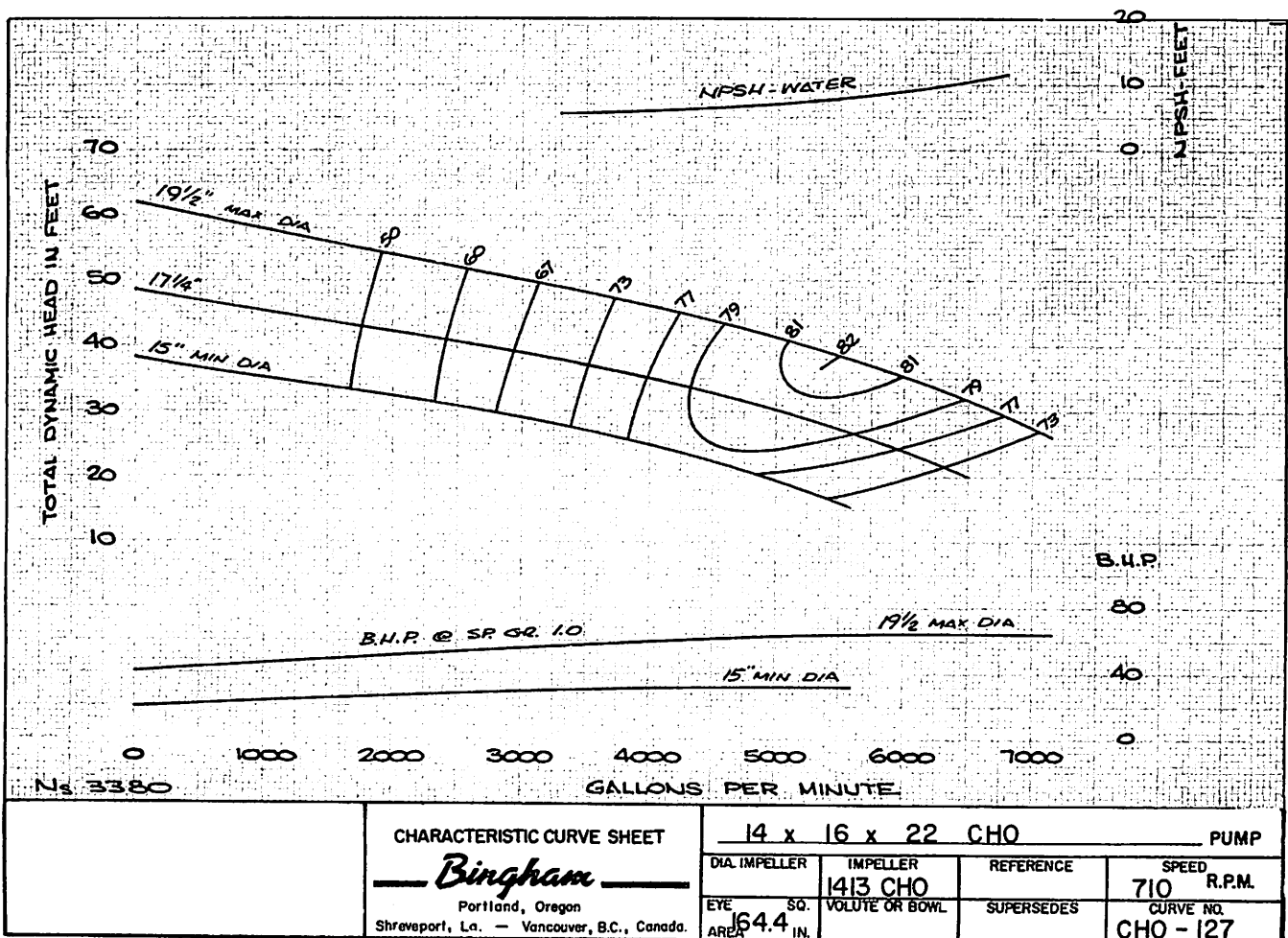
