SOUTH RIDGE
PUMPS

Control Equipment

SOUTH RIDGE PUMPS

INDEX

FLOATING LEVEL SWITCH

PERFORMANCE RANGE

The SK-12A float level switch is a ball-type mechanical switch, encased in a PVC housing that seals the switch mechanism in an air filled watertight chamber. Due to the enclosed air section, the SK-12A will attempt to float in liquid with an SG ≥ 1. The float level is used for level detection and dry run protection in bulk water reservoirs.

OPERATING LIMITS

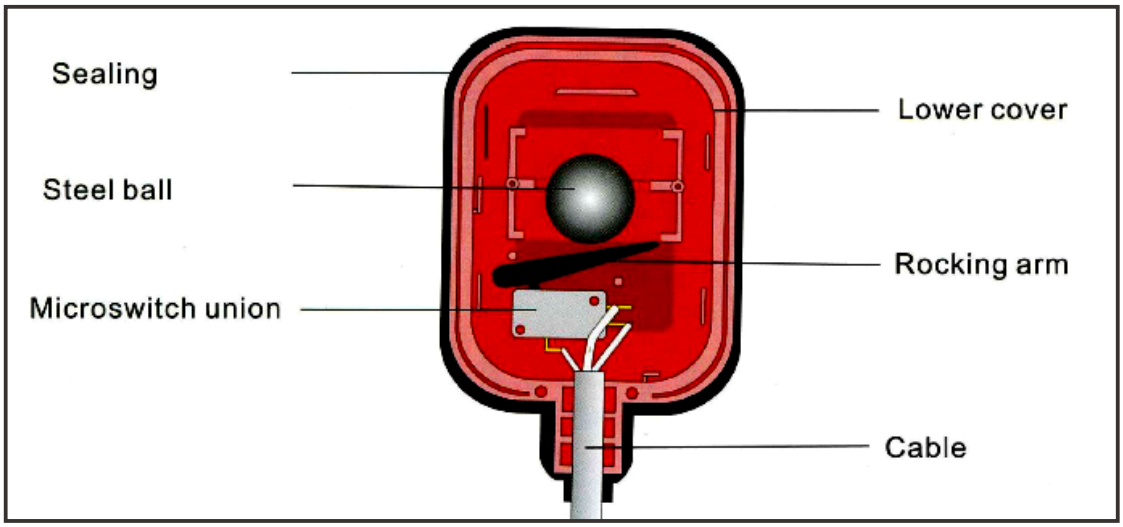
Liquid Temperature	0 - 55°C (but not frozen)
Ambient Temperature	0 - 45°C

TECHNICAL FEATURES

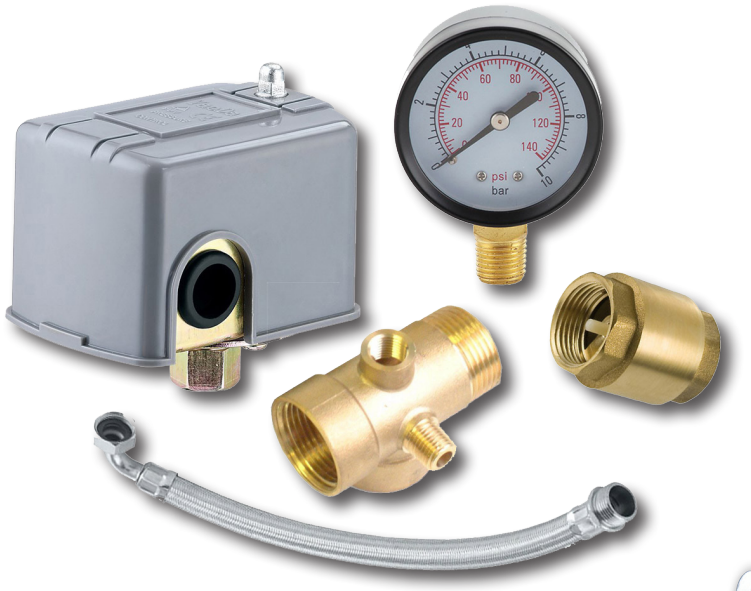
Rated Voltage:	220VAC, 50Hz
Maximum current:	16 Amp
Protection grade:	IP68
Cable length:	5m

