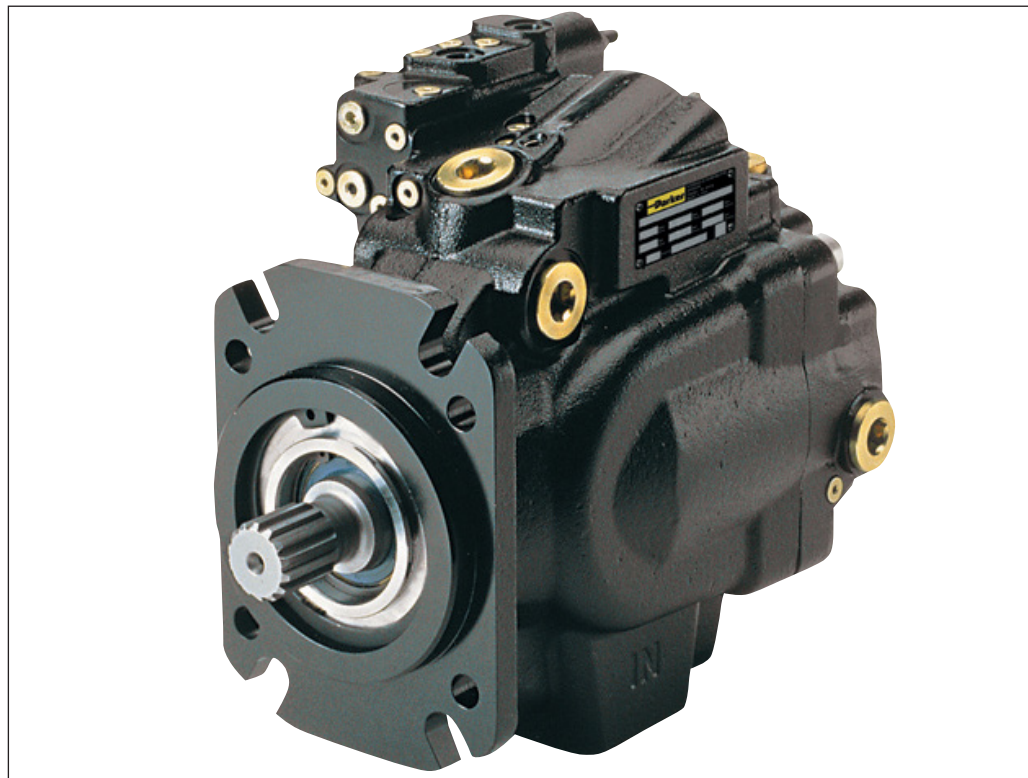


P2/P3 Series

Seal Kits

This document is intended to serve as a high-level guide to correctly select P2/P3 Series seal kits.



Contact Information:

Parker Hannifin Corporation
Hydraulic Pump and Power Systems
14249 Industrial Parkway
Marysville, OH 43040

phone 937 644 3915
fax 937 642 3738
pumptechsupport@parker.com

www.parker.com

Product Features:

- Variable, swashplate piston pumps
- Designed for operation in open circuit, mobile hydraulic systems
- Cost-saving installation
- High productivity
- High power density
- Displacements from 60 to 145 cc/rev



ENGINEERING YOUR SUCCESS

To select the proper seal kit, we need to determine the pump displacement, pump thread type, design, and seal type. This will require the part number of the pump and pump design which is found on the name tag. We'll use the model code breakdown, which is found in the pump catalog.

Below is the typical tag. The pump type (red line) will be PE, P2, or P3. If it is not, please send a photo of the tag. PE = P2 for all parts. In this example, our pump is a P2.

