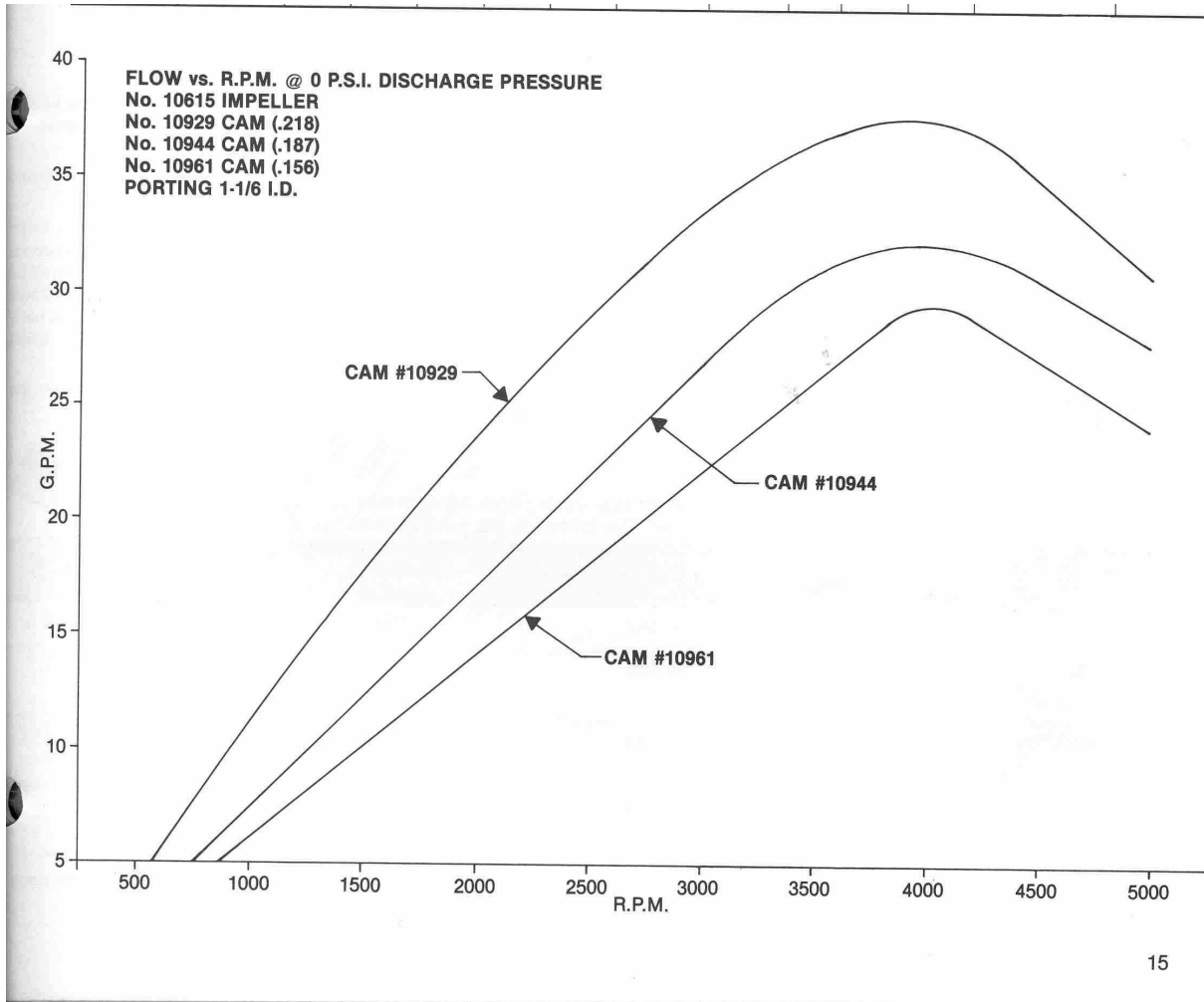


# Chris Craft Water Pumps

By Dick Morland

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Effects of different cams on pump output

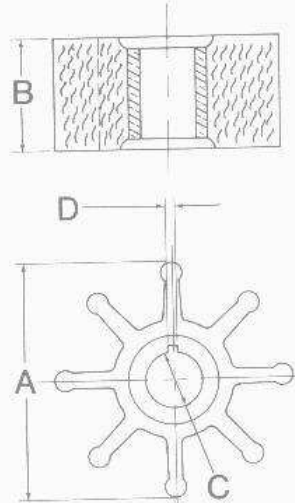
Sherwood pump Charts:

