



C.R.I. PUMPS
Pumping trust. Worldwide.

The perfect complement to Pumps



Pump Accessories from C.R.I.

With the accent on reliability and superlative performance. Manufactured under stringent quality control parameters and tested to ensure fail-safe performance even under adverse conditions. Specifically designed to complement the water pumps. The accessories featured here include everything from Electronic Pressure Control, Float Switches, Mechanical Switches, Pressure Tanks, Control Boxes and other Pumping accessories that deliver on the promise.

Electronic Pressure Control

C.R.I. Electronic Pressure Control Switch is yet another quality & reliable product from the house of CRI which is carefully designed to regulate the water pressure in the domestic water supply system. It switches ON the pump automatically whenever there is a pressure drop in the pipeline and maintains preset level of pressure in the pipe line. It also switches off the pump automatically whenever pumping is not required and there by makes the entire pumping system effective and efficient. The preset pressure level drops as and when the water is drawn. Likewise once the pipeline is closed it completely switches OFF the pump automatically after few seconds. The inbuilt check valve & logic circuit system protect the pump from back flow of water & dry running which enhance the life span of the pump.

Certain models of vertical type pressure controls are inbuilt with adjustable pressure gauge wherein the pressure can be set manually based on the requirement.

Application

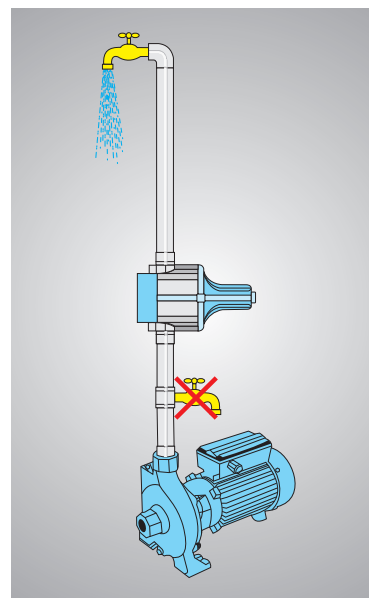
It can be used for all kinds of small domestic pumps installed in apartments, houses, villas, gardens etc.,

Special Features

- Sets free from operating the pump every time
- Ensures uninterrupted water supply with adequate pressure
- Saves electricity & time
- Protects pump from dry running & back flow of water
- Different models to select. CPV models are supplied with inbuilt pressure gauge
- Colourful LED's to indicate various functions
- Designed for easy installation

TECHNICAL DATA	
Ambient Temperature	Maximum + 60°C
Liquid Temperature	Maximum + 60°C
Cut in Pressure	CPH 15, CPV 15 : 1.5 bar CPH22 : 2.2 bar, CPV 3A (1.5 to 3.0 bar)
System Pressure	Maximum 10 bar
Supply voltage	220 / 240 V
Frequency	50 / 60 Hz.
Maximum Current	10 Amps
Enclosure Class	IP 65

Identification Code	
C	C.R.I.
P	Pressure
V	Vertical (V) / Horizontal (H)
3	3.0 bar
A / N / S Optional	Adjustable / New Model / 60Hz



CPV-15
CPV-3A



CPV-15N



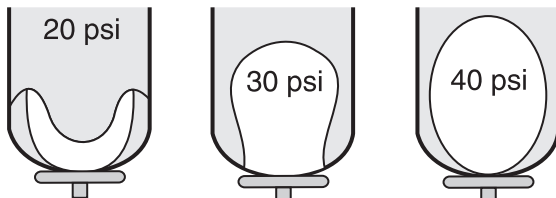
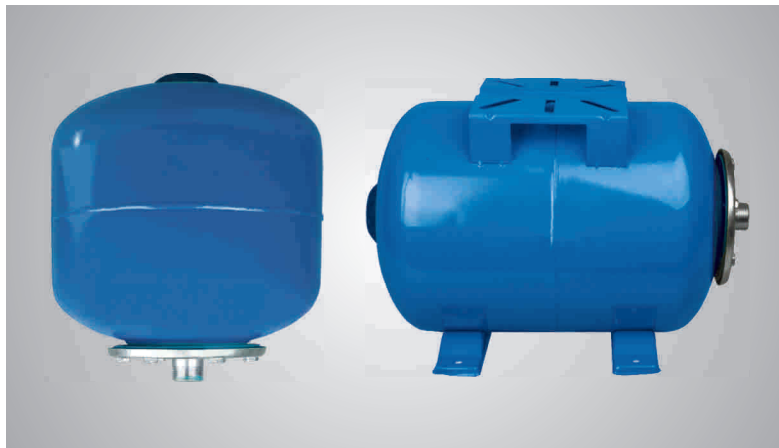
CPH-15
CPH-22

CPH-15N

Pressure Tanks

C.R.I. Pressure tank is one another reliable product from the house of CRI having 4 decades of expertise in pump industry. C.R.I. pressure tanks are ingeniously designed with perfection for delivering optimal performance. The butyl/natural rubber membrane provided in all the models ensures finer and trouble free performance. These tanks are used for pressure boosting applications to fetch self-sustained supply of pressurized water in the pipeline evermore especially in houses, apartments & hotels.