MODEL	INPUT VOLTAGE (V)	FREQUENCY (Hz)	CURRENT (A)
SK-12A	220	50	10

SECTIONAL DRAWING

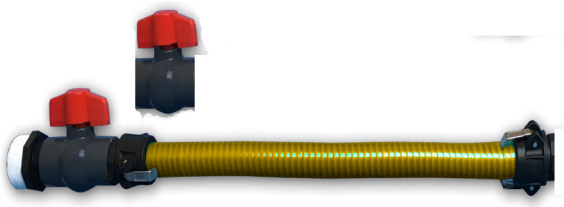


PRESSURE BOOSTER SYSTEM COMPONENTS



This pressure boost system comprises of:

- 5-way connector (brass)
- Pressure gauge
- Pressure switch (see next page)
- Non-return valve (1” brass)
- Flexible hose (1”x1”x0.8m)
- Flexible hose (1”x1”x0.4m)
- Suction Hose Kit 25mm x 300mm



PRESSURE SWITCH: SK-2

PERFORMANCE RANGE

The SK-2 is a mechanical type of pressure switch used to control electric driven domestic type pumps. When the internal pressure of the pipe is more than the setting pressure, the pressure control will disconnect the load power supply to the pump and connect the power again when pressure drops below the set pressure.
The SK-2 has two operating points; one on the rising pressure trip point and the other on the falling pressure (reset point). The differential is the difference in pressure between the trip point (cut-out) and the reset point (cut-in).

OPERATING LIMITS

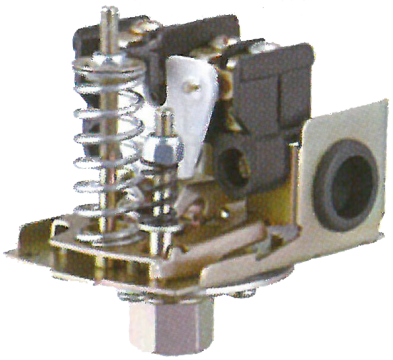
Ambient Temperature: 0 - 55°C (but not frozen)

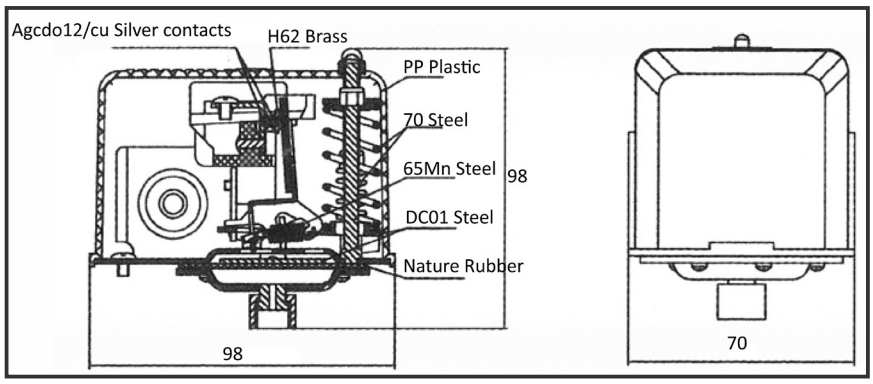
TECHNICAL FEATURES

Rated Voltage: 220VAC, 50Hz
Maximum current: 12 Amp
Protection grade: IP20
Pre-set on-off pressure: 1.4 - 2.8bar
Maximum pressure: 6bar
Joint screw: G1/4”

MODEL	INPUT VOLTAGE	FREQUENCY	CURRENT	POWER	
	(V)	(Hz)	(A)	(W)	(HP)
SK-2	220	50	12	2200	3

SECTIONAL DRAWING





PRESSURE TANKS: BLADDER TYPE

PERFORMANCE RANGE

The bladder type series of pressure tanks is designed to provide reliable storage for pressurized water in a booster pump system. The pressure tank effectively releases its stored volume of pressurised water on demand and prevents pump start-ups for demands lower than its storage capacity. The internal bladder ensures that there is no contact between the water and the air.

