



REPLACEMENTS FOR  
JOHNSON PUMP  
SHERWOOD / MERCUISER / JABSCO

# Impeller Replacement Kits

FOR ENGINE WATER COOLING PUMPS



 **Johnson Pump®**

Second to an actual mechanical failure of the engine itself, a malfunction of the engine cooling pump would lead to catastrophic results. SPX's Johnson Pump engine cooling pumps are designed to the demands of engine manufacturers and are built to take rough treatment.

SPX supplies engine cooling pumps to the world's leading marine motor manufacturers, not just because of our renowned pumps; but also because of the heart of an engine cooling pump: the impeller.

This seemingly unassuming bit of rubber sees to it that the engine always has a sufficient flow of cooling water. If the impeller doesn't do its job, either through wear and tear, fatigue or wrong dimension, you could be left dead in the water with the likelihood of a significant engine repair bill in your near future.

The Johnson Pump brand is synonymous with outstanding impeller performance and quality.

Based in Charlotte, North Carolina, SPX is a multi-industry manufacturing company with operations in more than 35 markets worldwide, approximately \$5 billion in annual revenue and more than 14,000 employees.

SPX's innovative, world-class products and highly-engineered solutions are helping to meet the needs of a constantly developing world and growing global population. You'll find our innovative solutions in everything from dairy plants and power plants to oil and gas pipelines, the power grid and bus fare collection systems. SPX is really everywhere you look.

We help our customers around the globe expand and enhance their food and beverage, power and energy and industrial production processes.

## Impeller replacement kits

### Lasting quality with SPX Johnson Pump brand impellers

For the well-being of your boat engine your water cooling pump must be able to supply a minimum specified continuous flow of cooling water. The flexible impeller in your pump, which provides this pumping action, is a wear part. Over time the impeller will lose its ability to maintain the pressure needed for the flow of cooling water and must be replaced.

A good quality impeller will provide you with many months of problem-free operation. For an impeller of lesser quality the performance can degrade so rapidly that you, at best, must replace the impeller more often; at worst, you could be left adrift with engine damage.

SPX engineers Johnson Pump impellers for outstanding performance!

## What makes Johnson Pump *the* original and replacement impeller of choice?

With SPX Johnson Pump you get:

### PERFORMANCE

#### STABLE PRESSURE DELIVERY OVER TIME

- Ensures correct cooling flow
- Significantly longer service life...in some applications up to 4x longer than the competition (at a given duty cycle).

#### EXCELLENT SELF-PRIMING CAPABILITY

- Ensures sufficient cooling directly at start up

#### CORRECT IMPELLER DIMENSIONS

- Our impellers are manufactured to strict tolerances for optimal functionality

#### UNIQUE MC97 RUBBER COMPOUND

- Ensures flexibility for self-priming capabilities and minimizes failure due to fatigue (broken blades). Provides stronger bonding to avoid hub slip.

### DEVELOPMENTAL KNOW-HOW

With its Johnson Pump brand SPX is an original manufacturer of world class impellers for more than 40 years

- More than 125 years of accumulated engineering time.
- Documented, standardized testing
- Continuous quality testing, annually 150,000 test hours
- In excess of 150,000 hours testing of our MC97 rubber compound

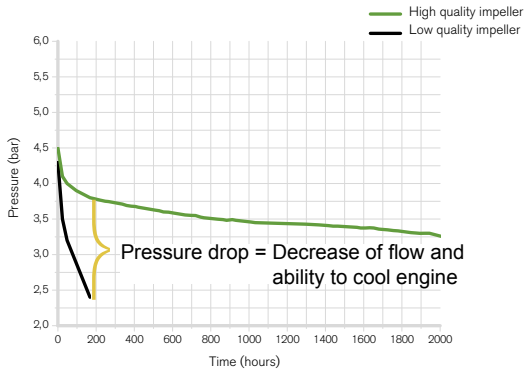
### MARINE COMPOUND 97 (RUBBER COMPOUND MC97)

One of our secrets for success is our rubber compound MC97; optimized to provide maximum life, especially for applications where the end user doesn't run the engine on a regular basis:

