



C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

A FULLY INTEGRATED
SYSTEM TO PROVIDE
COST EFFECTIVE
PUMPING SOLUTIONS FOR

**PETROCHEMICAL
& REFINERY**



NOT JUST PUMPS, COMPLETE SYSTEMS THAT PROVIDE AFFORDABLE SOLUTIONS

True to the affirmation, not just pumps, solutions, C.R.I. has always looked at the larger picture to ensure that customers get what they expect – results. With a keen understanding of customer expectations worldwide, the company brings to the fore its considerable resources in terms of infrastructure, In-house R&D and an innate perception of ground realities to bring in innovative solutions that has most often set the benchmark.

ROBUST CONSTRUCTION TO TAKE ON THE CHALLENGE

The oil, gas and petroleum industry demand pumping solutions that can withstand the toughest conditions. C.R.I. offers solutions, proven across the globe, that meets this challenge with a complete system integrated to work to perfection. Everything from gasoline transfer, chemical transfer to injection tasks and steam stripping can be taken on with ease. What's more, C.R.I. has the right combination to meet specific requirements. That's why customers across the world rely on C.R.I. for dosing, metering or transfer applications.





ECW SERIES

EN733 - END SUCTION PUMP

Application

- Clear Chemical Transfer
- Utility water supply
- Hot and cold water circulation
- Back wash in desalination and effluent treatment plant
- Fire water service
- Chilling plant application



Specifications	50Hz	60Hz
Flow	upto 600 m ³ /hr	upto 2641 GPM
Head	upto 160 m	upto 524 Feet
Outlet Size	upto 150 mm	upto 6" inch
Power	upto 200 kW	upto 268 hp
Speed	960/1450/2900 RPM	1800/3600 RPM
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 90°C	upto 194°F
Flange Standard	DIN	ANSI / DIN
Material of Construction (MOC)	Cast Iron & Bronze	Cast Iron & Bronze
Optional	Stainless steel, Duplex, Super Duplex & Alloy steels	Stainless steel, Duplex, Super Duplex & Alloy steels

CCW SERIES

CLOSE COUPLED PUMP

Application

- Utility water supply
- Fire water service



Specifications	50Hz	60Hz
Flow	upto 550 m ³ /hr	upto 2641 GPM
Head	upto 95 m	upto 524 Feet
Outlet Size	upto 150 mm	upto 6" inch
Power	upto 45 kW	upto 60 hp
Speed	1450/2900 RPM	1800/3600 RPM
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 90°C	upto 194°F
Flange Standard	DIN	ANSI / DIN
Material of Construction (MOC)	Cast Iron & Bronze	Cast Iron & Bronze
Optional	Stainless steel, Duplex, Super Duplex & Alloy steels	Stainless steel, Duplex, Super Duplex & Alloy steels

SCW SERIES

HORIZONTAL SPLIT CASE PUMP

Application

- Cooling Tower Applications,
- Cooling water circulation
- Utility water supply
- Fire fighting application
- Chilling plant applications
- Raw water supply



Specifications	50Hz	60Hz
Flow	upto 4200 m ³ /hr	upto 17611 GPM
Head	upto 170 m	upto 490 Feet
Outlet Size	upto 450 mm	upto 18" inch
Power	upto 1460 kW	upto 1206 hp
Speed	960/1450/2900 RPM	900/1100/1750 RPM
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 90°C	upto 194°F
Flange Standard	DIN / ANSI	DIN / ANSI
Material of Construction (MOC)	Cast Iron & Bronze	Cast Iron & Bronze
Optional	Stainless Steel, Duplex, Super Duplex & Alloy steels	Stainless Steel, Duplex, Super Duplex & Alloy steels

VS & VC SERIES

VERTICAL INLINE CLOSE COUPLED PUMP

Application

- Clear Chemical Transfer
- Utility water supply
- Hot and cold water circulation
- Back wash in desalination and effluent treatment plant
- Fire water service,
- Chilling plant application



