



C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

C.R.I. PUMPS FIRE PROTECTION SYSTEMS



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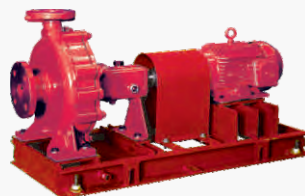
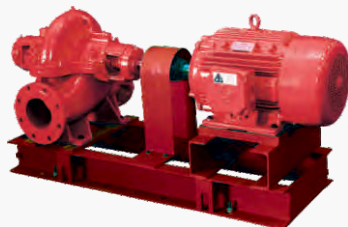
C.R.I. Pumps has expertise in designing and manufacturing of fire pumps and its controllers since more than a decade and we are pioneered in the field of fire fighting pumps by delivering highly efficient and innovative products to suit the demands of fire protection consultants. The most important aspect of fire protection package is the reliability of the fire fighting pumping system to ensure adequate water supply at required pressure at emergency conditions. C.R.I. pump is manufacturing wide range of fire fighting pumps and controllers and exporting to various countries which is widely accepted in international market. The quality of each product is monitored at each stage of production to make sure that each product delivered to customer is the best. C.R.I. is offering various types of pumps for fire protection system such as split case, end suction and vertical inline pumps. These pumps are manufactured with stringent quality process to meet the customer expectations and trouble free operation for years.



FIRE PROTECTION PUMP PACKAGES

Standard fire fighting pumpsets for jockey, sprinkler and hydrant systems

Electric motor driven pump sets



Engine driven pump sets



Controllers



C.R.I. is offering controllers for both electric and engine driven pumps as per standard fire protection system requirements and electric driven controllers are available for various method of starting which include direct on line, star delta, auto transformer, soft starter etc. Diesel driven pump controllers have 12V or 24V DC supply, completely wired and connected to the pump package and it is mounted on the base plate

Application

- | High rise buildings | Apartments | Commercial complexes | Hospitals | Off shore & on shore platforms
- | Refineries | Warehouses | All chemical and petrochemical industries
- | Airports & metro rail stations | Ports | Power plants & substations | Industries

DESIGN FEATURES

Casing

Casings are specially designed to withstand high pressure and it is provided with replaceable wear ring to maintain desired hydraulics except multistage vertical inline pumps. Cast Iron is the standard MOC and CF8M also can be supplied on request

Impeller

The dynamically balanced bronze impeller being used in all the pumps to ensure smooth and vibration free operation & impeller wear rings are an available option. All vertical multistage pumps are being supplied with fabricated stainless steel impellers.

Shaft

The shafts are stainless steel, machined and ground to close tolerances. They are sized to transmit the torque and handle the imposed hydraulic loads, all the while maintaining a minimum amount of deflection under any flow condition.

Shaft sleeves

To protect the shaft against wear and corrosion, replaceable stainless steel shaft sleeves are provided.

Casing wear ring

Bronze wear rings provide the sealing between the suction and discharge areas of the casing.

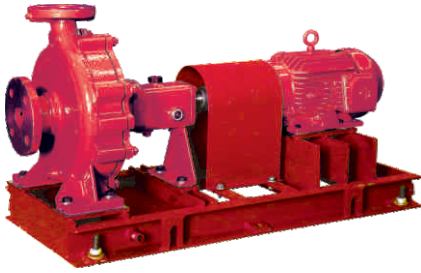
Bearings

Heavy duty Grease lubricated ball bearings are provided.

Stuffing Box

Stuffing boxes are provided with gland packing or mechanical seal but single stage and multistage vertical inline pumps are provided with cartridge seal and DIN seal only

ECW Series



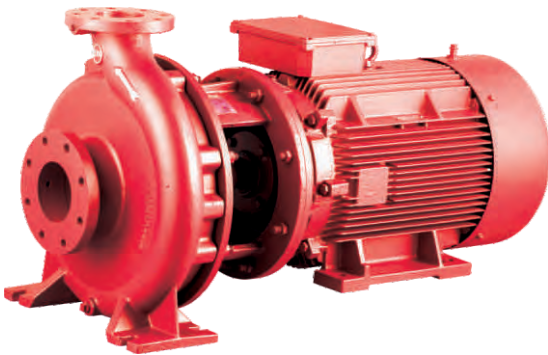
Specification

Flow	-	upto 273 m ³ /hr
Head	-	upto 88 m
Delivery size	-	upto 150 mm
Speed	-	1450 / 2900 RPM
Max pressure	-	16 bar
Liquid Temperature	-	upto 90°C
MOC	-	Cast Iron & Bronze
Optional	-	Stainless Steel

Design features

! Back pull out, compact and rigid design ! Dynamically balanced rotating parts ensuring minimum vibrations ! Wide hydraulic ranges ! Various material options (cast iron, bronze and stainless steel) and different seal constructions ! Pump flanges complies to DIN Standards

CCW Series



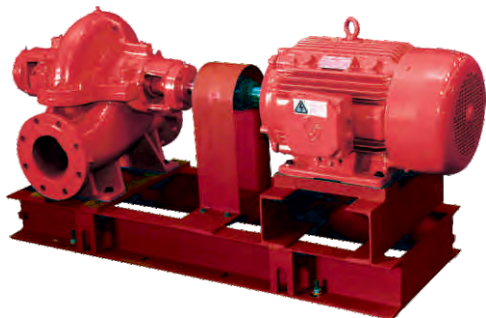
Specification

Flow	-	338 m ³ /hr
Head	-	55 m
Power	-	upto 45 kW
Delivery size	-	upto 150 mm
Speed	-	1450 / 2900 RPM
Max pressure	-	16 bar
Liquid Temperature	-	upto 90°C
MOC	-	Cast Iron & Bronze
Optional	-	Stainless Steel

Design features

! Back pull out, compact and rigid design ! Dynamically balanced rotating parts ensuring minimum vibrations ! Wide hydraulic ranges ! Various material options (cast iron, bronze and stainless steel) and different seal constructions ! Pump flanges complies to DIN Standard

SCW Series



Specification

Flow	-	upto 700 m ³ /h
Head	-	upto 100 m
Delivery size	-	upto 200 mm
Speed	-	960 / 1450 / 2900 RPM
Max pressure	-	16 bar
Liquid Temperature	-	upto 90°C
MOC	-	Cast Iron & Bronze
Optional	-	Stainless Steel

Design features

- ! Double suction impeller with lower NPSHr
- ! Dynamically balanced rotating parts ensuring minimum vibrations
- ! Wide hydraulic ranges
- ! Various material options (cast iron, bronze and stainless steel) and different seal constructions
- ! Pump flanges complies to DIN Standards
- ! Pump bearing can be replaced without removing top casing

Vertical Inline Pumps – Multi stage MV series

Specification

Flow	-	upto 60 m ³ /hr
Head	-	upto 275 m
Delivery size	-	upto 100 mm
Speed	-	2900 RPM
Max pressure	-	32 bar
Liquid Temperature	-	upto 90°C
MOC	-	Stainless Steel

Design features

- ! Compact and rigid design
- ! Top pull out compact vertical pump where limited space is available
- ! Precise parts made with rust free stainless steel
- ! Wide hydraulic ranges
- ! Pump flanges complies to DIN
- ! Mechanical seal can be replaced without dismantling of pump





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