CONTROL EQUIPMENT

CATALOGUE
2019

VERSION 1

HYDRO PUMPS
WATER TECHNOLOGIES

INDEX

This document contains hyperlinks. If you are using the electronic PDF copy you do not need to go through the entire document to get to the required page, you can simply click on the required page on your index page. Click on the logo on top to return to the Index page.

FLOATING LEVEL SWITCH
SK-12A

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
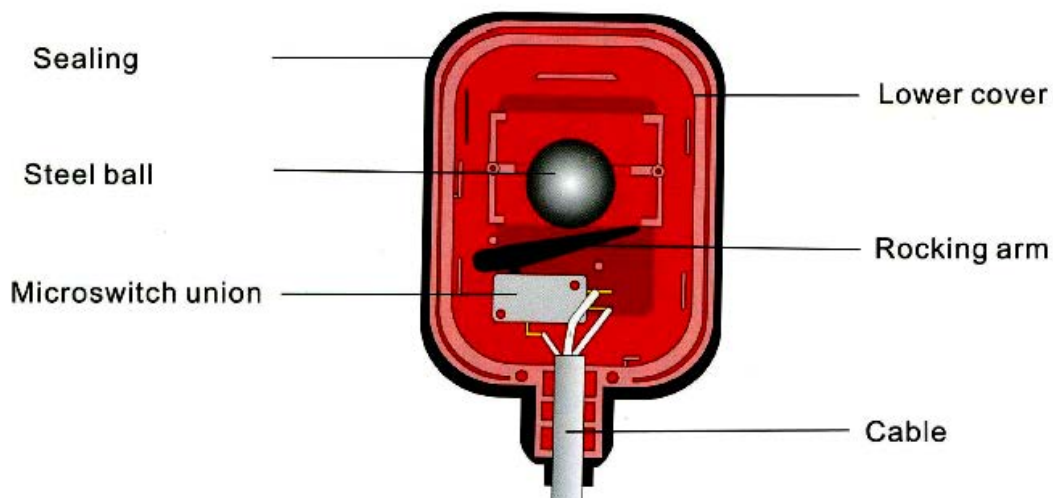
PRESSURE BOOSTER
SYSTEM COMPONENTS

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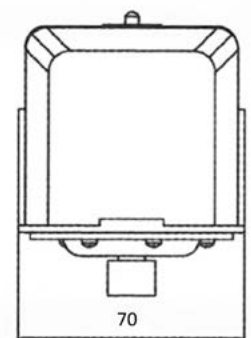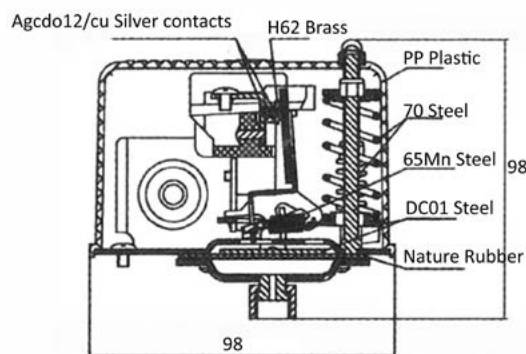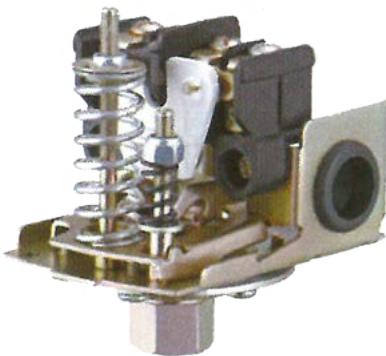
Ambient Temperature: 0 - 55°C (but not frozen)

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

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.
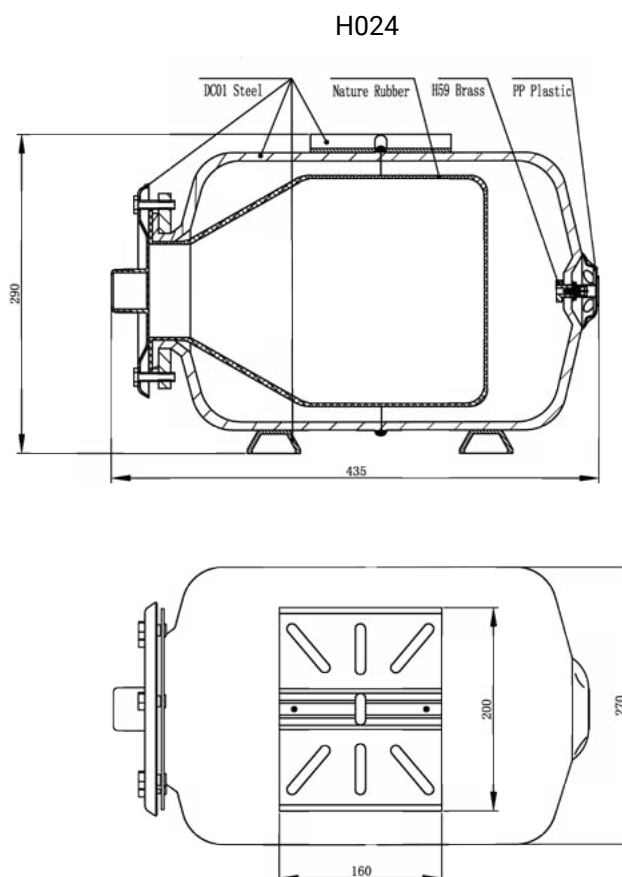
LIQUID TEMPERATURE