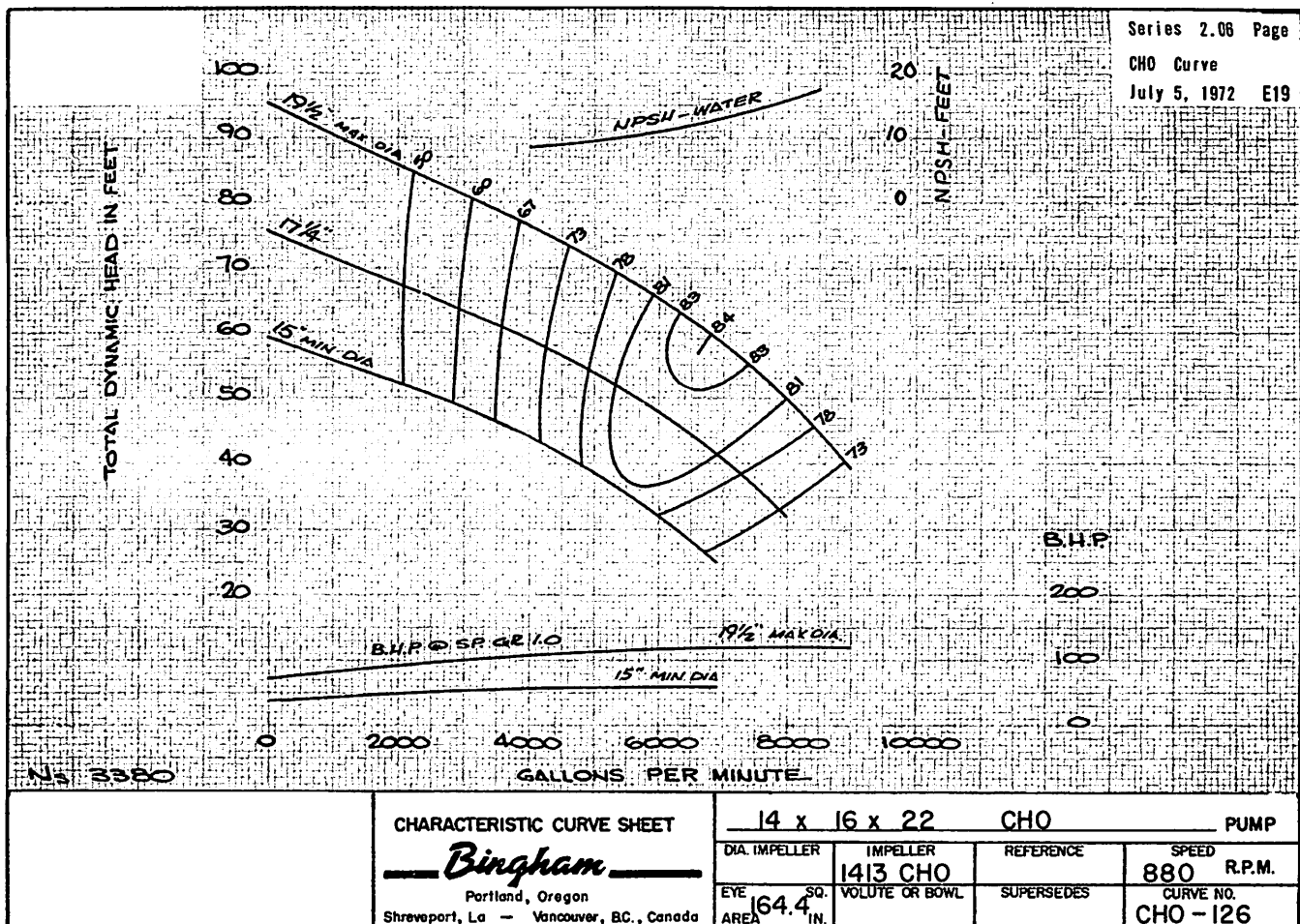
