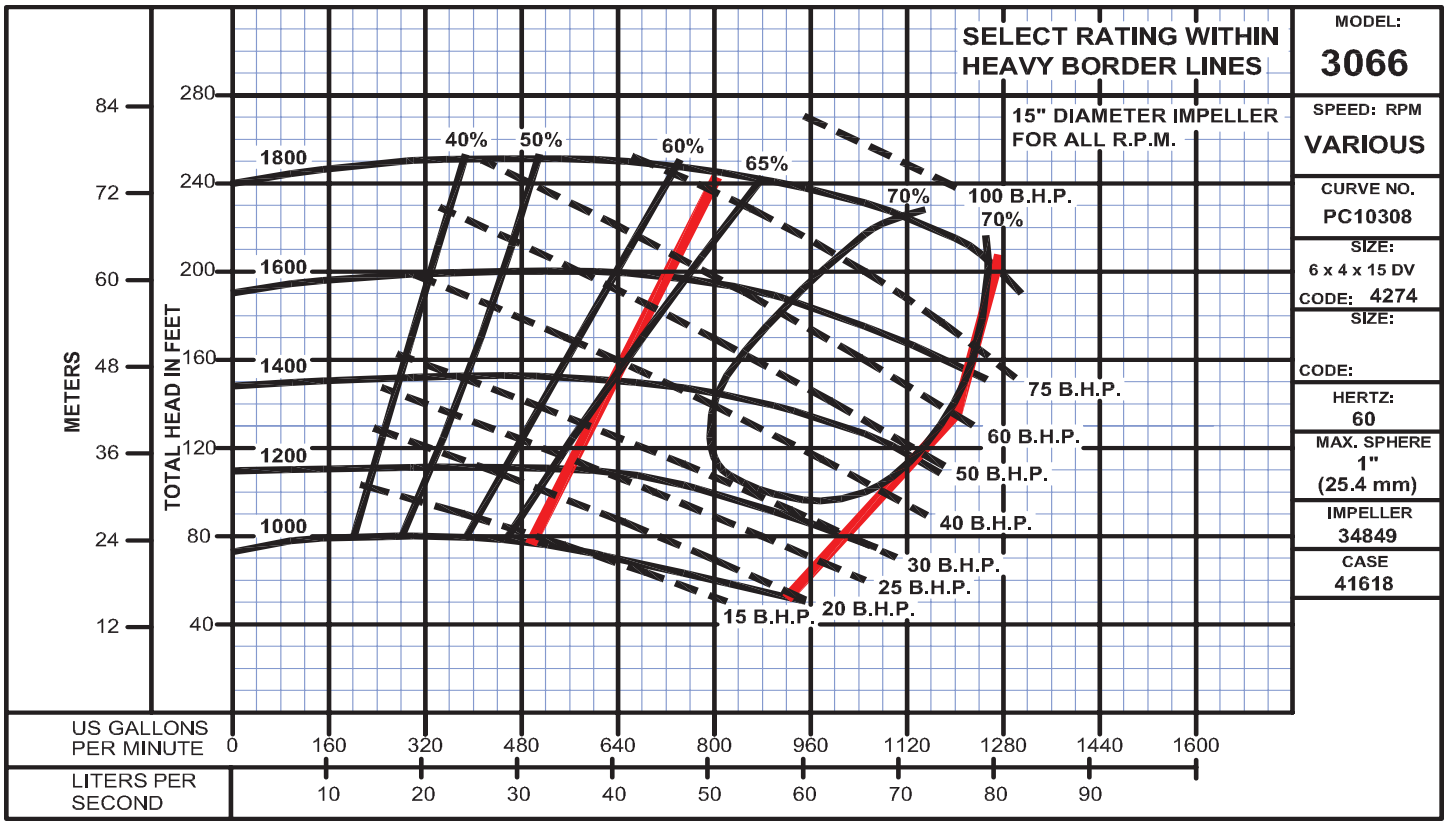
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70%
70%
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75 B.H.P.
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50 B.H.P.
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30 B.H.P.
25 B.H.P.
20 B.H.P.
15 B.H.P.
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160
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480
640
800
960
1120
1280
1440
1600
LITERS PER SECOND
10
20
30
40
50
60
70
80
90
MODEL:
3066
SPEED: RPM
VARIOUS
CURVE NO.
PC10308
SIZE:
6 x 4 x 15 DV
CODE: 4274
SIZE:
CODE:
HERTZ:
60
MAX. SPHERE
1"
(25.4 mm)
IMPELLER
34849
CASE
41618

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