Specifications	50Hz
Flow	upto 503 m ³ /hr
Head	upto 96 m
Outlet Size	upto 200 mm
Power	upto 90 kW
Speed	1450/2900 RPM
Max. Working Pressure	upto 16 bar
Liquid Temperature	upto 90°C
Flange Standard	DIN
Material of Construction (MOC)	Cast Iron & Bronze

* Contact manufacturer for 60Hz requirement

ECC SERIES

ANSI B 73.1 - END SUCTION CHEMICAL PUMP

Application

- Non API & non flammable chemical transfer
- Oil circulation
- Condensate water supply
- Chemical dosing in effluent treatment plant
- Transfer of thermic fluid



Specifications	50Hz	60Hz
Flow	upto 720 m ³ /hr	upto 4400 GPM
Head	upto 110 m	upto 649 Feet
Outlet Size	upto 200 mm	upto 8" inch
Power	upto 150 kW	upto 200 hp
Speed	970/1450/2900 RPM	900/1200/1800/3600 RPM
Max. Solid Size	upto 52 mm	upto 2" inch
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 260°C	upto 500°F
Flange Standard	ANSI	ANSI
Material of Construction (MOC)	Stainless Steel & Alloy steels	Stainless Steel & Alloy steels
Optional	Duplex & Super Duplex	Duplex & Super Duplex

ECP SERIES

END SUCTION PROCESS PUMP

Application

- Waste oil transfer
- Effluent treatment plant
- Desalination plant
- Utility water supply



Specifications	50Hz	60Hz
Flow	upto 2500 m ³ /hr	upto 15850 GPM
Head	upto 100 m	upto 311 Feet
Outlet Size	upto 350 mm	upto 14" inch
Power	upto 315 kW	upto 420 hp
Speed	720/970/1450 RPM	900/1200/1800 RPM
Max. Solid Size	upto 95 mm	upto 3¾" inch
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 90°C	upto 356°F
Flange Standard	ANSI	ANSI
Material of Construction (MOC)	Cast Steel & Stainless Steel	Cast Steel & Stainless Steel
Optional	Duplex, Super Duplex & Alloy steels	Duplex, Super Duplex & Alloy steels

VERTICAL SUMP PUMPS

Application

- Waste Water & Effluent water Transfer
- Chemical transfer
- Condensate water supply
- Utility water supply
- Auxiliary and emergency oil pump in captive power plant

Specifications	50Hz	60Hz
Flow	upto 1500 m ³ /hr	upto 6604 GPM
Head	upto 110 m	upto 360 Feet
Outlet Size	upto 250 mm	upto 10" inch
Power	upto 200 kW	upto 268 hp
Speed	720/970/1450/2900 RPM	900/1200/1750 RPM
Max. Solid Size	upto 60 mm	upto 2¼" inch
Max. Working Pressure	upto 16 bar	upto 16 bar
Liquid Temperature	upto 100°C	upto 212°F
Flange Standard	DIN / ANSI	DIN / ANSI
Material of Construction (MOC)	Cast Iron, Stainless Steel & Alloy Steels	Cast Iron, Stainless Steel & Alloy Steels
Optional	Duplex & Super Duplex	Duplex & Super Duplex



VTP SERIES

VERTICAL TURBINE PUMP

Application

- Raw water intake and supply
- Cooling water circulation
- Cooling tower application

Specifications	50Hz	60Hz
Flow	upto 10000 m ³ /h	upto 44028 GPM
Head	upto 200 m	upto 656 Feet
Outlet Size	upto 900 mm	upto 36" inch
Power	upto 2100 kW	upto 1340 hp
Speed	960/1450/2900 RPM	600/720/900/1200/1750/3500 RPM
Max. Working Pressure	upto 25 bar	upto 20 bar
Liquid Temperature	upto 90°C	upto 194°F
Flange Standard	DIN / ANSI	DIN / ANSI
Material of Construction (MOC)	Cast Iron, Bronze & Stainless steel	Cast Iron, Bronze & Stainless steel
Optional	Duplex & Super Duplex	Duplex & Super Duplex