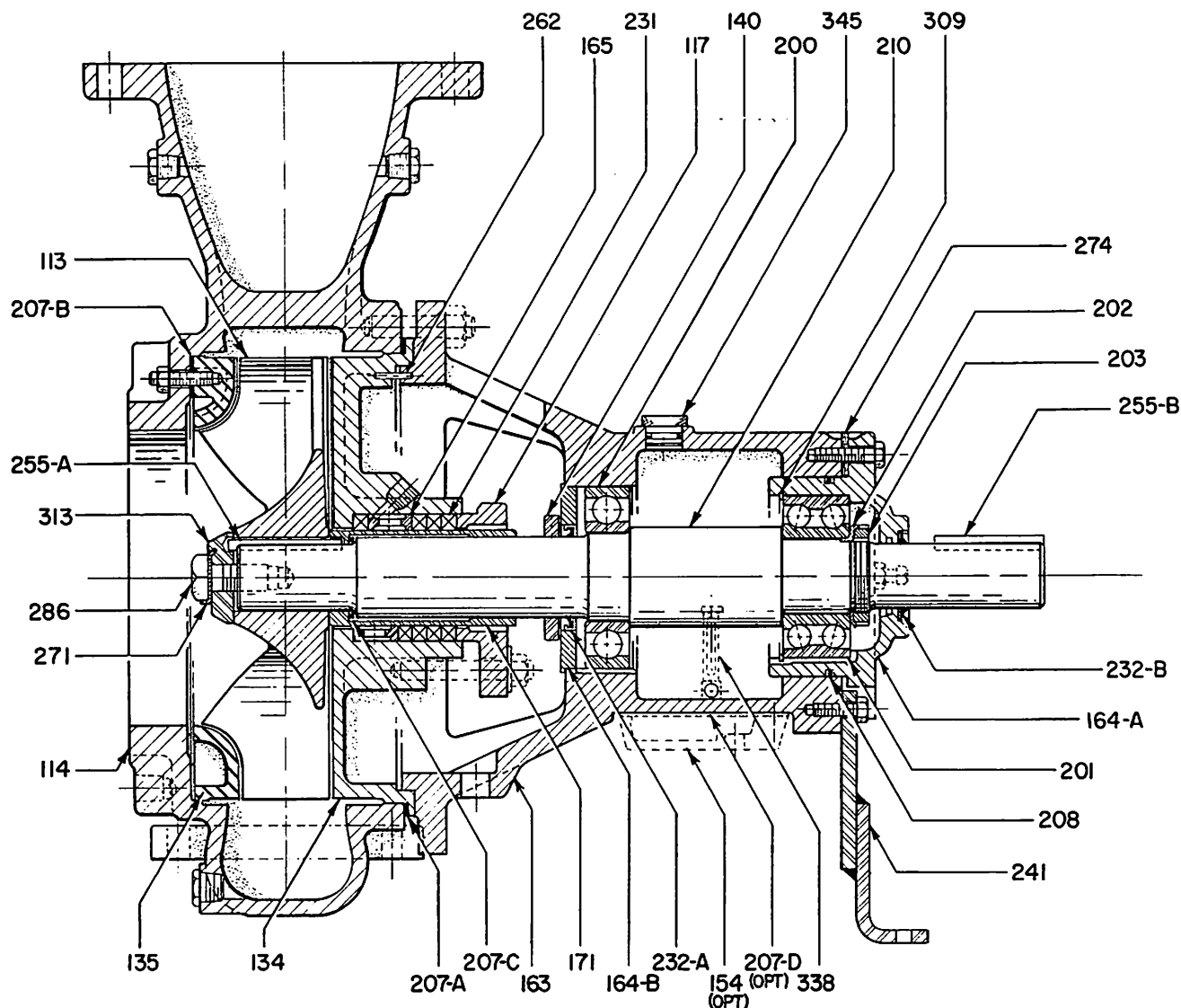