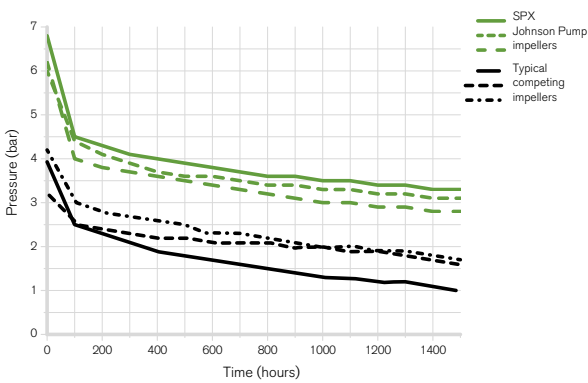
- Stable pressure delivery over time
- Minimized failures due to fatigue
- Minimized swelling

(Always use JP original Impeller lube since many rubber compounds are sensitive to petroleum products.)

**PRESSURE DROP OVER TIME FOR HIGH QUALITY AND LOW QUALITY IMPELLERS**



**PRESSURE DROP OVER TIME FOR JOHNSON PUMP AND TYPICAL COMPETING IMPELLERS**



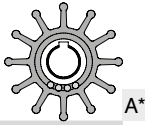
**SHERWOOD / MERCURISER REPLACEMENT PROGRAM**

Sherwood / Mercrusier owners can now take advantage of premium replacement impellers from SPX Johnson Pump; documented superior to the competition. We do not venture into this market lightly. We have prepared ourselves well.

- Engineering time in excess of 2000 hours
- More than 80,000 hours of continuous testing
- Manufactured from our MC97 rubber compound

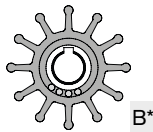
**Impeller Replacement Kits for Sherwood / Mercruiser / Jabsco**

| SPX JP PART NO. | SHERWOOD PART NO. | MERCURISER PART NO. | JABSCO PART NO. |
|-----------------|-------------------|---------------------|-----------------|
| 09-701B-1       | 9959K             | -                   | 18948-0001      |



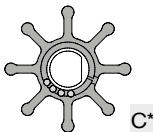
| ENGINES / PUMPS  |  |  |  |
|--|--|--|--|
| Chris Craft; Chrysler Marine; Commander; Crusader; Glastron Boat Co.; Gray Marine; Interceptor; Onan; OMC; Pathfinder VolksWagon Eng.; Perkins Eng. U.S.; Plesurecraft Marine; Universal Medalist; Volvo Penta; Yamaha; Westerbeke 24102; Sherwood 11353; Pleasure Craft 302&351; Chris Craft 350; Onan MDL3,4 |  |  |  |

| SPX JP PART NO. | SHERWOOD PART NO. | MERCURISER PART NO. | JABSCO PART NO. |
|-----------------|-------------------|---------------------|-----------------|
| 09-702B-1       | 10615K            | -                   | 17954-0001      |



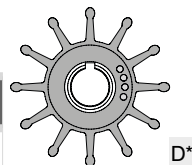
| ENGINES / PUMPS  |  |  |  |
|--|--|--|--|
| Chris Craft; Chrysler Marine; Commander; Crusader; Escort (Skiltec); Gray Marine; Isuzu; Lenco; Marine Power; North American Engine; Onan; Osco Motors; OMC; Perkins Engine U.S.; Plesurecraft Marine; Volvo Penta; J.H. Westerbeke Corp; Crusader 97179; Chrysler 3675763; Chrysler 4142878; Cummins 4B; Onan MDL6; Chris Craft 454; Pleasure Craft 454 |  |  |  |

| SPX JP PART NO. | SHERWOOD PART NO. | MERCURISER PART NO. | JABSCO PART NO. |
|-----------------|-------------------|---------------------|-----------------|
| 09-703P-1       | -                 | 47-59362T           | 18838-0001      |