Engine Manufacturer Engine Model	Sherwood Pump Number	Pump Avail- ability	Replacement Pump	Parts Avail- ability	Repair Kits		Major Components					
					Minor	Major	Impeller	Seal & Seat Assembly	Bearing	Shaft	Cam	
<b>Chris-Craft Corporation</b>												
Model A Engine	G-8456* A-16	0 0	• •	3 1	• •	• 11223	• 9959	• 10927	• 4257	• 11149	• 10072	
Model B Engine	D-7704* D-7730* G-8450* K-9750G** M-10261G	0 0 0 0 0	M-10261G M-10261G M-10261G M-10261G	2 2 1 2 1	• • • • •	• • • • 10425 12244	• • • 9732 10077	7850 7850 7850 10546 10546	736 7736 4306 4306 4306	• • • • 10284	• • • • 10285	
Model K Engine	D-7669* D-7729* G-8451* K-9710** M-10262G	0 0 0 0 S	M-10262G M-10262G M-10262G M-10262G	2 2 1 2 1	• • • • •	• • • • 10424 12245	• • 5236/5237 9732 10314	7850 7850 7850 10546 10546	7736 7736 4306 4306 4306	• • • • 10312	• • 5803/5247 • 10313	
16.80-10007												
Model M Engine	D-7710* D-7731* G-8452* K-9635** M-10263G	0 0 0 0 S	M-10263G M-10263G M-10263G M-10263G	2 2 2 2 1	• • • • •	• • • • 10685 12246	• • 5236/5237 9731 9959	7850 7850 7850 10546 10545	7736 7736 4306 4306 4306	• • • • 10272	• • • • 10072	
16.80-10008												
Model W Engine	G-8453* K-9740** M-10264G	0 0 S	M-10264G M-10264G	3 2 1	• • •	• • 10685 12247	• 9731 9959	• 10545 10545	• 4257/12317 4257/12317	• • 10276	• • 10072	
16.80-10009												
Model 283	L-9980G* L-9910G** N-10160G** M-10095G N-10360GX	0 0 0 0 S	N-10360GX N-10360GX N-10360GX N-10360GX	2 2 2 1 1	• • • • •	• • • 10244 10244 12301	• • 9924 9924 (2) 10077 (2) 10077	10546 10546 10546 10546 10546	4306 4306 9742 4306 4306	• • • • 10078	• • • • 10122 10134	
16.80-10003												
Model 283M	L-9980G*	0	N-10360GX	2	•	•	•	10546	4306	•		
Model 283F	Q-10780* Q-10825CC Q-10830C	0 0 0	S-11095G	1 1 1	12821 12249 12249	12820 10557 10635	10763/10764 10577 10635	10545 10577 10577	7381 14055 14055			
Model 307-3270 16.80-18340	D-05 D-10C D-15CC	S S S		1 1 1	11430		10615 10635 10577	10927 10577 10577	4257 14055 14055	11429-A	10961	
Model 327-F	Q-10780* S-11095G Q-10825CC Q-10830C	0 S 0 0	S-11095G	2 1 1 1	12821 12308 12249 12249	12820 10615 10557 10635	10763/10764 10615 10577 10635	10545 10545 10577 10577	7381 7381 14055 14055	10959	10961	
Model 427 16.80-10010	S-11095G S-11110C S-11115CC	S 0 0		1 1 1	11102 12308	10615 10635 10577	10545 10577 10577	7381 14055 14055	10959	10961		
Model 430	N-10450* M-10080G** M-10200G N-10370G N-10360GX	0 0 0 0 S	N-10360GX N-10360GX N-10360GX N-10360GX	2 1 1 1 1	• 12800 12812 10245 10244 12301	• 10241 10245 10245 12301	• 9924 (2) 10077 (2) 10077 (2) 10077	10545 10546 10546 10546 10546	4257 4306 4306 4306 4306	10538/10539 • 10078 10078 10078	10134 10134 10134 10134	
Model 431	P-10670* N-10490CC N-10580C	0 0 0	N-10360GX Q-10825X Q-10830X	2 1 1	• • •	• • •	• 10557 10635	10545 10577 10577	4257 14055 14055	10672/10673		
Current Production Models 350 16.80-18346 454 16.80-18347	G-30-2 G-45-1	S S		1 1	12399 12394	12619 12619	9959 10615	12859 12859	(2) 12211 12211	12612 12612	10627 10944	
<b>Chrysler Marine</b>												
M-80 (CW) M-80 (CCW)	E-5913-M E-5839-M	0 0	P-10560G P-10710G	2 2	• •	• •	(2) 9959 (2) 9959	10545 10545	6204 6204	• •	(2) 10072 (2) 10072	
Slant 6	E-7783-M 2659553	0 0	P-10610G A-03	2 2	10685 11145	12252 12792	9959 9959	10545 10545	4257 4257	• •	10072 10072	
M225X	E-8542-M 2847632	0 S	D-10855G D-75	1 1	12818 10656	12933 12793	(2) 9959 (2) 9959	10545 10927	7381 4257	10501 11459	10627/10824 10627/10824	