Unnumbered parts in the illustrations are the same as corresponding parts shown with numbers.

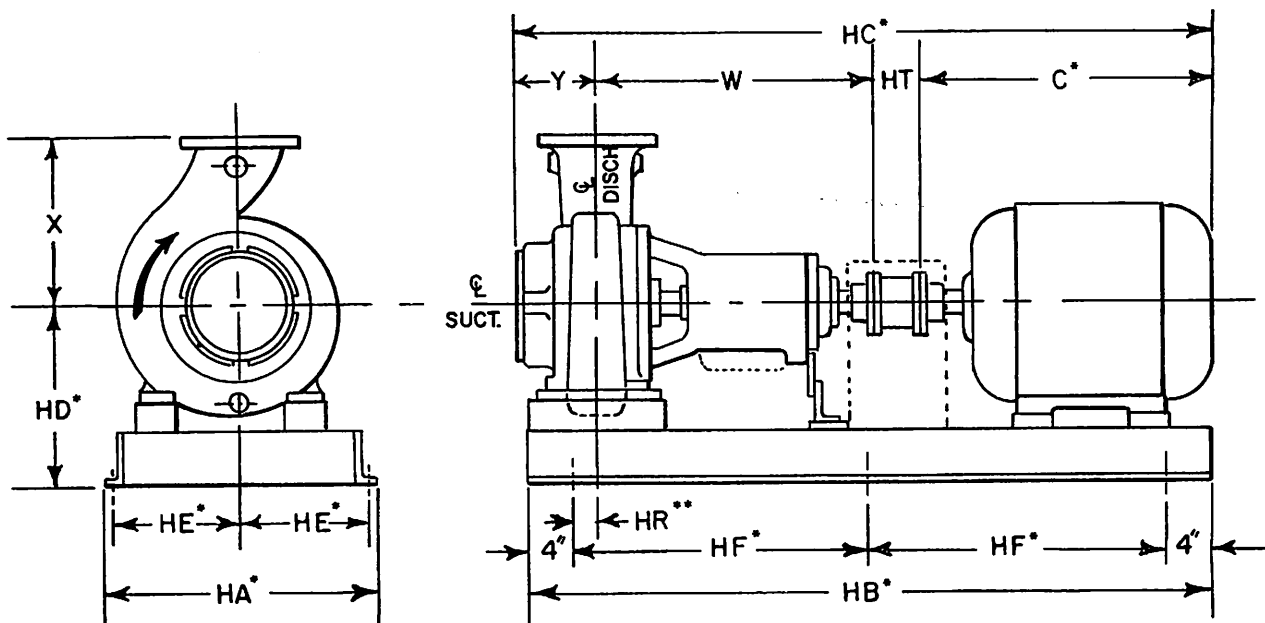
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
113	Impeller	200	Radial Bearing	232-B	Oil Seal
114	Volute Case	201	Thrust Bearing	241	Tail Bracket
117	Packing Gland	202	Bearing Lock Washer	255-A	Key
134	Stuffing Box	203	Bearing Lock Nut	255-B	Key
135	Side Plate	207-A	Gasket	262	Dowel Pin
140	Deflector Disc	207-B	Gasket	271	Tabbed Lock Washer
154	Water Jacket Cover (option)	207-C	Gasket	274	Shims
163	Bearing Housing	207-D	Gasket(optional)	286	Cap Screw
164-A	Bearing Housing Cover	208	'O' Ring	309	Retaining Ring
164-B	Bearing Housing Cover	210	Pump Shaft	313	Retaining Cap
165	Lantern Ring	231	Packing	338	Sight Glass
171	Shaft Sleeve	232-A	Oil Seal	345	Inspection Plug

