

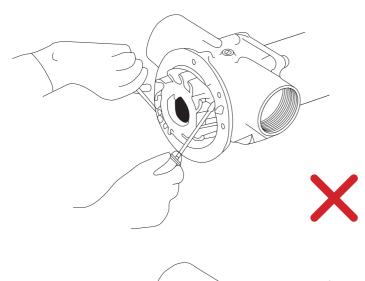


Jabsco - The Original Impeller

Jabsco flexible impellers can be fitted to most makes and models of bronze flexible impeller engine cooling, bilge, transfer and general purpose pumps.

Jabsco flexible impellers are subjected to rigorous quality processes to ensure reliable, efficient and long lasting performance.





Impeller Replacement - The Basics

Use Neoprene Impellers for engine c-ooling, and for fresh or salt water transfer duties. Neoprene is the most commonly used material and is suitable for use where only small amounts of oil or diesel fuel are present.

Use Nitrile Impellers for bilge pumping, and for transfer duties where the water is heavily contaminated, for example by oil or diesel. For diesel transfer duties, go to pages 45-46 and select a Jabsco Sliding Vane pump.

Replace all impellers at least once every year, or sooner, depending on the engine duty. When the installation is correct an impeller may last for several years, but it is always advisable to stick to a schedule of preventative, rather than corrective, maintenance.

Replacing impellers is easy. By removing the end cover screws, it is possible to remove the impeller by using either a Jabsco Impeller Removal Tool, or channel lock pliers, to grip the hub of the impeller. Don't use screwdrivers as they may damage the face of the pump body, causing leaks, and they can be dangerous in confined spaces.

Always carry spare impellers on board in case of emergency. The impeller is one of the most vital components of the engine cooling system and should always be treated as such.

Always grease new impellers. Firstly, it makes it easier to install the impeller into the pump bore, and secondly it gives added protection to the impeller during initial prime. After replacing the gasket and end cover the pump is ready to use.

Flexible Impeller Removal Tool

The Flexible Impeller Removal Tool is the easiest way to remove impellers, especially when the pump is mounted in tight and cramped conditions.

- Simple three stage operation easily removes the impeller.
- Removes the risk of expensive damage to the pump.
- Manufactured from corrosion resistant cast aluminium and stainless steel.
- Two models fit all impellers.

SIZE

 $6" \times 1" \times 8" \max (15cm \text{ wide } \times 2cm \text{ deep } \times 20cm \text{ high}).$

WEIGHT

1.1lb (0.5kg)

50070-0040

Suitable for impellers up to $2\frac{1}{2}$ " (65mm) diameter.

50070-0200

Suitable for impellers from 2½" (65mm) to 4½" (118mm) diameter.

50070-0080

Compact version suitable for impellers up to 21/4" (57mm) diameter.



IMPELLER PROFILES



Selecting your Jabsco Replacement Impeller

There are several ways of identifying the part number of the correct Jabsco impeller if you do not already know it.

- 1. If you have a Jabsco pump, the Jabsco impeller part number can be found on the Data Sheet that is delivered with each pump.
- 2. If you have a Jabsco pump, but no data sheet, and you know the full pump model number, go to pages 117-140, Pump Spares by Pump Model, and read off the correct Jabsco impeller part number.
- 3. If you have another brand of pump, and you know their impeller part number, go to page 141, Upgrade to a Jabsco Impeller, and check for a Jabsco Replacement Impeller part number.
- 4. If you have the impeller in front of you:

Identify the impeller profile Code Letter by placing the impeller on the profiles on pages 134-136.

- Go to pages 137-138, Selection Table by Profile.
- Measure the Depth (see Chart A).
- Identify the Drive (see Chart B).
- Measure the Shaft Diameter (see Chart A).
- Select the material.
- Read off the part number.
- 5. If you do not have the impeller in front of you, but you can ask someone who does:
- Go to pages 139-140, Selection Table by Dimensions.
- How many blades are there?
- What is the outside diameter? (see Chart A).
- What type of Drive is it? (see Chart B).
- What is the Depth? (see Chart A).
- What is the Shaft Diameter? (see Chart A).
- Which material do they need?
- Read off the part number.

