

REVIT CONTENT GUIDE

Manufacturer:	Grundfos
File:	Pump-Water_Booster-Grundfos_SCALA-Master.rfa
Type Catalog:	Pump-Water_Booster-Grundfos_SCALA-Master.txt
Rendering file:	Not Applicable
Schedule file:	Schedule - Pump-Water_Booster-Grundfos-SCALA -Master.rvt



Instance Properties

Graphics	
Annotative Symbol Native Radius*	0.125
Show Annotative Symbol*	<input type="checkbox"/>
Show Masking Regions*	<input checked="" type="checkbox"/>
Identity Data	
Equipment Number*	
Part Description*	Self-priming, constant pressure, multistage water booster pump
Part Number*	SCALA2 3-45

Type Properties

The family contains the following 5 types:

- SCALA_60_98562862 (Values for this type are shown below)
- SCALA_50_98562862
- SCALA_50_98562863
- SCALA_60_98562817
- SCALA_60_98562818

Electrical	
Efficiency Rating*	0.38
Enclosure Rating*	IPX4D
Frequency*	50.00 Hz
Full Load Amperes*	2.55 A
Load Classification*	Other
Motor Type*	Permanent magnet
Phase*	1
PowerFactor*	1.000000
Voltage*	230.00 V
Wattage*	45000.00 VA
Identity Data	
Approvals*	CE, VDE, cULus DW NSF61, cULus NSF372, EAC, WRAS, CSA
Author*	Grundfos Holding A/S
Copyright*	Grundfos Holding A/S
Date Last Modified*	August 1, 2017
Description*	Self-priming, constant pressure, multistage water booster pump
Equipment Abbreviation*	PMP
Manufacturer*	Grundfos
Manufacturer Website*	http://www.grundfos.com/
Model*	SCALA2 3-45
Model Disclaimer*	For more information, contact Grundfos
Original Creation Date*	August 1, 2017

Identity Data	
Product Literature*	http://product-selection.grundfos.com/product-detail.html?productnumber=98562863&frequency=50&custid=GMA
Product Model Number*	98562863
Product Range*	SCALA
ProductCode*	SCALA2 3-45
Type Image	-1
Uniclass2*	Pr_65_53_96_65
URL*	http://product-selection.grundfos.com/
Materials	
Impeller Material*	Composite
Material*	NORYL FE1630PW PPE+PS-GS30
Pump Material	2395
Mechanical	
Flow*	13.209 GPM
FluidTempMax*	113.00 °F
FluidTempMin*	32.00 °F
Head*	652.670 psi
Impeller diameter*	80.000
Maximum Operating Pressure*	145.038 psi
Maximum Operating Temperature*	131.00 °F
Number of Impellers*	4.000000
Pump Type*	Self-priming multistage pump
RPM*	5200
Speed Type*	Variable
Structural	
Gross Weight*	28.219 lb

Half tone text in the property tables indicates that the value is locked from editing.

*Indicates Shared Parameter and can be scheduled

Loading and Placing into the Project

One “Mechanical Equipment” family and one type catalog file are supplied and types may be loaded into Revit through the use of the type catalog. Using the visibility settings of the view that is intended for placement, ensure that the Mechanical Equipment category is visible.

The Pump is a “Level Based” model that will stay oriented in the vertical position when placed in the project environment. Grundfos families have been designed for ease of use with the pipe routing system supplied within Revit. To use this functionality, ensure that the Pump is connected to an existing pipe run.

Project Behavior

Within the type and instance properties dialogues the user will find useful information for scheduling purposes such as Head, Flow, Voltage, Gross Weight, and other unique properties to the Pump.

There are different types within the type catalog to allow for the family to be configured to different sizes and flow rates in order to meet specific needs. The geometry is set to change with the project view’s detail levels. The external features represented on the product will change from a simplistic shape in Coarse and Medium level to a more realistic representation in Fine. There is also an option within the family to change the plan view representation to an annotation symbol rather than a physical masking region representation.

The family contains pipe connections to allow for the user to plumb their pump to the system. The connections also contain relevant data so that the connected pipe system can accurately calculate the flow through the pump. The family also has an electrical connection that allows the family to be added to the systems circuit for load calculations.

Instance Parameters

In the “Instance Parameters” of the model the user has the following options to modify:

- Show Masking Regions - For toggling the visibility of the masking region.
- Show Annotative Symbol - For changing the plan view representation to an annotation symbol.
- Annotative Symbol Native Radius - For inputting the desired radius for the annotation symbol.

Grundfos Holding A/S
Poul Due Jensens Vej 7
DK-8850 Bjerringbro, Denmark

Type Parameters

Because the Pump represents a manufactured product the type parameters within the family should not be modified for Standard configuration.

Visibility

For best performance within a project all model geometry is turned off in Plan View when placed in the product's intended orientation. It is then represented by a masking region (or annotative symbol, see Instance Parameters) that will be visible on the product it is placed in. For ease of use all geometry is assigned to the category Mechanical Equipment.

Rendering

When the family is loaded into a project standard Grundfos materials are imported. The materials may be modified, though ensure that the modified selection matches an actual manufacturer supplied option.

Schedule Creation

Grundfos products may be scheduled utilizing the schedule view in the provided project file. Select and copy (Ctrl+C) the schedule from the sheet view and paste it (Ctrl+V) into a sheet in your project. The schedule filters are set to look for only families with Manufacturer as "Grundfos".