EPDM	0°C to 99°C
Ambient Temperature	up to 45°C
Max. Working Pressure	8 bar

TECHNICAL FEATURES

Material:	Carbon Steel
Bladder:	EPDM
Orientation:	Vertical or horizontal
Connections:	1" – 11/4" BSP
Capacity:	24L, 60L and 100L

REPLACEABLE BLADDERS AVAILABLE

H024

PRESSURE TANK
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
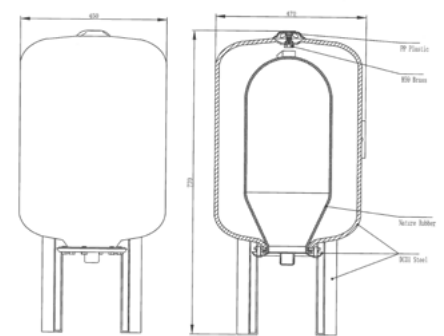
H060
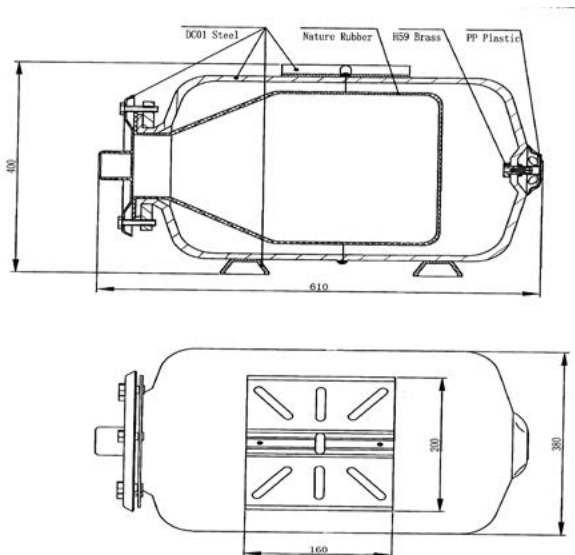
H100
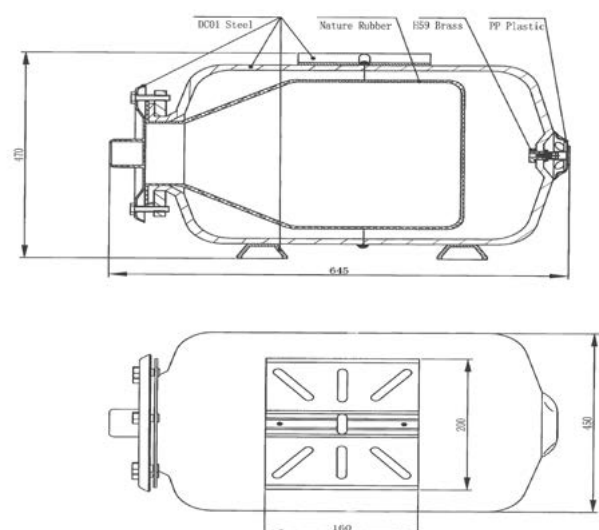
DIMENSIONS - VERTICAL TANKS

VT024
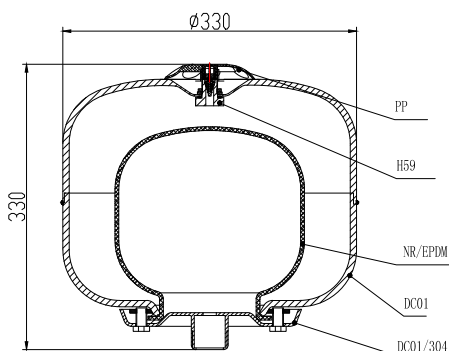
VT060
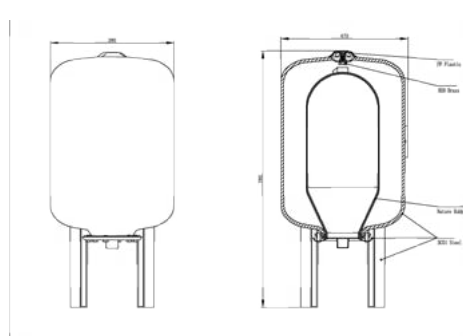
VT100