HMW SERIES

HORIZONTAL MULTISTAGE PUMP



Application

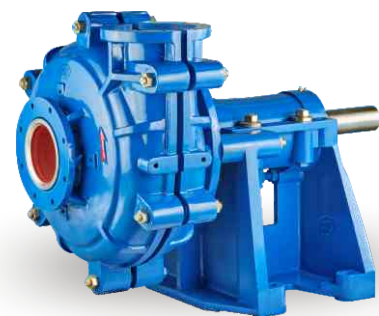
- High Pressure application in DM/RO plant
- Boiler feed Water supply
- Utility water supply
- Fire water service

Specifications	50Hz
Flow	upto 810 m ³ /hr
Head	upto 1110 m
Outlet Size	upto 300 mm
Power	upto 1300 kW
Speed	960/1450/2900 RPM
Max. Working Pressure	upto 30 bar
Liquid Temperature	upto 90°C
Flange Standard	DIN / ANSI
Material of Construction (MOC)	Cast Iron & Bronze
Optional	Stainless Steel, Duplex, Super Duplex & Alloy steels

* Contact manufacturer for 60Hz requirement

ECH SERIES

END SUCTION SLURRY PUMP



Application

- Chemical slurry and Sludge transfer applications

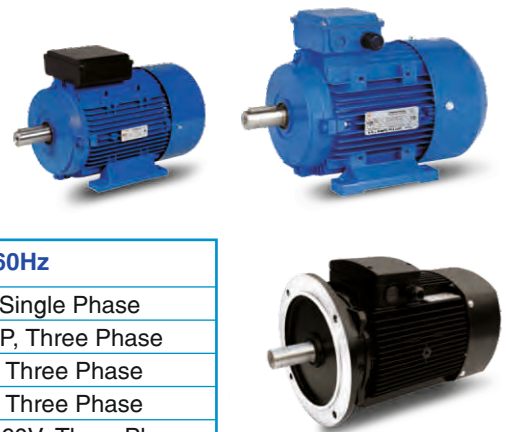
Specifications	50Hz
Flow	upto 3000 m ³ /hr
Head	upto 96 m
Outlet Size	upto 350 mm
Power	upto 315 kW
Speed	720/970/1450 RPM
Max. Solid Size	upto 127 mm
Max. Working Pressure	upto 16 bar
Liquid Temperature	upto 90°C
Flange Standard	ANSI
Material of Construction (MOC)	Cast Iron with 2% Ni, Hi-Chrome

* Contact manufacturer for 60Hz requirement

ENERGY EFFICIENT MOTORS

Application

- To be coupled with pumps for various applications
- Various applications in industries



Specifications	50Hz	60Hz
Power Range (in KW)	0.37 to 2.2, Single Phase	0.5HP to 3HP, Single Phase
Power Range (Standard)	0.37 to 315 kW, Three Phase	0.5HP to 422HP, Three Phase
Power Range (IE2)	0.75 to 315 kW, Three Phase	1HP to 422HP, Three Phase
Power Range (IE3)	0.75 to 315 kW, Three Phase	1HP to 422HP, Three Phase
Rated Voltage	380/400/415V, Three Phase	230V / 380V /460V, Three Phase (Triple Voltage design upto 30HP)
	220/230V, Single Phase	220/230V, Single Phase
Pole	2/4/6 Pole	2/4/6 Pole
Frame Size	upto 355	upto 355
Class of Insulation	Class - F	Class - F
Degree of Protection	IP 55	IP 55
Mounting Type	Foot / Flange / Foot cum flange / Face Mounted motors (B3, B5, B35, B14)	Foot / Flange / Foot cum flange / Face Mounted motors (B3, B5, B35, B14)

* HT and flame proof motors on request

CONTROLLERS & CONDITION MONITORING SYSTEMS

Product Range - 0.37 kW - 315 kW

- VFD Controllers with single & Multi pump options
- Soft starter
- Auto transformer starter
- Pressure boosting pump controller
- HVAC Controller
- Fire pump controller
- Sewage pump controller
- Customized controller
- Wireless condition monitoring system