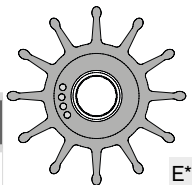
| ENGINES / PUMPS                     |  |  |  |
|-------------------------------------|--|--|--|
| Pump Quicksilver Model 46-72774 A32 |  |  |  |

| SPX JP PART NO. | SHERWOOD PART NO. | MERCURISER PART NO. | JABSCO PART NO. |
|-----------------|-------------------|---------------------|-----------------|
| 09-704BT-1      | 17000K            | -                   | 18958-0001      |



| ENGINES / PUMPS   |  |  |  |
|---|--|--|--|
| Cummins 6B 300Hp B Series; Cummins C Series; CAT 3208; CAT 3116; CAT 3126; Deere 6076; Sherwood Pump P17 series |  |  |  |

| SPX JP PART NO. | SHERWOOD PART NO. | MERCURISER PART NO. | JABSCO PART NO. |
|-----------------|-------------------|---------------------|-----------------|
| 09-705BT-1      | 18000K            | -                   | -               |

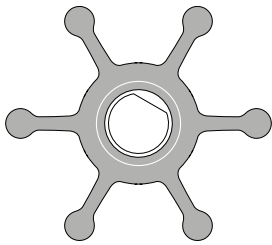


| ENGINES / PUMPS          |  |  |  |
|--------------------------|--|--|--|
| Sherwood Pump P18 Series |  |  |  |

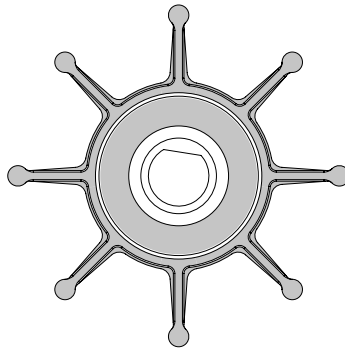
\*see page 7 for impellers in scale 1 : 1

