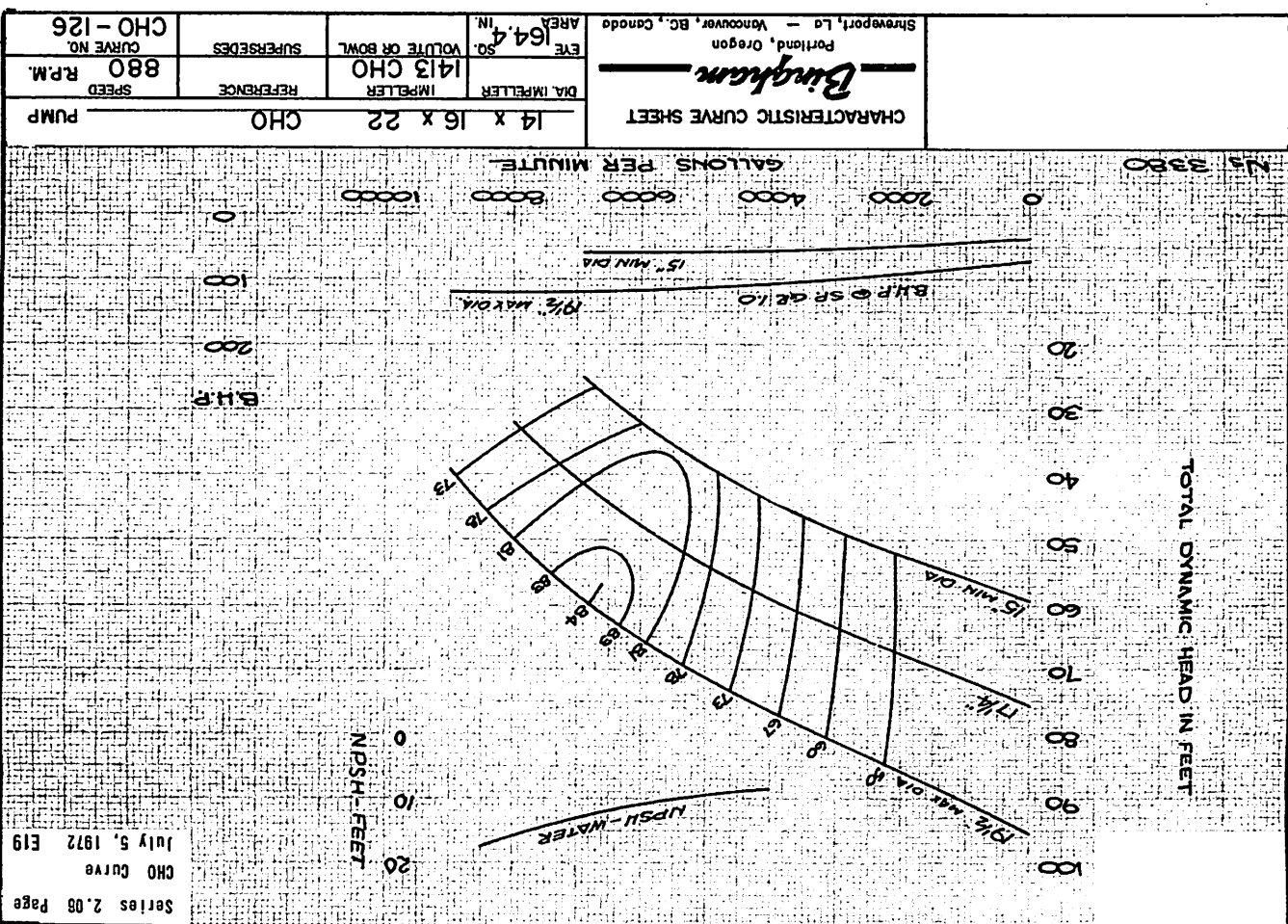
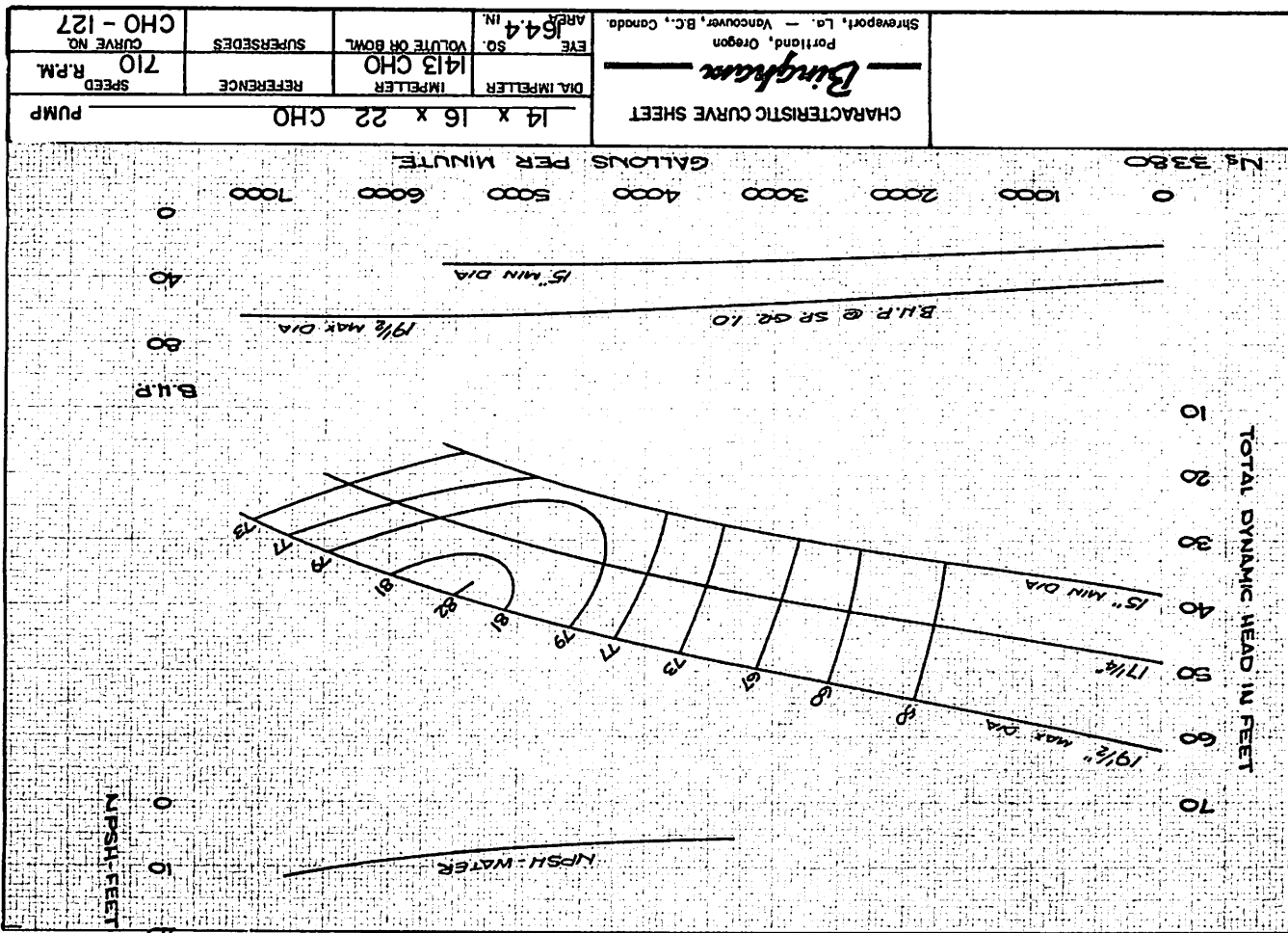
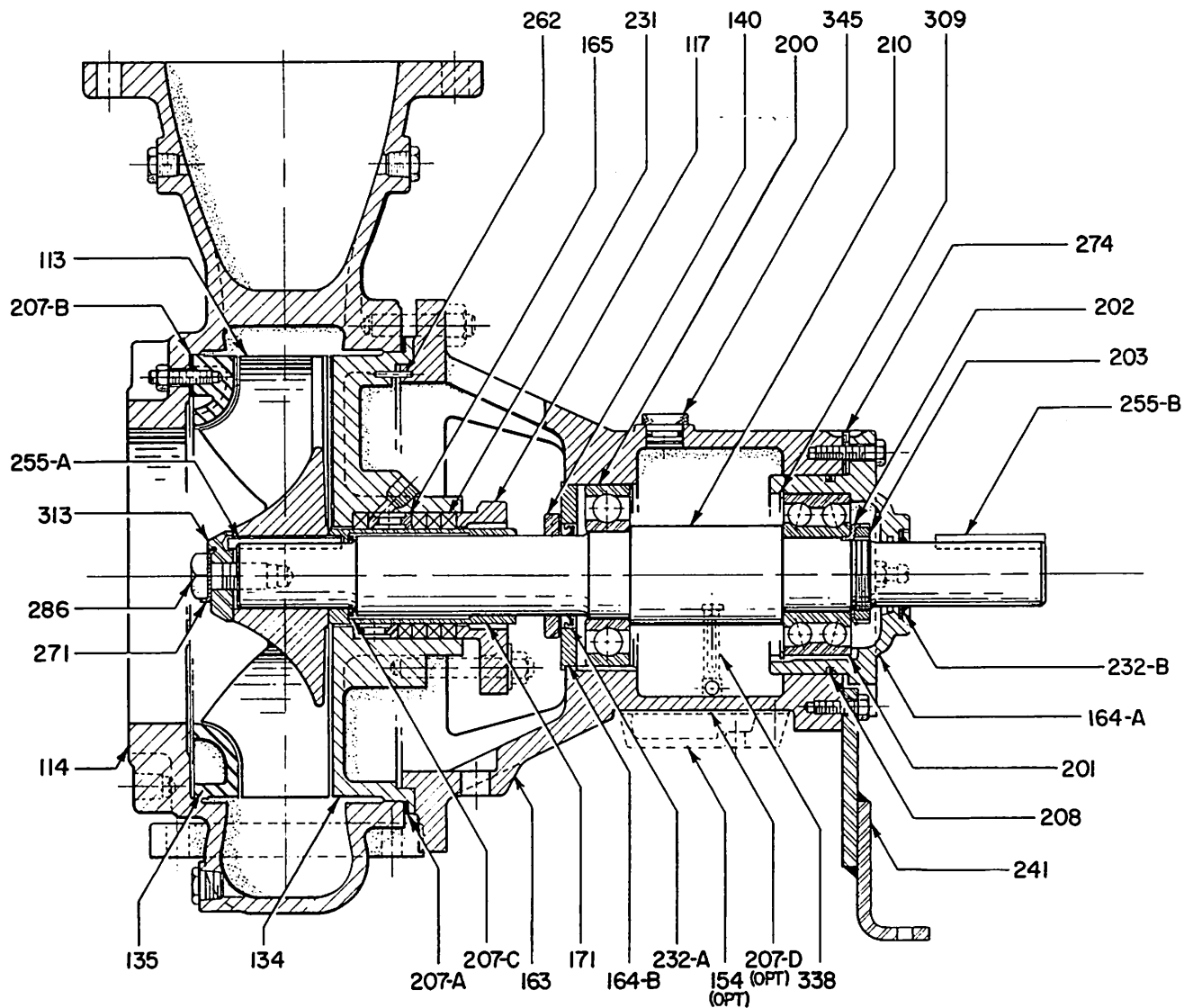


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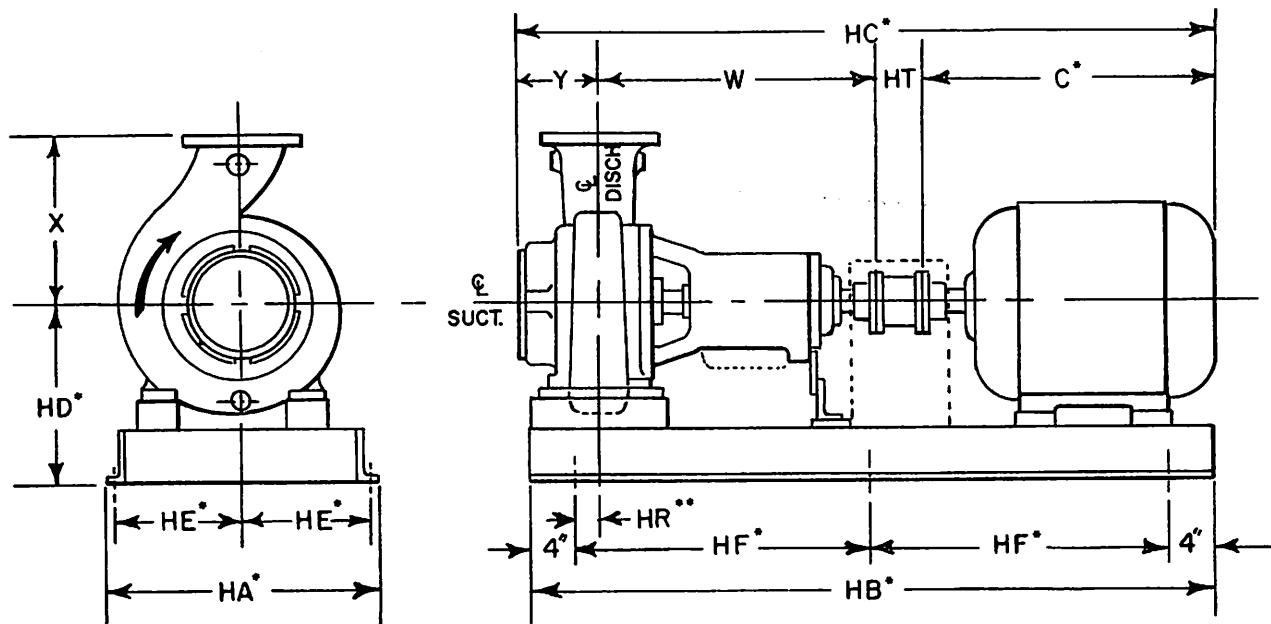
CROSS SECTION TYPE CHO



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		Dowel Pin
140	Deflector Disc	207-B	Gasket	262	Tabbed Lock Washer
154	Water Jacket Cover (option)	207-C	Gasket	271	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



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		10	8	36-1/16	17-1/2	5-1/4	26-1/16	18	7/8	72	32	13-1/4	30	74-3/8	7
