PL 7065

Higher flow in small column size.

Contents

1 Introduction

The first milestone in the performance improvement program for our propeller pump range has been achieved, and we now introduce PL 7065. This is the first of three pumps which will be built based on the same hydraulic design.

The overall aim with these new pumps is to improve the performance and competitiveness in the border areas between the existing PL-pumps 7061-7081-7101-7121.

The new PL 7065 will improve the performance and improve our competitiveness in the region between the existing PL 7061 and PL 7081.

PL 7065 is built on the existing pump housing for PL 7061 but with a larger propeller diameter; this also gives the pump a new inlet cone. The stainless steel propeller is cast in one piece.

The next pumps planned in this series are the PL 7105 and PL 7125; more information about these pumps will come later.

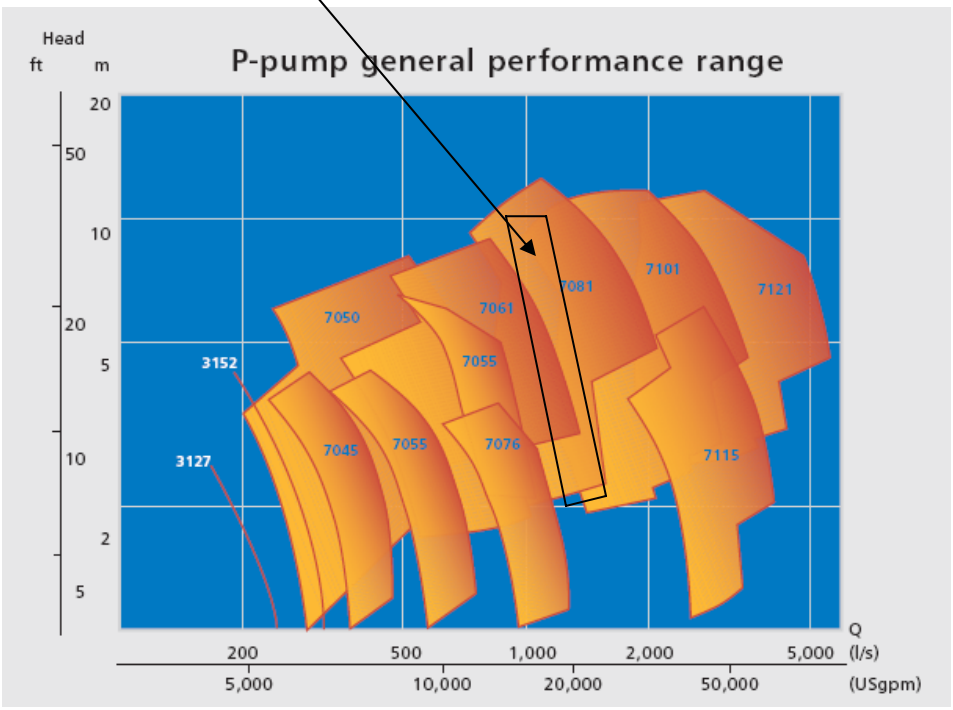
2 Product aim

The overall aim is to improve the performance of the PL-series. This product in particular offers better performance coverage and higher efficiency in the region between PL 7061 and PL 7081.

The PL 7065 will cover part of the PL 7081 performance field, which makes us much more competitive in this area. The same Q/H performance with a smaller pump reduces the total cost for the customer due to smaller column size, and consequently also a smaller pump sump.

This pump also covers the 50 Hz high head performance of the phased-out PL 7060.

PL 7065



3 Product and features

The PL 7065 pump introduces a new way to get better QH coverage from few propeller angles. QH coverage is maximized by altering both blade angle and propeller diameter.

Curves are available in:

50 Hz: 6, 8 and 10-pole
60 Hz: 8, 10 and 12-pole

Motor powers, see list.