# SPX's Johnson Pump Marine Brand Original Impellers

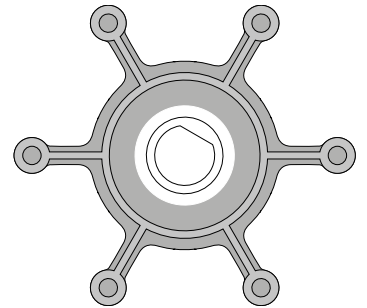
SCALE 1:1



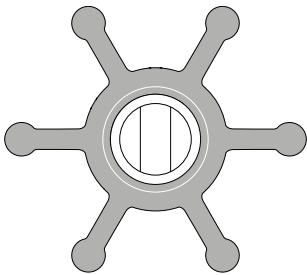
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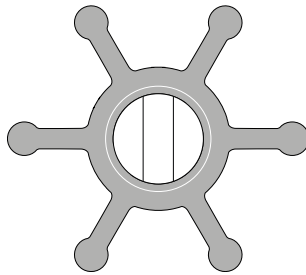
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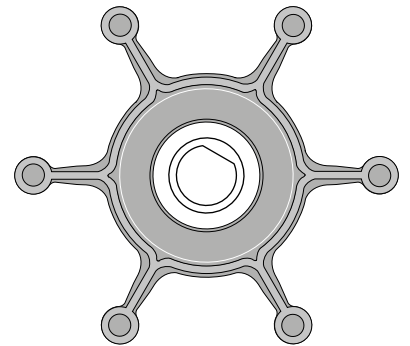
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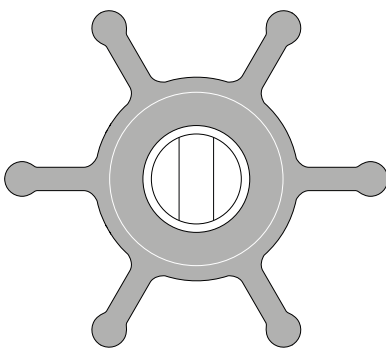
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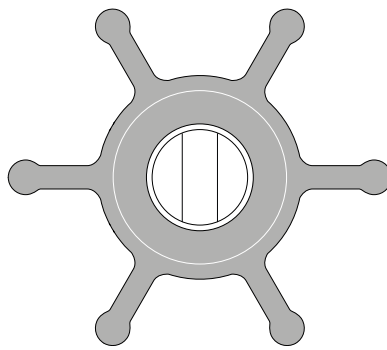
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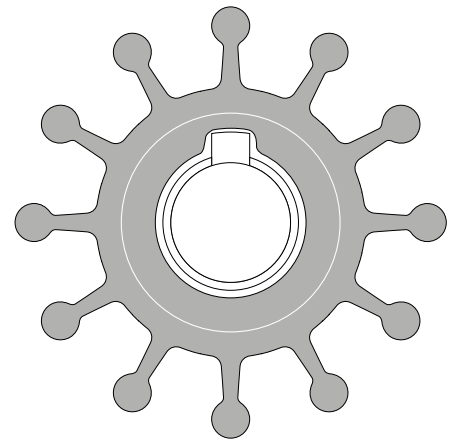