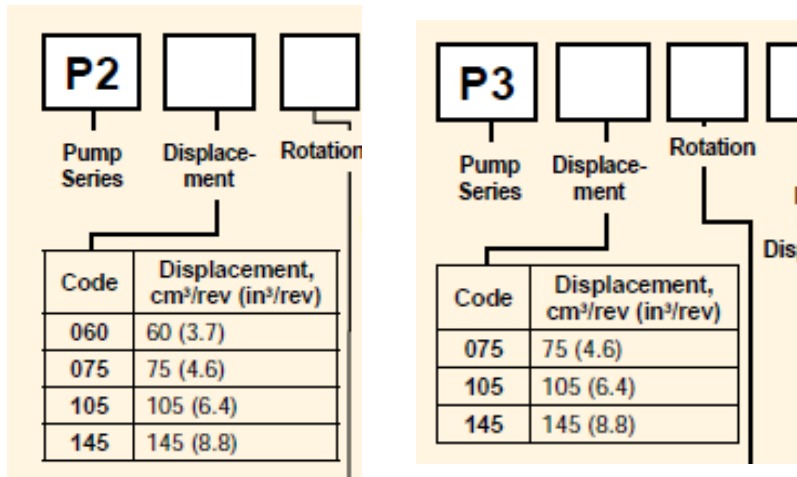
Name Tag



The design of the pump determines if we support the seal kit. The design/series is in the bottom left hand side of the pump tag. This number is marked with a red line. If that part of the pump is damaged, the serial number (green line) can be used to determine the pump design. 60, 75, 105 size pumps with 11 design or higher are current pumps, and 145 size pumps with 12 design or higher are current too. All others are obsolete, and need to have the whole pump replaced.



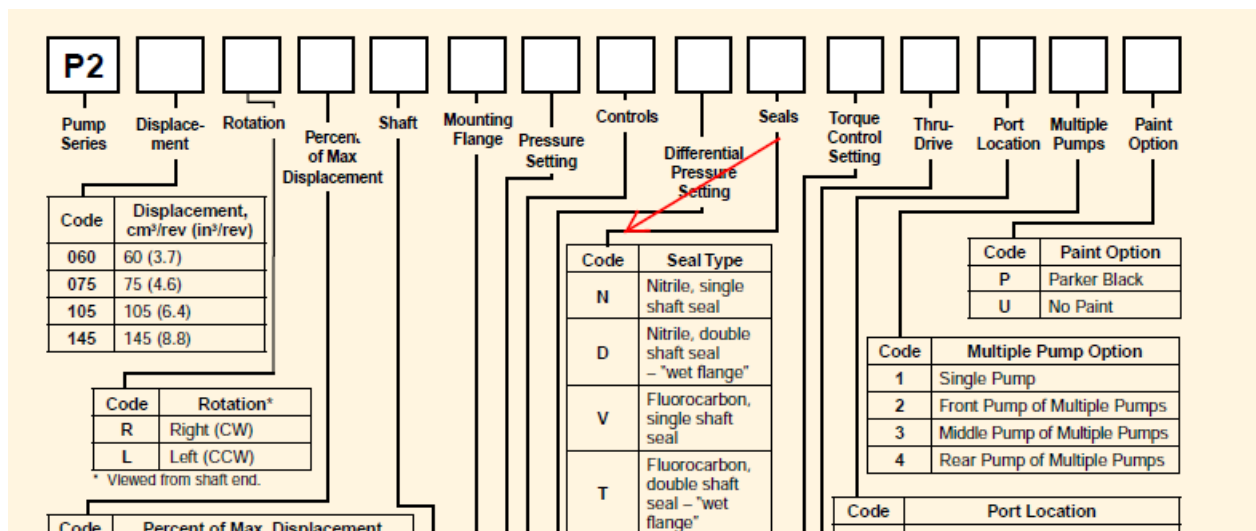
Next, we need to determine the displacement of the pump. The model code choices are below:



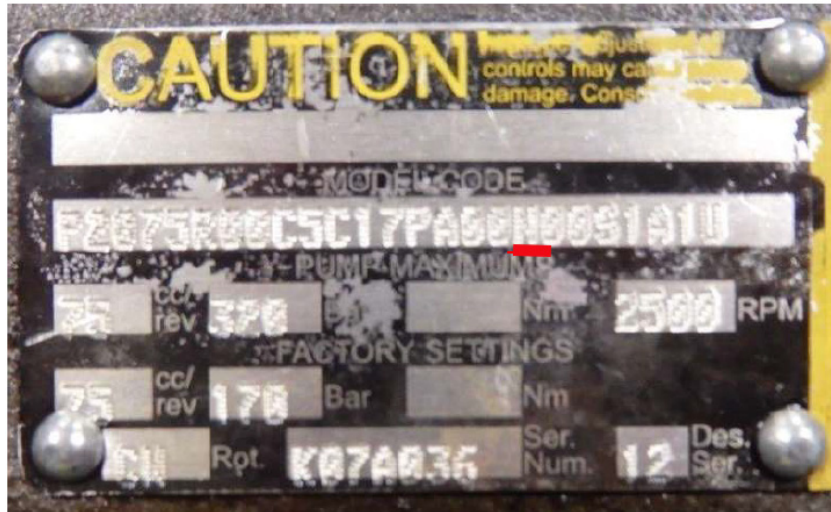
The red line below shows a P2 pump with a displacement of 75.