PRESSURE SWITCH
TWO-IN-ONE

MODEL SINGLE-PHASE	SIZE INCH	MEMBRANE	THICKNESS (mm)	HEIGHT (mm)	DIAMETER (mm)	CAPACITY L	DIMENSION (LxWxH) mm	N/W kg
GFCV36T	1"	EPDM	1.2	600	350	36	35x35x62	6.9/5.9
GFCV50T	1"	EPDM	1.2	710	350	50	35x35x71	8.0/7.1
GFCV80T	1"	EPDM	1.2	750	450	80	45x45x76	11.6/10.1
GFCV100T	1"	EPDM	1.2	835	450	100	45x45x84	12.6/11.5
GFCV150T	1"	EPDM	1.2	1135	500	150	115x51x52	25.2/23.1

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:	1.5 bar
Maximum pressure:	10 bar
Inlet/outlet size:	(1" x 1") BSP

REPLACEABLE PC BOARD	ADJUSTABLE PRESSURE
	cut in pressure adjustable between 1.2 & 1.5 bar
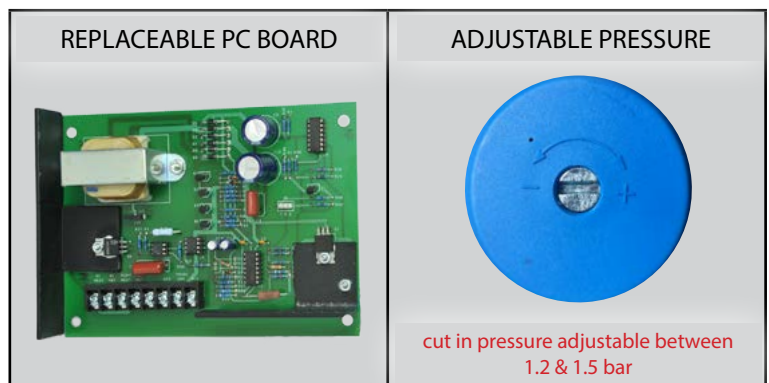
MODEL	INPUT VOLTAGE	FREQUENCY	CURRENT	POWER	
	(V)	(Hz)	(A)	(W)	(HP)
SKD-2CD	220	50	10	1500	2
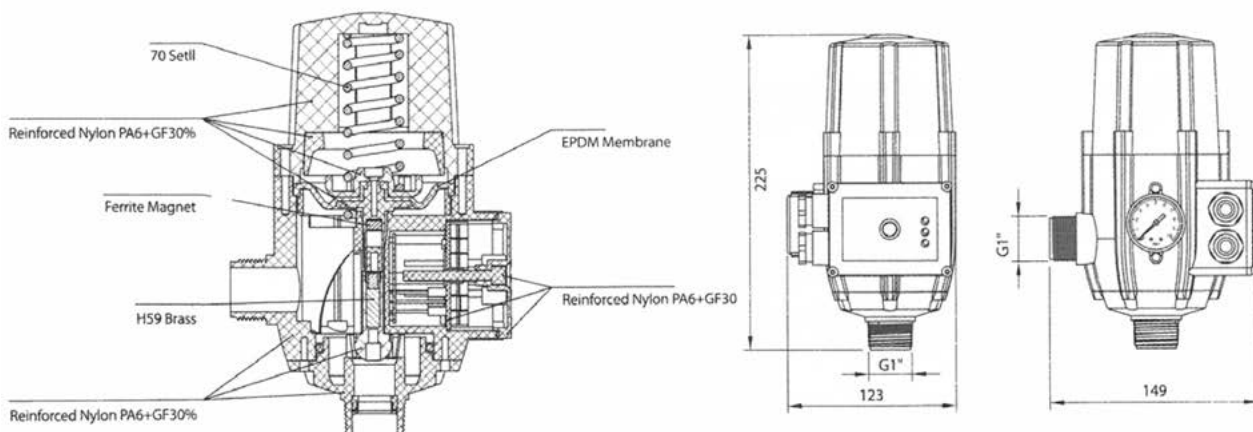
FLOW CONTROL SWITCH
SKD-11

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

Note: Use separate non-return valve with this device.