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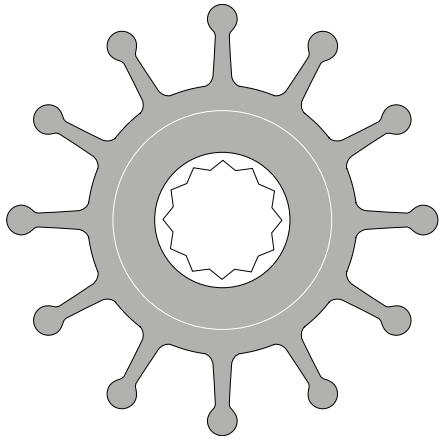
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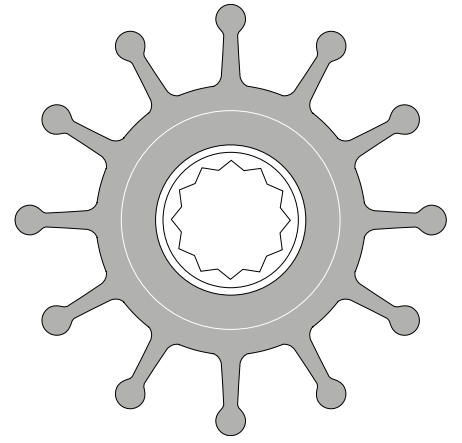
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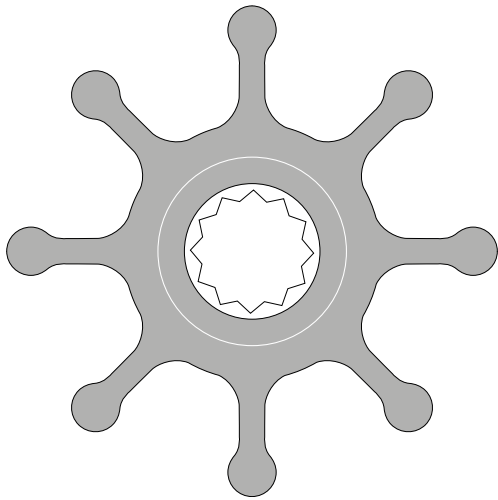
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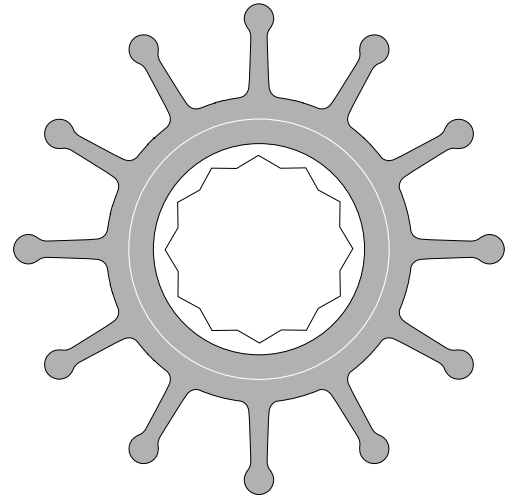
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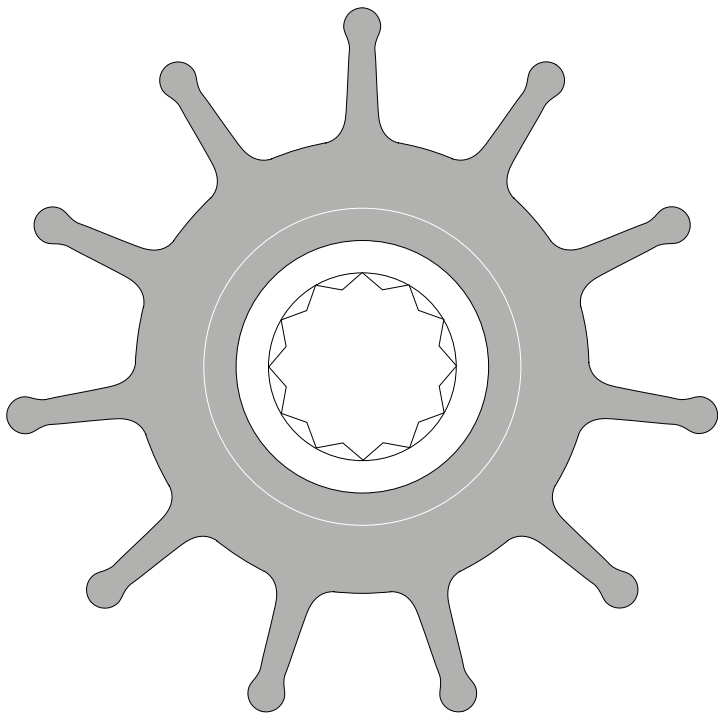
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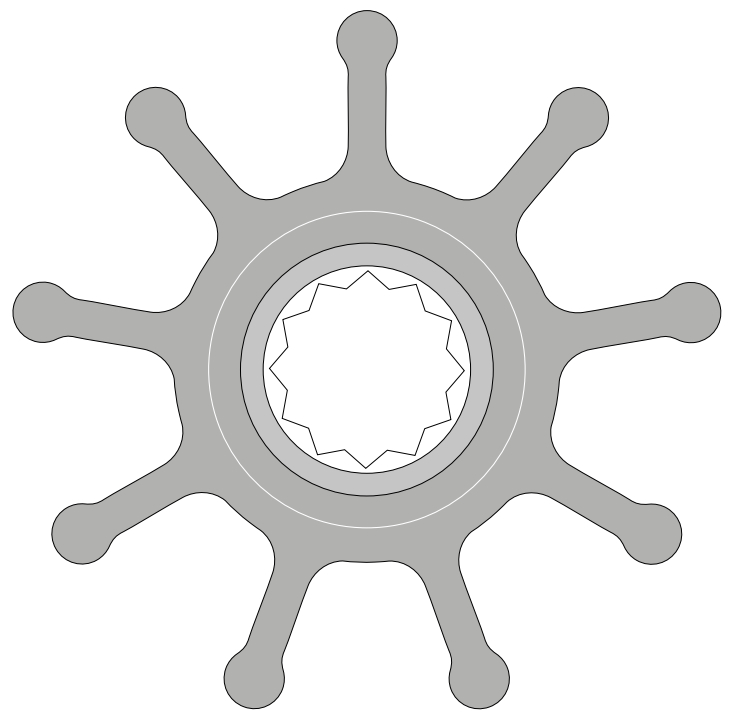
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13