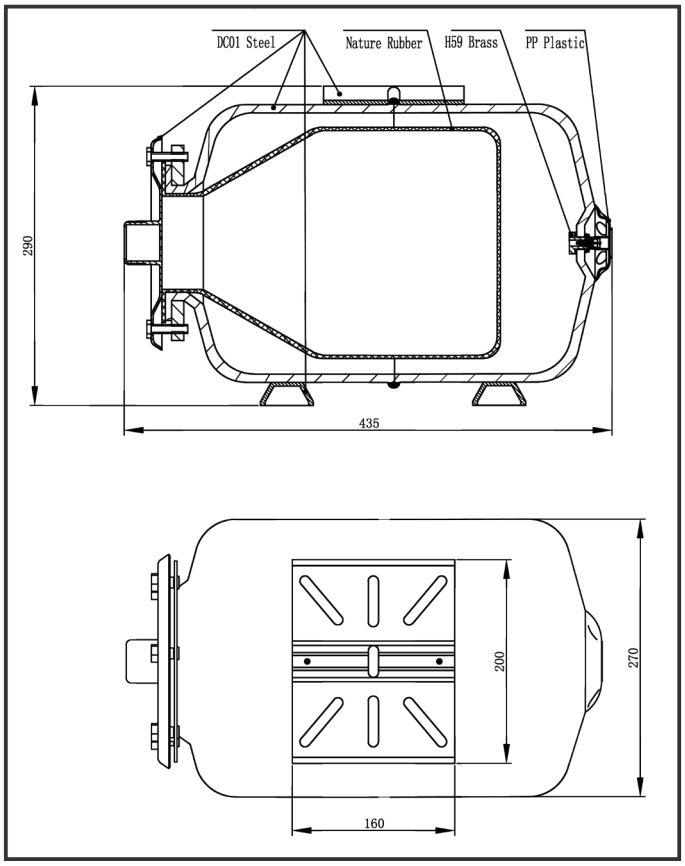
OPERATING LIMITS

Liquid Temperature	
EPDM	0°C to 99°C
Ambient Temperature	up to 45°C
Max. Working Pressure	10 bar

TECHNICAL FEATURES

Material	Carbon Steel
Bladder	EPDM
Orientation	Vertical or horizontal
Connections	1” – 11/4” BSP
Capacity	24l, 60l, 100l, 300l