# Flexible Impeller Reference

## FLEXIBLE IMPELLERS

PART NO.	DIAM. A	WIDTH B	SHAFT DIAM. C	KEYWAY D	NUMBER VANES	MATERIAL
9959 12337	2-7/16 (Same Size)	1-1/4	5/8	3/16	12	Neoprene Nitrile
15000	2-9/16	2	5/8	Spline	12	Neoprene
9979	1-9/16	3/4	3/8	Pinned	8	Neoprene
10077 12336	2-1/4 (Same Size)	3/4	1/2	3/32	12	Neoprene Nitrile
10187 12338	2-19/32 (Same Size)	2	5/8	3/16	9	Neoprene Nitrile
10314	2-1/4	1-1/4	1/2	1/8	10	Neoprene
10615 11843	2-9/16 (Same Size)	1-5/8	5/8	3/16	12	Neoprene Nitrile



As with any part, there is impeller care that will improve performance and add to impeller life, see following suggestions:

- At no time should the pump be run dry for any length of time. As excessive heat is generated by friction the impeller will swell and experience damage.
- **INITIAL START-UP:** To avoid impeller damage, after boat has been idle allowing pump chamber to dry, use a spray lubricant in pump chamber or prime pump to start-up.
- **WINTER STORAGE:** If boat is kept in area subject to freezing conditions:
  - (A) Drain all water from pump chamber.
  - (B) Winterize engine with anti-freeze. (See recommended Anti-Freeze.)
  - (C) **Glycerine** is excellent for winterizing pump chamber.
  - (D) If convenient, remove impeller to prevent impeller set-up and keep lubricated.
- **RECOMMENDED** Anti-Freeze: Zerex (Gulf Oil), Prestone II, a Permigard (Standard Oil) have been tested and do not cause impeller swell.
- **NEOPRENE IMPELLERS** are not to be used where liquid temperatures are below 40°F or above 130°F.
- **NITRILE IMPELLERS** can be used in higher temperatures. Swell will exist depending on degree of temperature but not as severe. **EXAMPLE:** At 180°F, Nitrile will swell in water .010 (one-half as much as Neoprene.) Swell at 180°F in 50% water and 50% Zerex is .006. One additional gasket to open clearance .006 would compensate for swell condition. Flow will be reduced with Nitrile Impeller by approximately 10%.
- Nitrile Impellers are identified visually by a "V" notch on the brass insert.

**VANE IMPELLER** Impeller vanes were used for raw water pump applications prior to the design of the flexible rubber impeller. The following are vane assemblies still available.

VANE ASSEMBLY NUMBER	VANE DESCRIPTION	NUMBER OF VANES PER SET	VANE PUMPS ASSEMBLIES
9731	1-1/4 length x 13/16 width x 1/8 thick	7 (8888)	K-9615G, K-9635G, K-9740G
9732	57/64 length x 13/16 width x 1/8 thick	7 (9716)	K-9710G, K-9750G, L-9790G, L-9810G
9745	1-1/4 length x 13/16 width x 1/8 thick	14 (8888)	K-9529G, L-9820G, L-9841G, L-9850G, L-9870G, L-9875G
9924	25/32 length x 11/16 width x 1/8 thick	16 (9915)	L-9910G, M-10080G, N-10160G

- Vanes are made from a neoprene rubber compound and subject to similar conditions as found under the flexible impeller listing.
- Vanes are packaged in sets and must be ordered by assembly number.