14



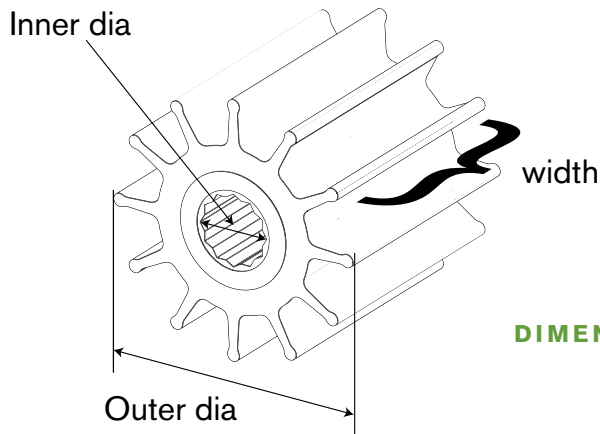
15

# SPX's Johnson Pump Marine Brand Original Impellers

| REF. | PUMP   | IMPELLER               | MATERIAL* | OUTER DIA |      | INNER DIA  |             | WIDTH |      | REPLACES JABSCO NO |            |
|------|--------|------------------------|-----------|-----------|------|------------|-------------|-------|------|--------------------|------------|
|      |        |                        |           | MM        | INCH | MM         | INCH        | MM    | INCH | EUROPE             | USA        |
| 1    | F2     | 09-1077B-9             | NITRILE   | 35.2      | 1.29 | 8.0 / FLAT | 0.31 / FLAT | 12.7  | 0.50 |                    |            |
| 2    | F3     | 09-843S-9              | NITRILE   | 45.2      | 1.78 | 8.0 / FLAT | 0.31 / FLAT | 12.8  | 0.50 |                    |            |
| 3    | TA3P10 | 09-1052S-9             | NITRILE   | 45.2      | 1.78 | 8.0 / FLAT | 0.31 / FLAT | 12.8  | 0.50 |                    |            |
| 4    | F35    | 09-806B-1              | MC97      | 40.0      | 1.58 | 9.5        | 0.37        | 19.0  | 0.75 | 4528-0001          |            |
| 5    | F35    | 09-808B-1              | MC97      | 40.0      | 1.58 | 12.0       | 0.47        | 19.0  | 0.75 | 22405-0001         |            |
| 6    | F4     | 09-824P-1              | MC97      | 50.8      | 2.00 | 8.0 / FLAT | 0.31 / FLAT | 22.0  | 0.87 |                    |            |
| 6    | F4     | 09-824P-9              | NITRILE   | 50.8      | 2.00 | 8.0 / FLAT | 0.31 / FLAT | 22.0  | 0.87 | 6303-0003          |            |
| 7    | F4     | 09-810B-1              | MC97      | 50.8      | 2.00 | 12.0       | 0.47        | 22.0  | 0.87 | 18653-001          |            |
| 7    | F4     | 09-810B-9              | NITRILE   | 50.8      | 2.00 | 12.0       | 0.47        | 22.0  | 0.87 |                    |            |
| 8    | F4     | 09-1026B-1             | MC97      | 50.8      | 2.00 | 12.7       | 0.50        | 22.0  | 0.87 | 673-0001           |            |
| 8    | F4     | 09-1026B-9             | NITRILE   | 50.8      | 2.00 | 12.7       | 0.50        | 22.0  | 0.87 | 673-0003           |            |
| 9    | F5     | 09-801B                | NEOPRENE  | 57.1      | 2.25 | 15.9 KEY   | 0.63 / KEY  | 31.5  | 1.24 | 4568-0001          |            |
| 10   | F5     | 09-1027B-1             | MC97      | 57.1      | 2.25 | SPLINES    |             | 31.5  | 1.24 | 1210-0001          |            |
| 10   | F5     | 09-1027B-10            | MC97      | 57.1      | 2.25 | SPLINES    |             | 31.85 | 1.24 |                    |            |
| 10   | F5     | 09-1027B-9             | NITRILE   | 57.1      | 2.25 | SPLINES    |             | 31.5  | 1.24 | 1210-0003          |            |
| 11   | F6     | 09-812B-1              | MC97      | 57.1      | 2.25 | SPLINES    |             | 48.2  | 1.90 | 13554-0001         |            |
| 12   | F7     | 09-1028BT-1            | MC97      | 65        | 2.56 | SPLINES    |             | 50.2  | 1.98 | 17937-0001         |            |
| 12   | F7     | 09-1028B-9             | NITRILE   | 65        | 2.56 | SPLINES    |             | 50.2  | 1.98 | 17937-0003         |            |
| 13   | F75    | 09-821BT-1             | MC97      | 65        | 2.56 | SPLINES    |             | 80    | 3.15 |                    |            |
| 14   | F8     | 09-819B                | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 63    | 2.48 | 836-0001           | 17935-0001 |
| 14   | F8     | 09-819B-9              | NITRILE   | 95        | 3.74 | SPLINES    |             | 63    | 2.48 | 836-0003           | 17935-0003 |
| 14   | F8     | 09-1029B <sup>1)</sup> | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 63    | 2.48 | 836-0001           | 17935-0001 |
| 14   | F9     | 09-814B                | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 88.5  | 3.48 | 21676-0001         | 17936-0001 |
| 14   | F95    | 09-820B                | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 130   | 5.12 |                    |            |
| 14   | F98    | 09-842B                | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 180   | 7.09 |                    |            |
| 15   | F9     | 09-802B                | NEOPRENE  | 95        | 3.74 | SPLINES    |             | 88.5  | 3.48 | 6760-0001          |            |