H024



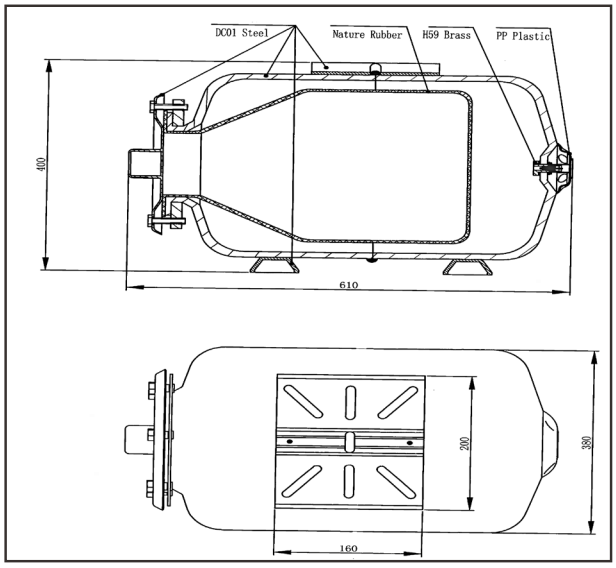
PRESSURE TANKS: BLADDER TYPE

SPECIFICATIONS

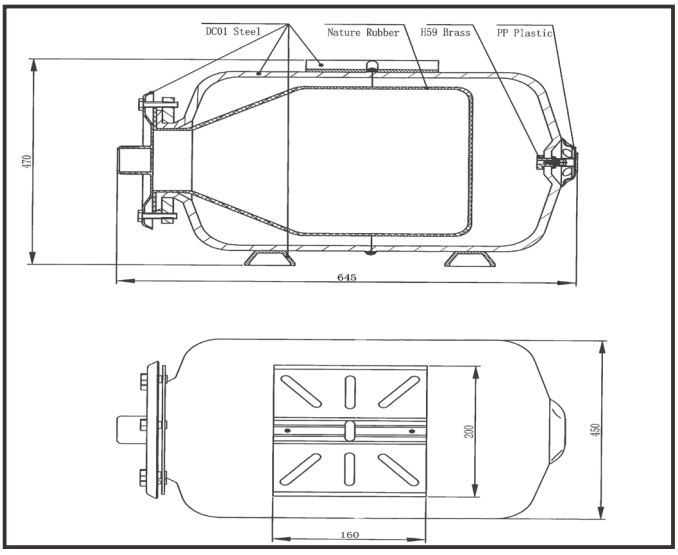
MODEL	ORIENTATION	NOMINAL VOLUME (litre)	SIZE (mm)
H024	Horizontal	24	435 x 290 x 270
H060	Horizontal	60	610 x 400 x 380
H100	Horizontal	100	645 x 470 x 450
VT024	Vertical	24	330 x 330 x 330
VT060	Vertical	60	470 x 380 x 760
VT100	Vertical	100	470 x 450 x 770

DIMENSIONS - HORIZONTAL TANKS

H060

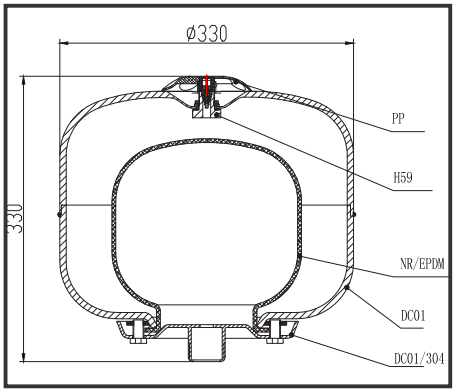


H100

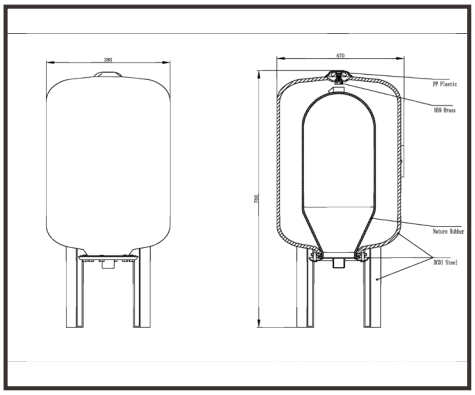


DIMENSIONS - VERTICAL TANKS

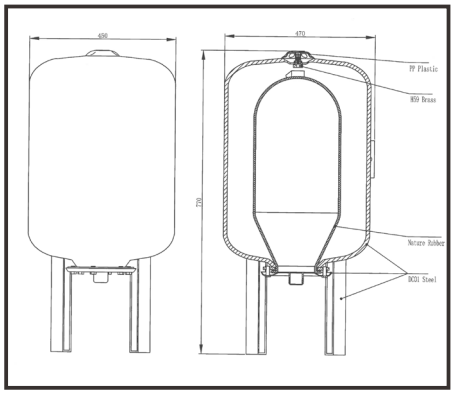
VT024



VT060



VT100



FLOW CONTROL SWITCH: SKD-2

PERFORMANCE RANGE

Flow from 0 to 6m³/h.
The SKD-2 flow control starts the pump automatically when pressure decreases (for example taps are opened) and stops it when there is no flow/water shortage (for example taps are closed). It can be used for drinking water or non-portable water piping systems.