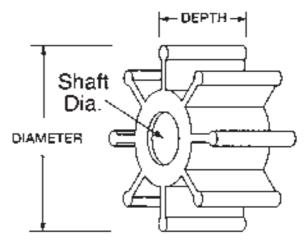


CHART A - Measuring Your Impeller



CHART B - Identifying the Impeller Drive

lr	mpeller		Drivo	Number		Dime	nsions	Shaft Di	Insert			
Туре	Number	Material	Drive Type	of Blades	Diam			dth			Material	
турс					in	mm	in	mm	in	mm		
	1414-0001-P	Neoprene	4	6	11/4	32	15/32	12	%6	8	Brass*	
Α	1414-0003-P	Nitrile	4	6	11/4	32	15/32	12	%6	8	Brass*	
	12104-0001B	Neoprene	2	6	11/4	32	15/32	12	5/16	8	Brass	
	21414-0001-P	Neoprene	4	6	1¼	32	15/32	12	%6	8	Brass	
	1.47F0.0001B	Neces		or use with Yar				12	5/	0	D*	
В	14750-0001B	Neoprene	4	8	11/4	32	15/32	12	%6	8	Brass*	
	14750-0003-P	Nitrile	4	8	1¼	32	15/32	12	%6	8	Brass*	
	14609-0001B	Neoprene	4	6	1¼	32	15/32	12	5/16	8	Brass*	
С	14609-0003	Neoprene	4	6	11/4	32	15/32	12	5/16	8	Brass*	
	14787-0001B	Neoprene	4	6	1¼	32	15/32	12	5/6	8	Plastic*	
СС	31130-0061-P	Neoprene	7	10	21%2	66	211/16	68	%	16	Brass‡‡	
	4528-0001-P	Neoprene	1 or 2	6	1%6	40	3/4	19	3/8	9,5	Brass	
D	4528-0003-P	Nitrile	1 or 2	6	1%6	40	3/4	19	3/8	9.5	Brass	
	17255-0003-P	Nitrile	_	6	1%6	40	3/4	19	1/4	6.4	None†	
	22405-0001-P	Neoprene	1	6	1%6	40	3/4	19	15/32	12	Brass	
	9200-0011B	Neoprene	4	10	1%6	40.5	3/4	19	%6	8	Plastic*	
F	9200-0003B	Nitrile	4	10	11%2	40.5	3/4	19	5/16	8	Plastic*	
	9200-0021B	Neoprene	4	10	11%2	40.5	3/4	19	5/16	8	Brass	
	9200-0023-P	Nitrile	4	10	111%2	40.5	3/4	19	%6	8	Brass	
	653-0001-P	Neoprene	1	6	2	51	7/8	22	15/32	12	Brass	
	673-0001-P Neoprene 1 or 2 6 2 51 ½ 22 ½ 12.7 Brass (673-Series Impellers may be replaced with the newer 18673-Series – See Impeller Type I)											
				•								
G	4527-0003B	Nitrile	2	6	2	51	7/s	22	5/16	8	None	
	5616-0001-P	Neoprene	6	6	2	51	7/8	22	1/2	12.7	Brass	
	7273-0001-P	Neoprene	4	6	2	51	7/8	22	%6	8	Plastic	
	7273-0003-P	Nitrile	4	6	2	51	7/8	22	%6	8	Plastic	
	22799-0001-P	Neoprene	3	6	2	51	%	22	1/2	12.7	Brass	
GG	18958-0001-P	Neoprene	3	12	3¼	82.5	257/64	73.4	25/32	21	Brass	
	6303-0001-P	Neoprene	4	6	2	51	7/8	22	5√6	8	Plastic	
Н	6303-0003-P	Nitrile	4	6	2	51	7/8	22	%6	8	Plastic	
	6303-0007-P	Urethane	4	6	2	51	7/8	22	%6	8	Plastic	
	17486-0001	Neoprene	6	6	2	51	%	22	1/2	12.7	Brass**	
НН	18777-0001-P	Neoprene	7	10	2¼	57	2	51	%	16	Brass	
	18653-0001-P	Neoprene	1	10	2	51	7/8	22	%₂	12	Brass	
I	18673-0001-P	Neoprene	1 or 2	10	2	51	7/8	22	1/2	12.7	Brass	
	18673-0003-P	Nitrile	1 or 2	10	2	51	7/8	22	1/2	12,7	Brass	
	1210-0001-P	Neoprene	7	12	2¼	57	1¼	31.5	%	16	Brass	
	1210-0003-P	Nitrile	7	12	2¼	57	1¼	31.5	%	16	Brass	
	4568-0001-P	Neoprene	3	12	2¼	57	1¼	31.5	%	16	Brass	
	4568-0003-P	Nitrile	3	12	21/4	57	1¼	31.5	%	16	Brass	
K	5929-0001-P	Neoprene	6	12	2¼	57	1¼	31.5	1/2	12.7	Brass	
	5929-0003-P	Nitrile	6	12	21/4	57	11/4	31.5	1/2	12,7	Brass	
	13554-0001-P	Neoprene	7	12	21/4	57	1 ² % ₂	48.4	%	16	Brass	
	14281-0001-P	Neoprene	5	12	2¼	57	1¼	31.5	%	16	Plastic	
	22120-Series	Neoprene	7	12	21/4	57	2	51	%	16	Brass	
	-	120-Series Imp		y be replaced	with the		77-Series -	•				
L	3085-0001-P	Neoprene	7	10	2¼	57	1¼	31.5	1/2	12.7	Brass	