\* MC97 AND NEOPRENE - FOR COOLING, NITRILE - OIL RESISTANT

<sup>1)</sup> ALTERNATIVE IMPELLER 09-819B



## DIMENSIONS SHERWOOD IMPELLERS

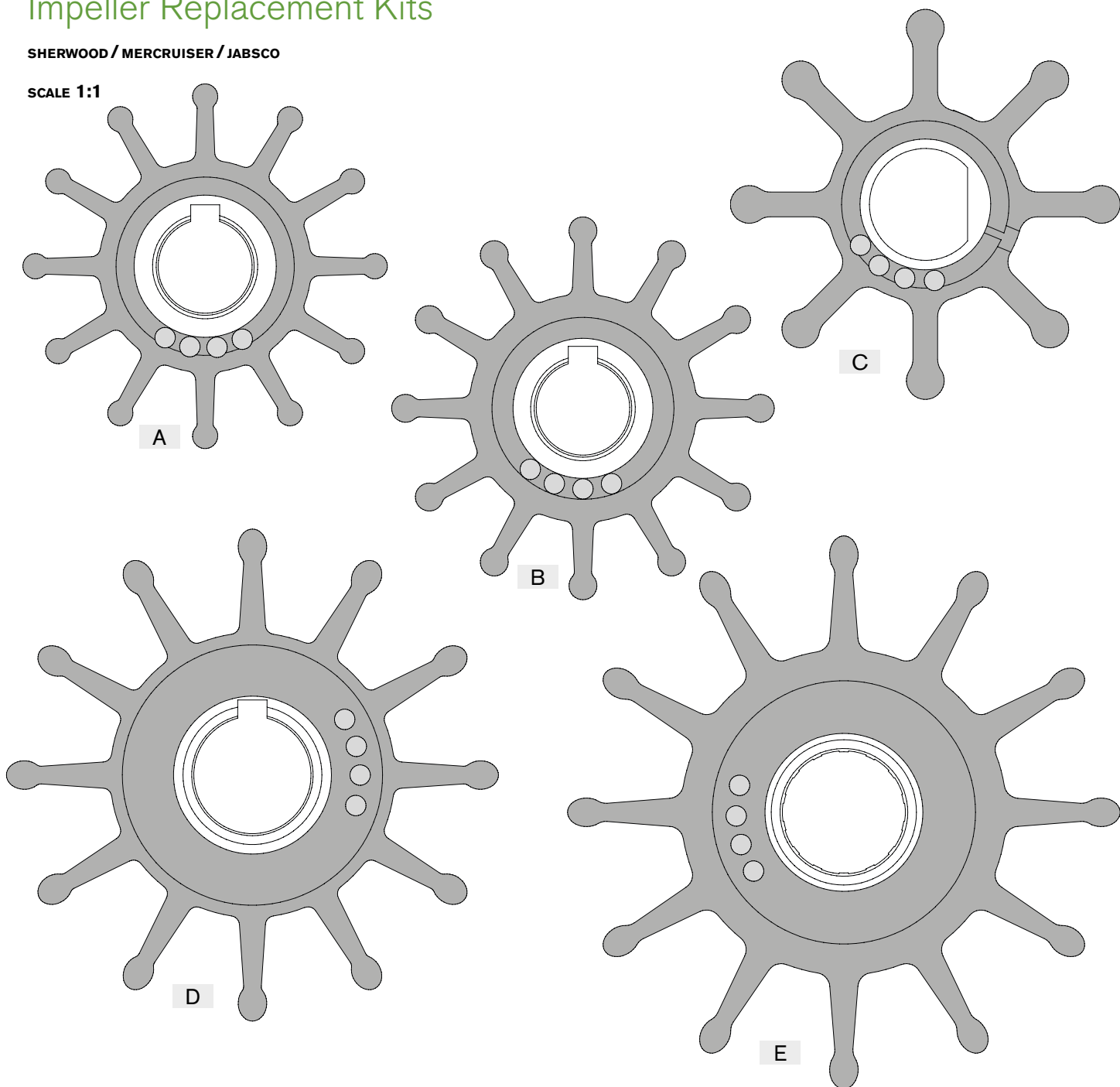
| SHEERWOOD/ MERCUISER JP IMPELLER |    |                   |                   |                       |                    |                    |
|----------------------------------|----|-------------------|-------------------|-----------------------|--------------------|--------------------|
|                                  |    | SHERWOOD<br>9959K | SHERWOOD<br>10615 | MERCUISER<br>47-59362 | SHERWOOD<br>17000K | SHERWOOD<br>18000K |
|                                  |    | 09-701B-1         | 09-702B-1         | 09-703P-1             | 09-704BT-1         | 09-705BT-1         |
| OUTER<br>DIAMETER                | MM | 62,3              | 65,4              | 66,7                  | 84,1               | 94,5               |
|                                  | IN | 2,45              | 2,57              | 2,63                  | 3,31               | 3,72               |
| WIDTH                            | MM | 31,8              | 41,4              | 51                    | 73,4               | 101,6              |
|                                  | IN | 1,25              | 1,63              | 2,01                  | 2,89               | 4                  |