VALVE RANGES

GATE VALVE

Product Range	
Size	2" to 24"
Type	Bolted Bonnet, OS & Y, Flexible Wedge
End Connection	Flanged End / Butt Weld End
Rating	ASME Class 150# to 600#
Operation	Hand Wheel, Gear Operated/ Pneumatic & Electrical (Optional)

Standards	
Valve Design	API 600
Valve face to face	ASME B 16.10
Pressure & Temperature Rating	ASME B16.34
Flange Standard	ASME B 16.5
Testing Standard	API 598
Trim & Seating surface as per API 600 Standard	



GLOBE VALVE

Product Range	
Size	2" to 12"
Type	Bolted Bonnet, OS & Y, Narrow Seat Type Disc
End Connection	Flanged End/ Butt Weld End
Rating	Class 150, Class 300 & Class 600
Operation	Hand Wheel , Gear Operated/ Pneumatic & Electrical (Optional).

Standards	
Valve Design Standard	BS 1873
Valve face to face	ASME B16.10
Pressure & Temperature Rating	ASME B 16.34
Flange Standard	ASME B 16.5
Testing Standard	API 598



FLOATING BALL VALVES 2 PIECE

Product Range	
Size	2" to 8"
Bore	Full Bore & Reduced Bore
End Connection	Flanged End
Rating	Class 150, Class 300
Operation	Hand Lever Operated, Pneumatic/Electrical (Optional)

Standards	
Valve Design standard	API 6D, ISO 17292/ASME B 16.34
Flange standard	ASME B 16.5
Valve Face to Face	ASME B 16.10, API 6D
Testing Standard	API 6D, API 598, EN12266
Top flange for actuator mounting	ISO 5211



FLOATING BALL VALVES 3 PIECE - CAST

Product Range	
Size	CI 1/4" to 8 & Forged 1/2" to 2"
Bore	Full Bore & Reduced Bore
End Connection	Flanged End / SW End / Threaded End
Rating	Class 150# to 800#
Operation	Hand Lever Operated, Pneumatic/Electrical (Optional)

Standards	
Valve Design standard	ISO 17292 / API 6 D
Flange standard	ASME B 16.5
Valve Face to Face	ASME B 16.10 / API 6 D
Testing Standard	EN 12266 / API 598
Top flange for actuator mounting	ISO 5211



CHECK VALVE

Product Range	
Size	2" to 24"
Type	Swing Check
End Connection	Flanged End/ Butt Weld End
Rating	Class 150, Class 300 & Class 600

Standards	
Valve Design Standard	BS 1868
Valve face to face	ASME B 16.10
Pressure & Temperature Rating	ASME B 16.34
Flange Standard	ASME B 16.5
Testing Standard	API 598



TRUNNION MOUNTED BALL VALVE

Features

- Waste Water, Effluent water Transfer
- Chemical transfer from Tanks and Vessels

Product Range	
Size	2" to 12"
Type	Two piece
Bore	Full Bore
End Connection	Flanged End
Rating	Class 150, Class 300 & Class 600
Operation	Hand Lever Operated upto 4"-300#, 4"-600# to 12-600# : Gear box Pneumatic/Electrical (Optional)

Standards	
Valve Design Standard	API 6D, ASME B 16.34 ,ISO17292
Valve face to face	API 6D / ASME B 16.10
Pressure Rating	150# to 600#
Flange Standard	ASME B 16.5
Testing Standard	API 6D, API 598 , EN 12266
Top flange for actuator mounting	ISO 5211



FLOATING BALL VALVES 3 PIECE - FORGED

Product Range	
Size	DN10 - DN65
Bore	Full Bore & Reduced Bore
End Connection	SW / SCR
Rating	Class 800#
Operation (Optional)	Hand Lever Operated, Pneumatic/Electrical

Standards	
Valve Design standard	ISO 17292
Flange standard	
✓ Socket Weld ends	ASME B 16.11
✓ Screwed (BSP)	ISO 7-1
✓ Screwed (NPT)	ASME B 1.20.1
Valve Face to Face	Manufacturer standard
Testing Standard	EN 12266
Top flange for actuator mounting	ISO 5211