SELECTION TABLE BY PROFILE

Impeller			Drive	Number			nsions		Shaft Di	ameter	Insert
Туре	Number	Material	Type	of Blades		Diameter Width					
туре			-71		in	mm	in	mm	in	mm	Material
	920-0001-P	Neoprene	7	8	2%6	65	2	51	%	16	Brass
	920-0003-P	Nitrile	7	8	2%6	65	2	51	5/8	16	Brass
	920-0008B	Natural Rubber	7	8	2%6	65	2	51	%	16	Brass‡
М	4598-0001-P	Neoprene	3	8	2%6	65	2	51	%	16	Brass
141	4598-0003-P	Nitrile	3	8	2%6	65	2	51	%	16	Brass**
	6056-0003-P	Nitrile	6	8	2%6	65	2	51	%	16	Brass**
	11979-0001-P	Neoprene	7	8	2%6	65	1 ¾6	36.5	%	16	Brass
	17018-0001-P	Neoprene	7	8	2%6	65	3	76.2	%	16	Brass
	836-0001-P	Neoprene	7	9	3¾	95	2½	63	1	25.4	Brass
	836-0003-P	Nitrile	7	9	3¾	95	2½	63	1	25.4	Brass
0	836-0008-P	Natural Rubber	7	9	3¾	95	2½	63	1	25.4	Brass‡
	6760-0001B	Neoprene	7	9	3¾	95	3½	88.9	1	25.4	Bras
	6760-0003-P	Nitrile	7	9	3¾	95	3½	88.9	1	25.4	Brass
	17370-0001-P	Neoprene	5	12	3¾	95	3½	88.9	1	25.4	Plastic
Q	17935-0001-P	Neoprene	7	12	3¾	95	2½	63	1	25.4	Brass
٧	17936-0001-P	Neoprene	7	12	3¾	95	3½	88.9	1	25.4	Brass
	17938-0001-P	Neoprene	7	12	3¾	95	3¾	95	1	25.4	Brass
	17240-0001B	Neoprene	7	9	4%	118	3½	88.9	1	25.4	Brass
R	18786-0001B	Neoprene	5	9	4%	118	3½	88.9	1	25.4	Plastic
	18789-0001	Neoprene	7	9	4%	118	3½	88.9	1	25.4	Brass
U	2999-0001B	Neoprene	7	13	5	127	4	101.6	1 1/2	38	Brass
W	18838-0001-P	Neoprene	3	12	2 %6	62	1¼	31.5	5∕8	16	Brass††
Х	18948-0001-P	Neoprene	3	12	2%	65	1%	41.4	5⁄8	16	Brass††
	17937-0001-P	Neoprene	7	10	2%6	65	2	51	%	16	Brass
	17937-0003-P	Nitrile	7	10	2%6	65	2	51	%	16	Brass
Y	17954-0001-P	Neoprene	4	10	2%6	65	2	51	3/4	19	Brass‡‡
	17956-0001-P	Neoprene	6	10	2%	65	2	51	%	16	Brass
	18327-0001-P	Neoprene	3	10	2%6	65	2	51	%	16	Brass††
Z	30919-0001	Neoprene	5	12	31/46	77	3	76.2	13/16	20	Brass