# Impeller Replacement Kits

SHERWOOD / MERCUISER / JABSCO

SCALE 1:1



## IMPELLER REPLACEMENT KITS

| REF. | SPX JOHNSON PUMP PART NO. | SHERWOOD PART NO. | MERCUISER PART NO. | JABSCO PART NO. | ENGINES / PUMPS  |
|------|---------------------------|-------------------|--------------------|-----------------|--|
| A    | 09-701B-1                 | 9959K             | -                  | 18838-0001      | CHRIS CRAFT; CHRYSLER MARINE; COMMANDER; CRUSADER; GLASTRON BOAT CO.; GRAY MARINE; INTERCEPTOR; ONAN; OMC; PATHFINDER VOLKSWAGON ENG.; PERKINS ENG. U.S.; PLESURECRAFT MARINE; UNIVERSAL MEDALIST; VOLVO PENTA; YAMAHA; WESTERBEKE 24102; SHERWOOD 11353; PLEASURE CRAFT 302&351; CHRIS CRAFT 350; ONAN MDL3,4   |
| B    | 09-702B-1                 | 10615K            | -                  | 18948-0001      | CHRIS CRAFT; CHRYSLER MARINE; COMMANDER; CRUSADER; ESCORT (SKILTEC); GRAY MARINE; ISUZU; Lenco; MARINE POWER; NORTH AMERICAN ENGINE; ONAN; OSCO MOTORS; OMC; PERKINS ENGINE U.S.; PLESURECRAFT MARINE; VOLVO PENTA; J.H. WESTERBEKE CORP; CRUSADER 97179; CHRYSLER 3675763; CHRYSLER 4142878; CUMMINS 4B; ONAN MDL6; CHRIS CRAFT 454; PLEASURE CRAFT 454 |
| C    | 09-703P-1                 | -                 | 47-59362T          | 17954-0001      | PUMP QUICKSILVER MODEL 46-72774 A32  |
| D    | 09-704BT-1                | 17000K            | -                  | 18958-0001      | CUMMINS 6B 300HP B SERIES; CUMMINS C SERIES; CAT 3208; CAT 3116; CAT 3126; DEERE 6076; SHERWOOD PUMP P17 SERIES  |
| E    | 09-705BT-1                | 18000K            | -                  | -               | SHERWOOD PUMP P18 SERIES   |

# Impeller Replacement Kits



for engine water cooling pumps  
Johnson Pump  
Sherwood / Mercruiser / Jabsco

## SPX FLOW TECHNOLOGY

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300 Wellington Rd, Mulgrave, Victoria 3170, AUSTRALIA  
Email: johnson-pump@spx.com



SPX reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region.

For more information visit [www.spx.com](http://www.spx.com) and [www.johnson-pump.com/jpmarine](http://www.johnson-pump.com/jpmarine).

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