TECHNICAL FEATURES

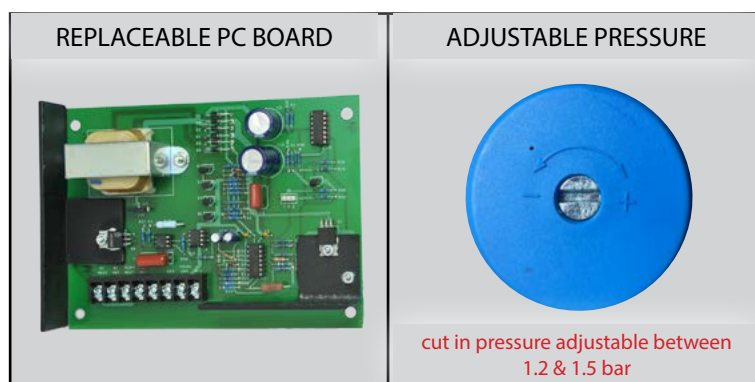|	
Rated Voltage:	220VAC, 50Hz
Maximum current:	30 Amp
Protection grade:	IP65
Starting pressure:	1.2 bar
Maximum pressure:	10 bar
Inlet/outlet size:	(1¼" x 1¼") BSP

REPLACEABLE PC BOARD

ADJUSTABLE PRESSURE

cut in pressure adjustable between 1.2 & 1.5 bar

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

Reinforced Nylon PA6+GF30%

70 Setll

EPDM Membrane

Ferrite Magnet

Reinforced Nylon PA6+GF30%

H59 Brass

ABS Plastci

G1 1/4

G1 1/4

252

175

210
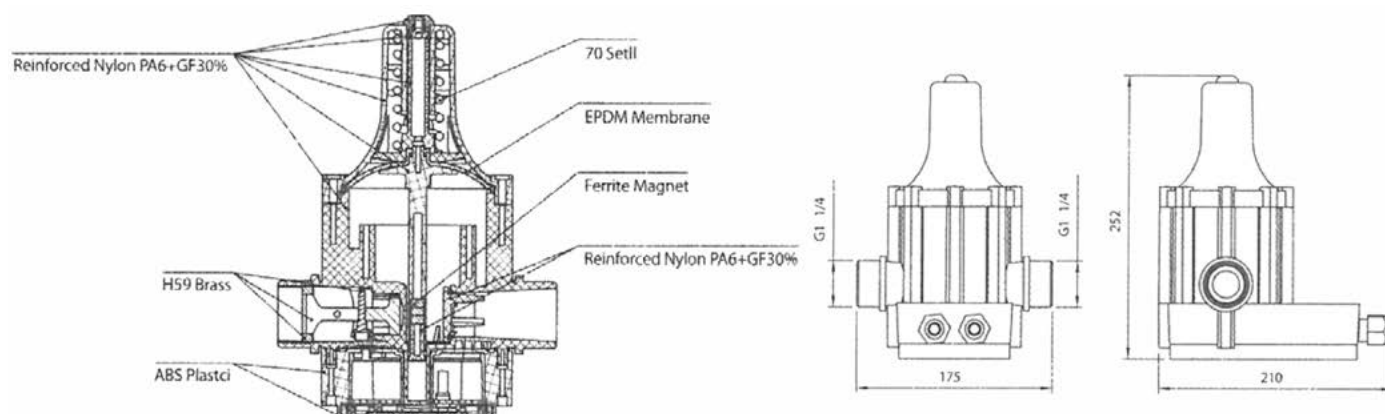
FLOW CONTROL SWITCH
PS06-1C

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 DESIGN

Prevents freqent stop / start in systems with a slow leak.
Prevents over pressurising of delivery 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:	1.5kW	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.

NOTE:

PS06-1C is a dual function controller. Internal toggle switch factory setting is MODE 1.

MODE 1 is pressure sensing setting and requires that both cut in and cut out pressure fall within the duties attainable by the pump. (Cut out pressures setting not at higher level than pump capability.) In case where this setting is higher than pump shut-off capability, controller will register fault condition and warning light will flash for 30 second intervals. After 30 seconds, pump will shut off and immediatly on again if duty conditions remain. Should duty conditions require that pump continues running, the timing intervals will lengthen by 30 second after every switch off. Example: 30sec - 1min - 1min 30sec etc.
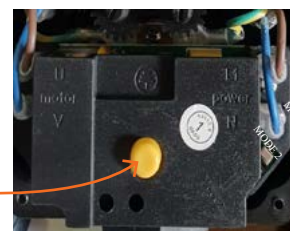Internal toggle switch can be set to MODE 2, which will transform unit to operate as flow control switch (without pressure setting sensitivity).

Cut-in pressure indicator to be adjusted to minimum of 1 Bar.
Cut-out pressure indicator to be set under and within 1 Bar of pump maximum head capability.

The pressure adjustable capability of this device is recommended for fine tuning and not for correction of incorrect pump selection.

Switch

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