^{*} Insert material was different

[†] Impeller molded on shaft ‡ For low temperature to 27°F (120°F (max))

^{**} Extended Drive sleeves

^{††} Sherwood replacement Impeller ‡‡ Mercruiser replacement

SELECTION TABLE BY PROFILE

	Dimensions				Shaft Dir	nensions				Impeller		
Number of Blades		neter	Drive	Diameter			dth	– Material	Insert			
of Blades	in	mm	Туре	in	mm	in	mm		Material	Number	Type	
6	1¼	32	4	15/32	12	%6	8	Neoprene	Brass*	1414-0001-P	А	
	1¼	32	4	15/32	12	%6	8	Nitrile	Brass*	1414-0003-P	Α	
	1¼	32	2	15/32	12	%6	8	Neoprene	Brass	12104-0001B	Α	
	1¼	32	4	15/32	12	%6	8	Neoprene	Brass	21414-0001-P	Α	
	1¼	32	4	15/32	12	%6	8	Neoprene	Brass*	14609-0001B	С	
	1¼	32	4	15/32	12	%6	8	Neoprene	Brass*	14609-0003	С	
	1¼	32	4	15/32	12	%6	8	Neoprene	Plastic*	14787-0001B	С	
	1%6	40	1 or 2	3/4	19	¾	9.5	Neoprene	Brass	4528-0001-P	D	
	1%	40	1 or 2	3/4	19	¾	9.5	Nitrile	Brass	4528-0003-P	D	
	1%	40	-	3/4	19	1/4	6.4	Nitrile	None†	17255-0003-P	D	
	1%	40	1	3/4	19	15/32	12	Neoprene	Brass	22405-0001-P	D	
	2	51	1	7∕8	22	15/32	12	Neoprene	Brass	653-0001-P	G	
	2	51	1 or 2	7∕8	22	1/2	12.7	Neoprene	Brass	673-0001-P	G	
	2	51	2	7∕8	22	%6	8	Nitrile	None	4527-0003B	G	
	2	51	6	7∕8	22	1/2	12.7	Neoprene	Brass	5616-0001-P	G	
	2	51	4	7∕8	22	%6	8	Neoprene	Plastic	7273-0001-P	G	
	2	51	4	7∕8	22	%6	8	Nitrile	Plastic	7273-0003-P	G	
	2	51	3	7∕8	22	1/2	12.7	Neoprene	Brass	22799-0001-P	G	
	2	51	4	7∕8	22	%6	8	Neoprene	Plastic	6303-0001-P	Н	
	2	51	4	7∕8	22	%6	8	Nitrile	Plastic	6303-0003-P	Н	
	2	51	6	7∕8	22	1/2	12.7	Neoprene	Brass**	17486-0001	Н	
8	1¼	32	4	15/32	12	%6	8	Neoprene	Brass*	14750-0001B	В	
	11/4	32	4	15/32	12	%6	8	Nitrile	Brass*	14750-0003-P	В	
	2%6	65	7	2	51	5%	16	Neoprene	Brass	920-0001-P	M	
	2%6	65	7	2	51	%	16	Nitrile	Brass	920-0003-P	М	
	2%6	65	7	2	51	%	16	Natural Rubber	Brass‡	920-0008B	M	
	2%6	65	3	2	51	5%	16	Neoprene	Brass	4598-0001-P	М	
	2%6	65	3	2	51	5%	16	Nitrile	Brass**	4598-0003-P	M	
	2%6	65	6	2	51	5⁄8	16	Nitrile	Brass**	6056-0003-P	М	
	2%6	65	7	1 %6	36.5	%	16	Neoprene	Brass	11979-0001-P	М	
	2%6	65	7	3	76.2	5%	16	Neoprene	Brass	17018-0001-P	М	
9	3¾	95	7	2 ½	63	1	25.4	Neoprene	Brass	836-0001-P	0	
	3¾	95	7	2 ½	63	1	25.4	Nitrile	Brass	836-0003-P	0	
	3¾	95	7	2 ½	63	1	25.4	Natural Rubber	Brass‡	836-0008-P	0	
	3¾	95	7	3½	88.9	1	25.4	Neoprene	Brass	6760-0001B	0	
	3¾	95	7	3½	88.9	1	25.4	Nitrile	Brass	6760-0003-P	0	
	4%	118	7	3½	88.9	1	25.4	Neoprene	Brass	17240-0001B	R	
	4%	118	5	3½	88.9	1	25.4	Neoprene	Plastic	18786-0001B	R	
	4%	118	7	3½	88.9	1	25.4	Neoprene	Brass	18789-0001	R	



