

## Solid Model Instructions – Shuttle Pumps

The ZIP folder contains two solid model STEP or IGS files, one model with a shuttle valve and one without. The ZIP folder also contains a folder titled configuration options.

Intended for dual

pressure switch control





your outlet fitting be smaller

Name	Туре
📜 leak-detection	File folder
ル liquid-fittings	File folder
👢 stroke-detection	File folder
🗋 d-10-amplifier-for-stroke-and-leak	STEP File

Name	Туре
📜 psa060-step	File folder
Name	Туре
👢 configuration-options	File folder
psa060-without-shuttle.STEP	STEP File
psa060-with-shuttle.STEP	STEP File

The *-with-shuttle* and the *-without-shuttle* files are the basic models of the pump with minimal attachments and no liquid fittings. Use the configurations-options folder to configure the base model pump to your specific system requirements.

The configurations options folder contains the leak detection, liquid, and stroke detection fittings available for the pump. Mate surfaces of parts and ports are color coded.

d-10-amplifier-for-stroke-and-I	eak STEP File		Name	Туре
		4	儿 flaretek	File folder
Liquid inlet and outlet fittings	Name		👢 fnpt	File folder
are available in many types	08-flaretek-compatible.STEP		👢 pillar-s-300	File folder
and sizes. You may configure	12-flaretek-compatible.STEP		👢 synchro-flare	File folder
your pump with different inlet	16-flaretek-compatible.STEP		儿 tubeout	File folder
White Knight recommends	20-flaretek-compatible.STEP		📜 weldable	File folder

than your inlet fitting. Sizes are referenced in file names as  $16^{ths}$  of inches (i.e.  $04 = \frac{1}{4}$ ,  $08 = \frac{1}{2}$ , 16 = 1, etc.)



## Examples



Pump assembly with two straight out liquid fittings and a top check plug.



Shuttle pump assembly with two straight out liquid fittings.



Shuttle pump assembly with two straight out liquid fittings and fiber optic leak detection.



Shuttle pump assembly configured to operate with a single pressure switch for stroke detection.



Shuttle pump assembly configured to operate with elbow out fiber optic leak detection.



Shuttle pump assembly configured to operate with fiber optic stroke detection.



straight inlet fitting, front out plug, and top out liquid fitting.



Shuttle pump assembly with a

Shuttle pump assembly with a straight inlet fitting, front out plug, and top out liquid fitting assembled.



The D10 amplifier is

recommended by White Knight for use with fiber optic cables and has been included in your solid models to allow for place assignment in your solid model.



The Sunx pressure switch is the pressure switch recommended by White Knight for stroke detection use with our shuttle pumps. It has been included in your solid models to allow for place assignment in your solid model.



## Examples



Pump assembly without shuttle with all components for operating with dual pressure switches

Pump assembly without shuttle configured to run with dual pressure switches.