Type	Pump	Drive unit	Motor	50Hz	60Hz	
				kW	kW	HP
P	7065	765	43-56-6BC	200	-	-
P	7065	735	43-44-6BC	160	-	-
P	7065	705	43-30-6BC	110	-	-
P	7065	735	43-44-8AA	-	160	215
P	7065	705	43-30-8GA	-	112	150
P	7065	705	43-30-8AA	90	101	135
P	7065	705	43-30-8FA	55	67	90
P	7065	705	43-30-10GA	-	82	110
P	7065	705	43-30-10FA	40	48	65
P	7065	705	43-30-12AA	-	45	60
P	7065	705	43-30-12FA	-	34	45

The performance is built up with 5 different blade angles and 3 propeller diameters. That gives 15 different curves for each pole number. (25 degree angle is not allowed for the 6-pole motor.)

Blade angles are chosen through propeller modules:

Curve code	Angle
X10	11
X20	15
X30	18
X40	22
X50	25

Propeller diameters available are: 506, 515, and 523 mm.

Curve code is built up in the same way as for a C or N pump. The angle is in the curve code, and the diameter is given as additional information.

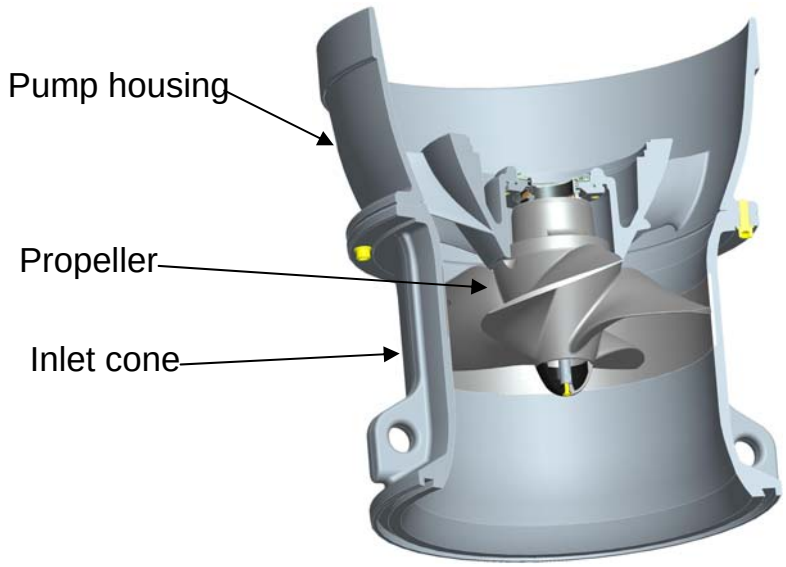
Example: 63-830 diameter 515 mm. 830 is read as “X30” in the above table, to indicate that this is a propeller with an 18 degree angle.

The propeller material is stainless steel and meets the standards ASTM A 743 CF-8M and EN 1.4408/1.4412. The wear ring material meets the standards AISI 316 and EN 1.4404.

The propeller is cast in one piece.

The self cleaning technique (N-technique) is designed into this pump as a standard feature.

Each propeller diameter corresponds to a certain inlet cone diameter. It is not possible to change the diameter of the propeller without changing to a new inlet cone and vice versa.



4 Sales arguments/ Strategies

Main benefits are:

N-hydraulic including self-cleaning propeller and relief groove
Self cleaning guide vanes in the pump housing
Easy installation in column pipe
Easy to lift the pump for service
Pump seat sealed off with o-ring
Two anti-rotation devices on the pump
Stainless steel propeller
Stainless steel replaceable wear ring

5 Main market segments/Applications

Applications are:

Storm water
Flood control
Raw water
Industrial effluent

Due to the self cleaning technique, the PL 7065 is also applicable to:

Waste water transport and treatment plant intake stations

6 Sales promotion

Sales brochures will be updated when the new PL 7105 and PL 7125 is introduced. The design recommendations will be updated as soon as possible.

7 Technical documentation

7.1 Technical Specifications
7.2 Performance Curves
7.3 Dimensional Drawings
7.4 Care & Maintenance
7.5 Parts List

8 Sales tools

Flyps will be updated in March 2009.

9 Time schedule for launch

Available for order in January 2009. Delivery time is the same as for all other PL pumps with 700 drives (currently 10 working weeks from order).

10 Prices

Prices are available in the price list. Price includes stainless steel propeller and Self-cleaning version (N).