SELECTION TABLE BY DIMENSIONS

	Dimensions				Shaft Dir	nensions				Impeller		
Number of Blades	Diar	neter	Drive Type	Diameter		Wid	dth	Material	Insert Material			
Of blades	in	mm] 'ype	in	mm	in	mm		Material	Number	Туре	
10	21%2	66	7	211/16	68	%	16	Neoprene	Brass‡‡	31130-0061-P	CC	
	1 1%2	40.5	4	3/4	19	5∕16	8	Neoprene	Plastic*	9200-0011B	F	
	1 1%2	40.5	4	3/4	19	5/16	8	Nitrile	Plastic*	9200-0003B	F	
	1 1%2	40.5	4	3/4	19	%6	8	Neoprene	Brass	9200-0021B	F	
	11%2	40.5	4	3/4	19	5√16	8	Nitrile	Brass	9200-0023-P	F	
	21/4	57	7	2	51	%	16	Neoprene	Brass	18777-0001-P	НН	
	2	51	1	7∕8	22	5/32	12	Neoprene	Brass	18653-0001-P	_	
	2	51	1 or 2	7∕8	22	1/2	12.7	Neoprene	Brass	18673-0001-P	L	
	2	51	1 or 2	7∕8	22	1/2	12.7	Nitrile	Brass	18673-0003-P	_	
	21/4	57	7	11/4	31.5	1/2	12.7	Neoprene	Brass	3085-0001-P	L	
	2%6	65	7	2	51	%	16	Neoprene	Brass	17937-0001-P	Υ	
	2%6	65	7	2	51	%	16	Nitrile	Brass	17937-0003-P	Y	
	2%	65	4	2	51	3/4	19	Neoprene	Brass‡‡	17954-0001-P	Υ	
	2%6	65	6	2	51	%	16	Neoprene	Brass	17956-0001-P	Υ	
	2%6	65	3	2	51	%	16	Neoprene	Brass††	18327-0001-P	Υ	
12	3¼	82.5	3	257/64	73.4	25/32	21	Neoprene	Brass	18958-0001-P	GG	
	21/4	57	7	1¼	31.5	%	16	Neoprene	Brass	1210-0001-P	K	
	21/4	57	7	1¼	31.5	%	16	Nitrile	Brass	1210-0003-P	K	
	21/4	57	3	1¼	31.5	%	16	Neoprene	Brass	4568-0001-P	K	
	21/4	57	3	1¼	31.5	%	16	Nitrile	Brass	4568-0003-P	K	
	21/4	57	6	1¼	31.5	1/2	12.7	Neoprene	Brass	5929-0001-P	K	
	21/4	57	6	1¼	31.5	1/2	12,7	Nitrile	Brass	5929-0003-P	K	
	21/4	57	7	12%2	48.4	%	16	Neoprene	Brass	13554-0001-P	K	
	21/4	57	5	1¼	31.5	%	16	Neoprene	Plastic	14281-0001-P	K	
	21/4	57	7	2	51	%	16	Neoprene	Brass	22120-Series	K	
	3¾	95	5	3%6	88.9	1	25.4	Neoprene	Plastic	17370-0001-P	Q	
	3¾	95	7	2%6	63	1	25.4	Neoprene	Brass	17935-0001-P	Q	
	3¾	95	7	3%	88.9	1	25.4	Neoprene	Brass	17936-0001-P	Q	
	3¾	95	7	3¾	95	1	25.4	Neoprene	Brass	17938-0001-P	Q	
	2%6	62	3	1¼	31.5	%	16	Neoprene	Brass††	18838-0001-P	W	
	2%6	65	3	1%	41.4	%	16	Neoprene	Brass††	18948-0001-P	Х	
	31/16	77	5	3	76.2	13/16	20	Neoprene	Brass	30919-0001	Z	
13	5	127	7	4	101.6	1½	38	Neoprene	Brass	2999-0001B	U	