Next, we need to determine the seal type. The position (18th) and type of seal designation are shown below.

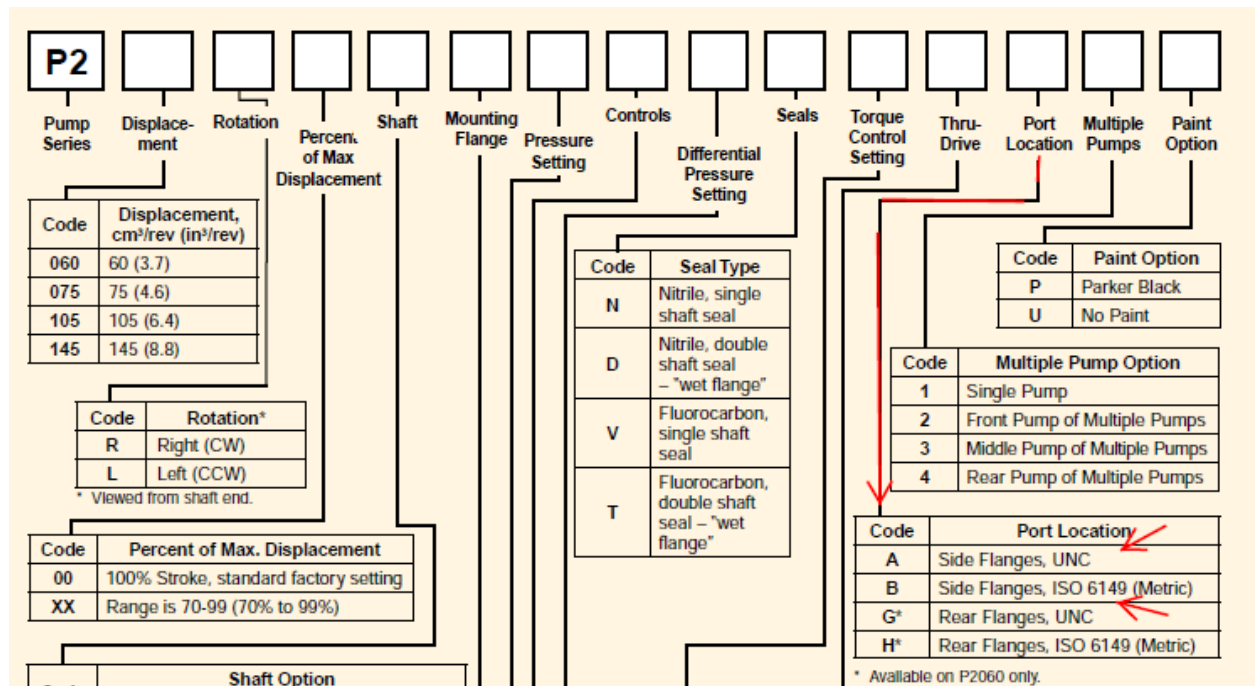


In our example the red line shows an A. So, we have a P2 075 with an N for a seal.



PLEASE NOTE: Before we select our seal material, it is a good practice to determine if the pump as after 12/1/2013, or ask the customer if the system fluid is compatible with Viton shaft seal material. Refer to PC00049 for the details. After 12/1/2013, all pumps were built with viton shaft seals. The coding for a complete Buna seal kit is letter B for a single shaft seal and Q for a double shaft seal.

Next, we need to determine what type of threads are on the pump, In the 23rd position of the pump model code will be the the port designation as shown below:



In our example below, the port location in the 23rd position is A (red line).



The pump displacement (75), the seal type (N), Design 12, and the port type (A) have been identified. There is enough information to select the seal kit. Below is the spread sheet with the old seal kits and new part numbers.