DRAWING NO. WP-419

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Factories: PORTLAND, OREGON • SHREVEPORT, LOUISIANA • VANCOUVER, B.C. CANADA.

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Size	Brg Brkt	Suct.	Disch	C *	X	Y	W	HD *	HR	HB *	HF *	HE *	HA *	HC *	HT
3x6x12-1/2	1	6	3	25-1/8	12	4-1/2	22-13/16	15	3/8**	60	26	11-1/4	26	58-7/16	6
4x6x12-1/2			4	28-11/16	13	4-3/4	23-3/16	15	1/4					62-5/8	
6x8x12-1/2			6	32-9/16	14	5-1/4	23-11/16	16	5/8					68-1/2	
4x6x15	2	6	4	32-9/16	15	4-5/8	25-7/16	16-1/2	1/4	68	30	12-1/4	28	68-5/8	6
6x8x15			6	34-1/16	15-1/2	5-1/8	25-13/16	16-1/2	5/8					72	
8x10x15			8	36-1/16	17-1/2	5-1/4	26-1/16	18	7/8					74-3/8	
10x10x15	3	10	10	45	18-1/2	5-3/4	26-5/16	20	1-3/8	84	38	15	34	85-1/16	8
4x8x18			4	34-1/16	16-1/2	5	27-7/8	17-1/2	1/4					72-15/16	
6x8x18			6	45	18	5-1/4	28-1/8	19	1/2					85-3/8	
8x12x18	4	12	8	57	19	6-1/8	29-3/16	20-1/2	1-1/4	98	45	15	34	100-5/16	8
10x12x18			10	45	19-1/2	6-1/2	29-9/16	20-1/2	1-5/8					90-1/16	
12x12x18			12	45-1/8	24	6-7/8	29-1/16	25-1/2	2-3/8					40	
6x10x22	5	10	6	45-1/8	20-1/2	6	31-5/8	22	7/8	88	40	15	34	90-3/4	8
10x12x22			12	47	23-1/2	7	32-1/2	25	2					95-1/2	
12x14x22			14	55-7/16	26	7-1/2	32-9/16	26-1/2	2-1/2					104-1/2	
14x16x22	6	14	14	53	29	8	32-9/16	29	3	102	47	21	46	103-9/16	9
16x18x27			16	63-7/16	35	9-1/2	36-1/4	33	5					119-3/16	
18x20x27			18	67-7/16	37	10-5/8	36-9/16	35	6					125-5/8	

NOTE: *Dimensions HC, HF, HB, and C vary with driver selection.

All dimensions are in inches and for guidance only.

Certified drawings will be provided in all cases of actual construction.

**On the 3x6x12½, dimension HR is 3/8" on the drive side of centerline discharge.

TECHNICAL DATA — TYPE CHO INTERNAL DIMENSIONS

	3/8x12½	4/6x12½	6/8x12½	4/6x15	6/8x15	8x10x15	10x10x15	4/8x18	6/8x18	8x12x18	10x12x18	12x12x18	6x10x22	10x12x22	12x14x22	14x16x22	16x18x27	18x20x27		
Max.-Min. Dia.	12½/10			15/12		15/11¼		18/14½				18/12		22/17½			22/15		24½/19 24/18½	
Volute Constr.	SV																DV			
Standard Flange Rating	150#																			
Max. Dia. Spherical Solids	¾	1½	2½	1½	1½	1¾	2½	¾	1½	2½	2½	2½	1½	3½	3½	3½	4	3¾		
Number of Vanes	3					4		3			4	5	3			4				
Bore	3⅞			4¼				4⅞					5⅞				6			
Depth	3¾			3¾				3¾					4⅞				4⅞			
Size of Packing	½												¾							
Number of Rings	4																			
Sleeve O.D. Packing	2⅞			3¼				3⅞					4¾				4¾			
Radial Thrust	6311			6315				6318					6320				6322			
	3311**			3313**				3316**					3318**				3320**			
Distance Rad. Brg. to Imp.	9⅞	9⅞	10⅞ ₃₂	10⅞	10¾	11	11¼	10⅞ ₃₂	10⅞ ₃₂	11⅞ ₃₂	12¼	11¾	12⅞	13⅞ ₃₂	13¼	13¼	14⅞	14¾		
Distance between Brngs	6⅞			7⅞				8⅞					9⅞				11			
Shaft Diameter at Impeller	1⅞			2¼				2⅞					3⅞				3¾			
Shaft Diameter at Coupling	1¾			2¼				2⅞					3⅞				3¾			
Shaft Diameter between Brgs	2⅞			3⅞				4					4½				5			
Hydrostatic Test Pressure	250																			
18-8 Stainless	150																			
Cast Iron Class 50	150																			
Maximum RPM	1760										1760*					1170*				

*With reduced impeller diameter

**Consult Canadian engineering for possible high capacity thrust bearing requirements for speeds above the top speed as shown on the sales manual performance curve.

Supersedes page dated December 20, 1973.

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