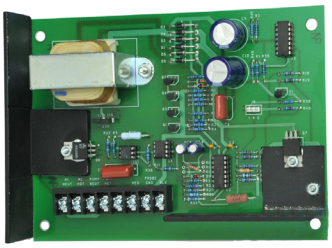
OPERATING LIMITS

Pipe Water Temperature 0 - 60°C (but not frozen)
Ambient Temperature 0 - 45°C

TECHNICAL FEATURES

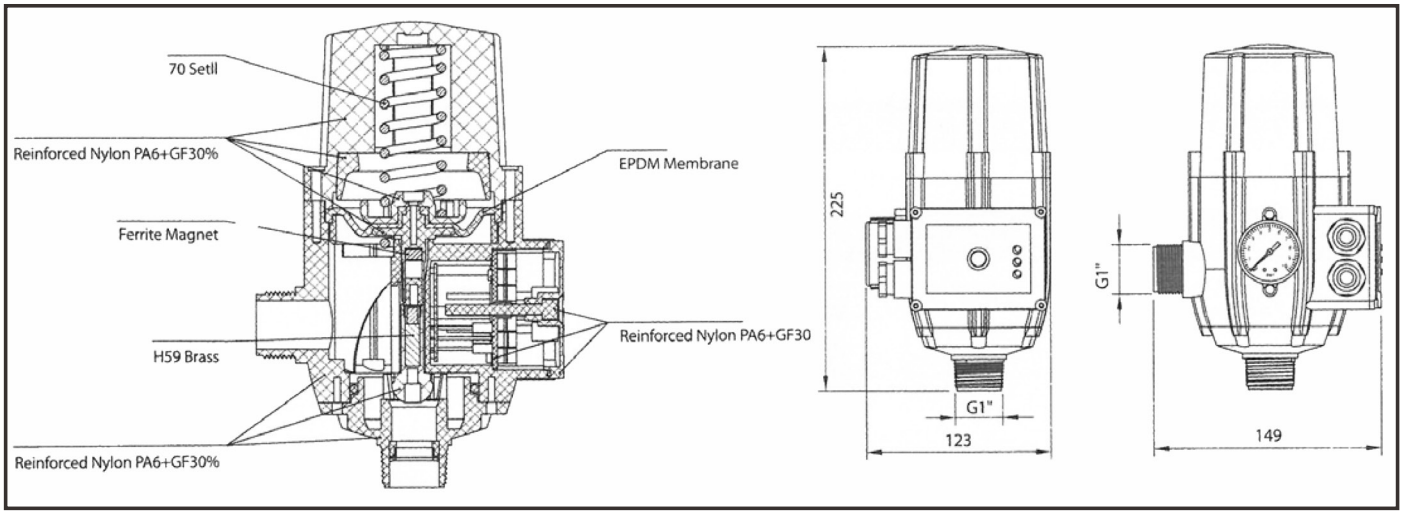
Rated Voltage: 220VAC, 50Hz
Maximum current: 10 Amp
Protection grade: IP65
Starting pressure: 1.5bar
Maximum pressure: 10bar
Inlet/outlet size: (1" x 1") BSP

REPLACEABLE PC BOARD



MODEL	INPUT VOLTAGE	FREQUENCY	CURRENT	POWER	
	(V)	(Hz)	(A)	(W)	(HP)
SKD-2CD	220	50	10	1500	2

SECTIONAL DRAWING



FLOW CONTROL SWITCH: SKD-11

PERFORMANCE RANGE

Flow from 0 to 15m³/h.
The SKD-11 flow control starts the pump automatically when pressure decreases (for example taps are opened) and stops it when there is no flow/water shortage (for example taps are closed). It can be used for drinking water or non-potable water piping systems.