FORGED GATE VALVE

Product Range	
Size	15 mm to 50 mm.
Rating	ANSI – Class 800, Class 1500 & Class 2500
Type	Bolted Bonnet & Welded Bonnet, 'OS' & 'Y' type rising Hand Wheel
End Connection	Socket End, Screwed End, Flanged End (Welded)

Standards	
Valve Design Standard	API 602
Socket End	ANSI B 16.11
Screwed End	(NPT) to ANSI / ASME B1.20.1
Testing Standard	As per API 598, BS 6755, PART 1



FORGED GLOBE VALVE

Product Range	
Size	15 mm to 50 mm.
Rating	ANSI - Class 800, Class 1500 & Class 2500#
Type	Bolted Bonnet & Welded Bonnet, 'OS' & 'Y' type rising Hand Wheel.
End Connection	Socket End, Screwed End, Flanged End (Welded)

Standards	
Valve Design Standard	As per BS 5352
Socket End	ANSI B 16.11
Screwed End	(NPT) to ANSI / ASME B1.20.1
Testing Standard	As per API 598, BS 6755, PART 1



FORGED CHECK VALVE

Product Range	
Size	15 mm to 50 mm
Rating	ANSI - Class 800, Class 1500, Class 2500
Type	Bolted Bonnet & Welded Bonnet, Piston Type Plug Spring loaded Plug & Renewable, Seat Ring
End Connection	Socket End, Screwed End, Flanged End (Welded)

Standards	
Design Standard	As per BS 5352
Socket End	ANSI B 16.11
Screwed End	(NPT) to ANSI/ASME B1.20.1
Testing Standard	As per API 598, BS 6755 PART 1



WAFER TYPE BUTTERFLY VALVE

Product Range	
Size Range	1 1/2" to 24"
Pressure Rating	PN10 / PN16
Type of Valve	Centric Disc Butterfly valve with Rubber Lined Body
Body Type	Single Piece, Short wafer or wafer lugged Extended Neck Body available
Seal Type	Integrally Bonded & Replaceable (EPDM, Nitrile, Viton, Hypalon)
Operation	Hand Lever, Gear Operation (Pneumatic & Electrical - Optional)

Standards	
Valve Design Standard	BS EN 593 / API 609 / IS 13095
Valve face to face	ISO 5752
Top flange drilling	ISO 5211
Valve inspection and testing	API 598 / IS 13095
Flange standard	ANSI 125 / ANSI 150 / BS 10 TAB D & E / IS 6392 NP 1.0 & 1.6 DIN 2501 – PN10 & PN16



OTHER PRODUCT RANGES

PIPES



	uPVC plumbing pipes	cPVC plumbing pipes	SWR Pipes	Pressure Pipes
Pipe sizes in mm	25 - 125	15 - 100	75A/B - 160A/B	20 - 400

	HDPE Pipes	Column Pipes	Well casing Pipes
Pipe sizes in mm	20 - 110	25 - 150	40 - 300

CABLES



Available sizes in Sq.mm	1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150 (3 core and 4 core) - 1100V
Available sizes in AWG	14, 12, 10, 8, 6, 4, 2, 1.1/0.2/0.3/0.4/0& 255MCM (3 core and 4 core) - 600V
Armoured available sizes in Sq.mm	1.5, 2.5, 4, 6, 10, 16, 25, 35 (3 core and 4 core) - 1100V

HOUSING WIRES



Available sizes in Sq.mm	0.5, 0.75, 1, 1.5, 2.5, 4, 6, 10, 16
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AGRICULTURE & RESIDENTIAL PRODUCTS

Product Range		
	Surface pumps	Bore hole pumps
Power	0.37 - 30 kW	0.37 - 300 kW
Head	upto 141 m	upto 850 m
Flow	upto 210 m ³ /h	upto 810 m ³ /h

Product Range		
	Surface pumps	Bore hole pumps
Power	upto 50 HP	upto 400 HP
Head	upto 265 ft	upto 3366 ft
Flow	upto 790 gpm	upto 3698 gpm



NOTES

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