10x10x15			10	45	18-1/2	5-3/4	26-5/16	20	1-3/8					85-1/16	
4x8x18	3	8	4	34-1/16	16-1/2	5	27-7/8	17-1/2	1/4	72	32	13-1/4	30	72-15/16	6
6x8x18			6	45	18	5-1/4	28-1/8	19	1/2					85-3/8	
8x12x18			8	57	19	6-1/8	29-3/16	20-1/2	1-1/4					100-5/16	
10x12x18		12	10	45	19-1/2	6-1/2	29-9/16	20-1/2	1-5/8	88	40	15	34	90-1/16	9
12x12x18			12	45-1/8	24	6-7/8	29-1/16	25-1/2	2-3/8					90-1/16	
6x10x22		10	6	45-1/8	20-1/2	6	31-5/8	22	7/8	88	40	15	34	90-3/4	8
10x12x22	4	12	10	47	23-1/2	7	32-1/2	25	2					95-1/2	
12x14x22			12	55-7/16	26	7-1/2	32-9/16	26-1/2	2-1/2					104-1/2	
14x16x22		16	14	53	29	8	32-9/16	29	3					103-9/16	
16x18x27			16	63-7/16	35	9-1/2	36-1/4	33	5	114	53	26	56	119-3/16	10
18x20x27	5	20	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

	3x6x12½	4x6x12½	6x8x12½	4x6x15	6x8x15	8x10x15	10x10x15	4x8x18	6x8x18	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. Spher-ical 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	3¾			4¼				4⅞					5½				6			
Depth	3¾			3¾				3¾					4⅞				4⅞			
Size of Packing	½												¾							
Number of Rings	4																			
Sleeve O.D. Packing	2¾			3¼				3½					4½				4¾			
Radial	6311			6315				6318					6320				6322			
Thrust	3311**			3313**				3316**					3318**				3320**			
Distance Rad. Brg. to Imp.	9⅞	9⅞	10⅞	10¾	10¾	11	11¼	10⅞	10⅞	11⅞	12¼	11¼	12⅞	13⅞	13¼	13¼	14⅞	14¼		
Distance be-tween Brngs	6½			7⅞				8⅞					9½				11			
Shaft Diameter at Impeller	1⅞			2¼				2½					3½				3¾			
Shaft Diameter at Coupling	1¾			2¼				2½					3½				3¾			
Shaft Diameter between Brgs	2¾			3¾				4					4½				5			
Hydrostatic Test Pressure	250																			
18-8 Stainless	250																			
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.

Bingham

Factories PORTLAND, OREGON ◻ SHREVEPORT, LOUISIANA ◻ VANCOUVER, BRITISH COLUMBIA ◻ CAMBRIDGE, ONTARIO