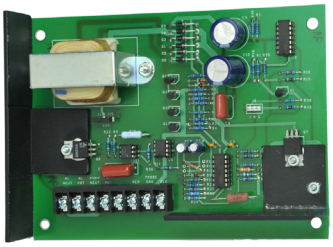
OPERATING LIMITS

Pipe Water Temperature	0 - 60°C (not frozen)
Ambient Temperature	0 - 45°C

TECHNICAL FEATURES

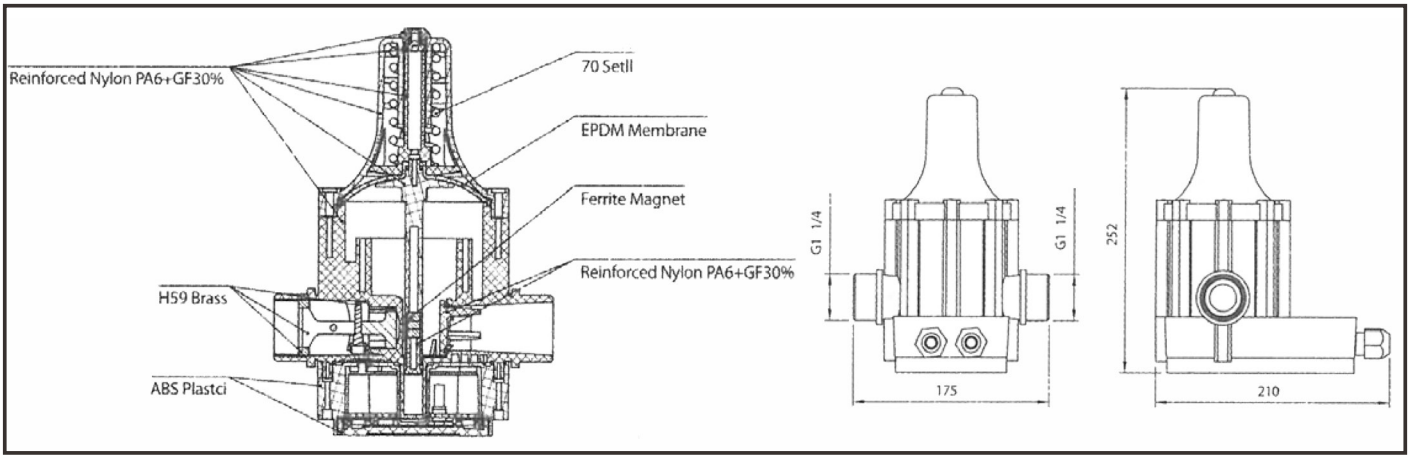
Rated Voltage:	220VAC, 50Hz
Maximum current:	30 Amp
Protection grade:	IP65
Starting pressure:	1.2bar
Maximum pressure:	10bar
Inlet/outlet size:	(1¼" x 1¼") BSP

Replacement PC Board



MODEL	INPUT VOLTAGE	FREQUENCY	CURRENT	POWER		STANDBY POWER
	(V)	(Hz)	(A)	(W)	(HP)	(W)
SKD-11A	220	50	30	3300	4.4	16

SECTIONAL DRAWING



FLOW CONTROL SWITCH: PS06-1C

PERFORMANCE RANGE

Direct Flow: 0 to 6m³/hour

The PS06-1C is a combination of a flow controller and a pressure sensor. It can be used in flow / pressure control system for non-particle laden liquids of non-chemically aggressive nature.

ADVANTAGES OF THIS DISIGN:

Prevents freqent stop / start in systems with a slow leak.
Prevents over pressurising of deliver side of the pipe network.
Able to activate against high static head conditions

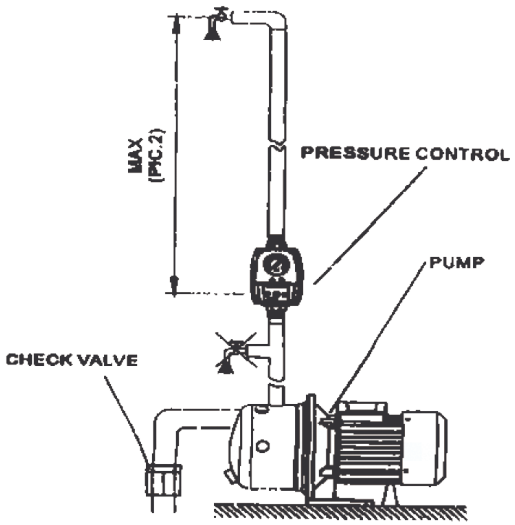
TECHNICAL DATA:

Rated Voltage:	220 ~ 240V	Protection degree:	IP65
Frequency:	50/60Hz	Cut in pressure:	1-7 Bar
Max Power:	1.1kW	Cut out pressure:	2-10 Bar
Max Current:	10A	Max differential pressure:	7 Bar
Max working pressure:	10 Bar	Min Differential pressure:	1 Bar
Max operating temp:	60 °C	Interface thread:	G1" Male

Note: PC board for PS06-1C is not replaceable.

INSTALLATION:

- Controller can only be used in clean water.
- Ensure that a non-return valve is installed at the inlet of the pump.
- The controller can be installed directly on the pump outlet.
- Do not use glue on the controller during installation.
- Do not install a tap between the pump and contoller.



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