UPGRADE TO A JABSCO IMPELLER

Jabsco	Volvo	Yanmar	Yamaha	Johnson	Sherwood	Vetus	Mercruiser	Crusader	Ancor	CEF	Oberdorfer	Onan	Perkins USA
653-0001				09 - 810B		IMP00801				500101			
673-0001	804696 / 897055 / 875808-8			09-1026B						500116			
673-0003				09-1026B-9						500216			
836-0001				09-1029B		IMP00901			J050005	500105			
836-0003				09-1029B-9					J050405	500205			
920-0001	801277 / 825941 / 877061-2			09-1028B					500106				
920-0003										500206			
1133-0001				09-1028B-9					J050001				
1210-0001	860203 / 3856039-7 / 875811-2	129470-42530		09-1027B		IMP00201			J050007	500107		132-0162	0460038
1210-0003				09-1027B-9					J050407	500207			
3085-0001													24880190
4528-0001	803729 / 875807-0 / 876554-7	104211-42070		09-806B	9979	IMP00501			J050010	500100		132-0859	24990272
4528-0003										500201			
4568-0001	831182 / 875575-3	124310-46090		09-801B						500108			
4568-0003										500208			
4598-0001										500102	6603		
4598-0003										500202			
6303-0001										500110	6617		
6303-0003				09-824P					J050011	500210			
6760-0001				09-802B					JP50015	500145			
6760-0003										500245			
13554-0001				09-812B									
17935-0001	875660 875736-1 825942 807904			09-819B							J050035	500135	7054
17935-0003				09-819B-9					J050435				
17936-0001	875814-6 875697 845796 844683 842857			09-814B		IMP00801			J050045	500145			0460027
17937-0001	801277 / 825941 / 877061-2	127610-42200		09-1028B	18200	IMP00301			J050009	500114	7441		0460024 / 24880031
17937-0003													
17954-0001*							47-59362			500214			
18327-0001					15000								
18673-0001													24880194
18838-0001	835512 - 5		YSC-101-03-01-0C		9959			1003026	J050003	500103	132-0317	132-0117/ 24880178	NA900010 /
18948-0001	835874-9		6TA-12457-00		10615			20300	J050020	500120	8922		NA900012
18958-0001													
21414-0001		128170-42070							J050013	500113			
22120-0001	834794 876120 - 7								J050022	500104			
22405-0001	875583 - 7 / 833995			09-808B		IMP00601			J050021	500121			
22799-0001		124223-42091				IMP00101			J050016	500129			
31130-0061							47-831311350						