Old Part	Old Description	New Part	New Description	Pump Used On
SKP2060N12	SEAL KIT- DESIGN 11, 12	P2-060-0224-01N	SEAL KIT P2060 SAE N DES 11+	SAE pump, Nitrile seals with Viton Shaft Seal
		P2-060-0224-02N	SEAL KIT P2060 MET N DES 11+	Metric pump, Nitrile seals with Viton Shaft Seal
		P2-060-0224-01B	SEAL KIT P2060 SAE B DES 11+	SAE pump, Nitrile seals with Nitrile Shaft Seal
		P2-060-0224-02B	SEAL KIT P2060 MET B DES 11+	Metric pump, Nitrile seals with Nitrile Shaft Seal
SKP2060V12	SEAL KIT - DESIGN 11, 12	P2-060-0224-01V	SEAL KIT P2060 SAE V DES 11+	SAE pump, Viton seals
		P2-060-0224-02V	SEAL KIT P2060 MET V DES 11+	Metric Pump, Viton Seals
SKP2/P3075N12	SEAL KIT- DESIGN 11, 12	P2-075-0224-01N	SEAL KIT P2/P3075 SAE N DS 11+	SAE pump, Nitrile seals with Viton Shaft Seal
		P2-075-0224-02N	SEAL KIT P2/P3075 MET N DS 11+	Metric pump, Nitrile seals with Viton Shaft Seal
		P2-075-0224-01B	SEAL KIT P2/P3075 SAE B DS 11+	SAE pump, Nitrile seals with Nitrile Shaft Seal
		P2-075-0224-02B	SEAL KIT P2/P3075 MET B DS 11+	Metric pump, Nitrile seals with Nitrile Shaft Seal
SKP2/P3075V12	SEAL KIT - DESIGN 11, 12	P2-075-0224-01V	SEAL KIT P2/P3075 SAE V DS 11+	SAE pump, Viton seals
		P2-075-0224-02V	SEAL KIT P2/P3075 MET V DS 11+	Metric Pump, Viton Seals
SKP2/P3105N15	SEAL KIT- DESIGN 11 THRU 15	P2-105-0224-01N	SEAL KIT P2/P3105 SAE N DS 12+	SAE pump, Nitrile seals with Viton Shaft Seal
		P2-105-0224-02N	SEAL KIT P2/P3105 MET N DS 12+	Metric pump, Nitrile seals with Viton Shaft Seal
		P2-105-0224-01B	SEAL KIT P2/P3105 SAE B DS 12+	SAE pump, Nitrile seals with Nitrile Shaft Seal
		P2-105-0224-02B	SEAL KIT P2/P3105 MET B DS 12+	Metric pump, Nitrile seals with Nitrile Shaft Seal
SKP2/P3105V15	SEAL KIT- DESIGN 10 THRU 15	P2-105-0224-01V	SEAL KIT P2/P3105 SAE V DS 12+	SAE pump, Viton seals
		P2-105-0224-02V	SEAL KIT P2/P3105 MET V DS 12+	Metric Pump, Viton Seals
P2-145-0230N	SEAL KIT P2/P3 DSG 12 TO 15	P2-145-0230-01N	SEAL KIT P2/P3145 SAE N DS 12+	SAE pump, Nitrile seals with Viton Shaft Seal
		P2-145-0230-02N	SEAL KIT P2/P3145 MET N DS 12+	Metric pump, Nitrile seals with Viton Shaft Seal
		P2-145-0230-01B	SEAL KIT P2/P3145 SAE B DS 12+	SAE pump, Nitrile seals with Nitrile Shaft Seal
		P2-145-0230-02B	SEAL KIT P2/P3145 MET B DS 12+	Metric pump, Nitrile seals with Nitrile Shaft Seal
P2-145-0230V	SEAL KIT P2/P3 DSG 12 TO 15	P2-145-0230-01V	SEAL KIT P2/P3145 SAE V DS 12+	SAE pump, Viton seals
		P2-145-0230-02V	SEAL KIT P2/P3145 MET V DS 12+	Metric Pump, Viton Seals

We find the group that shows P2, 075, and N.

SKP2/P3075N12

The seal kit is within our design range of “12”.

SEAL KIT- DESIGN 11, 12

We select part number P2-075-0224-01B since it meets the criteria of our pump:

P2-075-0224-01N	SEAL KIT P2/P3075 SAE N DS 11+	SAE pump, Nitrile seals with Viton Shaft Seal
P2-075-0224-02N	SEAL KIT P2/P3075 MET N DS 11+	Metric pump, Nitrile seals with Viton Shaft Seal
P2-075-0224-01B	SEAL KIT P2/P3075 SAE B DS 11+	SAE pump, Nitrile seals with Nitrile Shaft Seal
P2-075-0224-02B	SEAL KIT P2/P3075 MET B DS 11+	Metric pump, Nitrile seals with Nitrile Shaft Seal

Please contact the HPS Tech Support group at 937.644.0139 or email us at pumptechsupport@parker.com.