Pressure tank eliminates the need of overhead tanks & float switch. The electro mechanical control, switches ON & OFF the pump automatically whenever pressure reaches the minimum & maximum level of preset pressure. The smaller capacity tanks are vertical in shape, which can be fixed directly to the outlet of the pump, whereas bigger capacity tanks are horizontal / vertical in shape with legs and the pumps can be fitted over the platform provided on the top. A 5 way connector, electro mechanical control, hose connector & pressure gauge are the common accessories used along with the pressure tanks. The pressure can be preset. The pressure will be developed in the membrane based on the maximum operating head (in bars) of the pump.



Identification Code

C	C.R.I.
T	Tank
H	Horizontal (H) / Vertical (V)
2	Tank Capacity - 2/12/24/60/100 in Litres
C	Carbon (C) / Stainless Steel (S) Body
N	Butyl Diaphragm (B) / Natural Rubber (N)

TANK DETAILS

S/N	Model	Capacity l	Packing Size (MM)	Gross/ Nett Weight (Kg)	Connector Size (Inch)
1.	CTV 100	100 l	460 x 460 x 800	15/13	1"
2.	CTH 100	100 l	480 x 455 x 680	15/13	1"
3.	CTV 80	80 l	460 x 460 x 760	14/12	1"
4.	CTH 80	80 l	480 x 455 x 600	14/12	1"
5.	CTV 60	60 l	460 x 460 x 650	12/10.50	1"
6.	CTH 60	60 l	480 x 455 x 490	12/10.50	1"
7.	CTV 50	50 l	360 x 360 x 650	7.5/6	1"
8.	CTH 50	50 l	355 x 390 x 560	7.5/6	1"
9.	CTH 36	36 l	360 x 390 x 450	7/6	1"
10.	CTV 36	36 l	360 x 360 x 550	6.5/5.5	1"
11.	CTV 24	24 l	280 x 280 x 450	5/3.8	1"
12.	CTH 24	24 l	300 x 280 x 450	5.5/4.5	1"
13.	CTV 24	24 l	360 x 360 x 400	5/4	1"
14.	CTS 24	24 l	360 x 360 x 390	5/4	1"
15.	CTV 19	19 l	280 x 280 x 400	4.5/3.5	1"
16.	CTH 19	19 l	280 x 300 x 400	5.5/4.5	1"
17.	CTV 12	12 l	280 x 280 x 300	3.5/2.8	1"
18.	CTV 8	8 l	210 x 210 x 340	2.5/2	1"
19.	CTV 5	5 l	160 x 160 x 300	2/1.5	1"
20.	CTV 2	2 l	130 x 130 x 200	1/0.8	1"
21.	CTV 1	1 l	130 x 360 x 150	1/0.7	1"
22.	CTV 40	40 l	360 x 360 x 580	7.5/6.5	1"
23.	CTH 40	40 l	360 x 390 x 480	8/7	1"
24.	CTV 24	24 l	280 x 280 x 550	5.5/4.5	1"

Advantages

- Sets free from operating the pump every time manually
- Eliminates need of overhead tank & float switch
- High quality food grade rubber membrane for hygienic water supply
- Ensures uninterrupted water supply with adequate pressure always
- Saves water, electricity & time
- Designed for easy installation

Mechanical Pressure Control

This pressure controller is one of the vital accessories to the pressure boosting systems which is commonly used along with pressure tanks. This can be fixed directly to the small domestic pumps. This is yet another innovative product that bears C.R.I. hallmark of excellence.

Working Principle

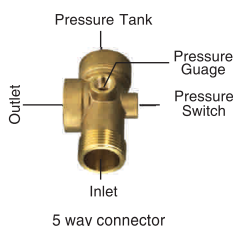
This is an electro mechanical device that senses the changes in pressure and switches ON & OFF the pump automatically as per the preset minimum & maximum pressure levels. It regulates the pressure in the water supply system and keeps the pressure always within the limits of the preset levels. These controllers are available with both male and female thread connections and have three different preset pressure levels which can be selected based on the requirement or capacity of the pump.



HOSE CONNECTOR



PRESSURE GAUGE



5 way connector



TECHNICAL DETAILS

Lowest Pressure	20 psi
Highest Pressure	80 psi
Pressure settings	20-40 psi; 30-50 psi; 40-60 psi
Volt	230 V A.C.
Max. Current	2.0 HP - 12 Amps 3.0 HP - 17 Amps
Connector threads	Male / Female

Note: 1 bar = 1.02 kgf / cm² = 14.5 psi = 33.52 feet of water.