^{*}Has single flat drive not spline

TROUBLE SHOOTING GUIDE

JABSCO

Trouble Shooting 1

Symptons:

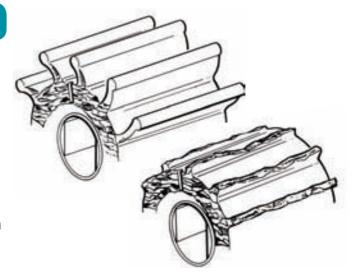
- End faces hard and either polished or cracked, like carbon.
- Some or all blades completely missing.

Cause:

- Dry running, lack of water in pump.
- Temporary suction blockage.
- Leaking suction plumbing.

Remedy:

- Do not run pump for more than 20 seconds without liquid.
- Install a liquid sensor/temperature alarm.
- Check suction plumbing, strainers, and thru-hull fittings for blockages and leakage.
- Arrange discharge plumbing to trap liquid in the pump.



Trouble Shooting 2

Symptons

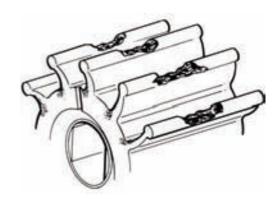
- Pieces missing from the middle of blade tips.
- Blade edges are hollowed out.
- Pitting is evident on cam and the inside of pump ports, and on ends of impeller.

Cause:

 Cavitation, i.e. too much vacuum on inlet is causing water to boil inside pump.

Remedy:

- Reduce pump speed.
- Increase inlet plumbing diameter.
- Reduce inlet plumbing length and remove unnecessary restrictions.
- Reduce cam thickness.



Trouble Shooting 3

Symptons:

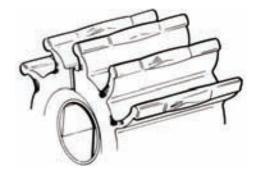
- Worn blade tips, cam imprint on edges.
- Worn end faces.
- Worn impeller drive and shaft wear.

Cause

- Abrasive wear from fluid in pump.
- Heat exchanger/cooler blockage.
- High discharge pressure.

Remedy

- Check discharge plumbing for partial blockages.
- Increase discharge pipe diameter.



Trouble Shooting 4

Symptons:

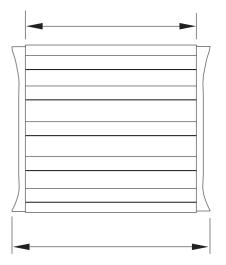
- Impeller appears to have swollen.
- Blades appear wider than impeller hub.
- Rubber may feel sticky.

Cause:

• Chemical attack, more common with oily bilge water or diesel transfer.

Remedy:

- Ensure impeller is rinsed after use.
- Remove impeller when not in use.
- Remove impeller for long term storage.



Trouble Shooting 5

Symptons:

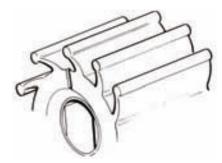
• Blades have some or severe permanent set.

Cause:

- Normal use of impeller.
- Long term storage in pump.
- Normal end of impeller life.

Remedy:

- Refit impeller to rotate in opposite direction.
- Remove impeller for long term storage.
- Replace impeller.



Trouble Shooting 6

Symptons:

- Blades cracked about half way up the length.
- Some of blades missing.
- Reduced flow.

Cause

- Normal end of impeller life.
- High discharge pressure.

Remedy:

- Replace impeller, check for impeller pieces in discharge plumbing.
- Reduce outlet restrictions or increase outlet plumbing diameter.