Float Switch

Description

C.R.I. Float switch is a state-of-the-art product from the house of C.R.I. which has earned a unique place in the pump industry and is recognised both for its standards & quality for over 4 decades. It sets you free from operating the pump. It also helps you to save water, electricity and your valuable time.



Applications

Houses, Multi-storeyed apartments, Factories, Hospitals, Hostels, Commercial centers, Hotels and Restaurants, Schools & colleges and all places with water tanks.

Features

- Sets you free from operating your pump every time
- Ensures uninterrupted water supply
- Never allows your over head tank to spill over or be empty
- Eliminates water, power & time wastage
- Protects pump from dry run
- Absence of rigid or fixed part inside the tanks makes cleaning easy

SPECIFICATIONS

Maximum Current	10 (4) Amps / 16(4) Amps
Voltage Range	125 - 250V, AC
Frequency	50 / 60Hz
Maximum Working Temperature	55°C
Degree of Protection	IP 68
Maximum Immersion Depth	10 meters
Cable	Rubber Insulated 3 Core round cable
Cable Size	1.0 & 1.5m ²
Cable length	1.5m & 2.0m
Operation in specific gravities	From 0.9 to 1.3
Float Dimensions	(L) : 135mm (B) : 51mm, (H) : 43mm

Control Box

SUITABLE FOR SINGLE PHASE & THREE PHASE MOTORS

An essential part of your pumping system, the C.R.I. Control Box incorporates surge arresters to ensure complete protection during power fluctuations, dry running etc. The Control Box comes with a float switch for the automatic operation of the pumpset.



Features of Control Box with Surge Arrester and Pump Protection Relay (PPR)

- Incorporated with surge arresters to protect the pumping system from high voltage surges caused by lightning and operation of switches on the main power distribution lines
- Technically advanced, highly sensitive pump protection relay (PPR) enables immediate tripping of power supply in overload and under load conditions
- Protects the pumpsets against dry running by sensing the current
- Quick tripping in phase failure and imbalancing voltage conditions
- Control boxes with PPR, comprises of auto start provision and phase sequence protection
- An option for float switch is provided in the control boxes with PPR, for the automatic operation of the pumpset based on water level
- Provision of Ammeter and Voltmeter to check the Voltage in specific models
- Specific models are provided with lock and key provision for safety and security purpose
- Attractive powder coated sheet metal enclosure

Description

C.R.I. Control Boxes are made of hi-tech components and designed to perfection with various features to give ultimate protection to the prime movers such as Submersible motors, Centrifugal pumps etc. (All the C.R.I. single-phase submersible motors are supplied with suitable control boxes, which is mandatory). Different types of single-phase and three-phase control boxes are available which can be selected according to the control measures and features required.

Applications

These control boxes can be used to control and protect all kinds of prime movers especially submersible motors, Centrifugal pumps etc, used for various applications.

SPECIFICATIONS - 1 Phase - 220 V - 230 V	
Models available	Smart, Smart Plus, Standard
Power range	0.37 kW to 2.2 kW - Capacitor Start & Capacitor Run (CSCR)
Versions	Single phase, 220 V / 230 V, 50 Hz, A.C.
Degree of Protection	IP 55 (Standard) IP 52 (Smart & Smart plus)

SPECIFICATIONS - 3 Phase - 380 V - 415 V	
Models available	Dynamic & Supreme
Power range	0.37 kW to 75 kW - Direct On Line (D.O.L.) 5.5 kW to 75 kW - Star Delta (S.D.)
Versions	Three phase, 380 V - 415 V, 50 Hz, A.C.
Degree of Protection	IP 52

Control Box Models & Component Details 50 & 60Hz

Control Box Model	Type / Phase	Components	IP
Smart	CSR / 1 Ph	Run Capacitor, Over load Protector, PVC Connector, on/off switch, Housed in a plastic enclosure.	IP 52
Smart Plus	CSCR / 1 Ph	Start Capacitor, Over load Protector, PVC Connector, Run Capacitor, QD Relay, Powder Coated MS Box. No on/off switch will be provided so the control has to be made externally.	IP 52
Standard	CSCR / 1 Ph	Start Capacitor, Run Capacitor, QD Relay, PVC Connector, On/Off Rotary Switch, MCB, Powder Coated MS Box.	IP 55
Dynamic	D.O.L./ 3 Ph	Contactor, PPR, CT Coil, On/Off Switch, MCB / Load Breaking switch, Surge Arrestor, Ammeter, Voltmeter, Powder Coated MS Box with Lock & Key	IP 52
Supreme	S.D./ 3 Ph	Contactor with inbuilt Timer, PPR, CT Coil, On / Off Switch, Surge Arrestor, MCB, Load Breaking Switch, Ammeter, Voltmeter, Powder Coated MS Box with Lock & Key	IP 52

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