

A FULLY INTEGRATED SYSTEM TO PROVIDE COST EFFECTIVE PUMPING SOLUTIONS FOR PHARMA INDUSTRY



NOT JUST PUMPS, COMPLETE SYSTEMS THAT PROVIDE AFFORDABLE SOLUTIONS

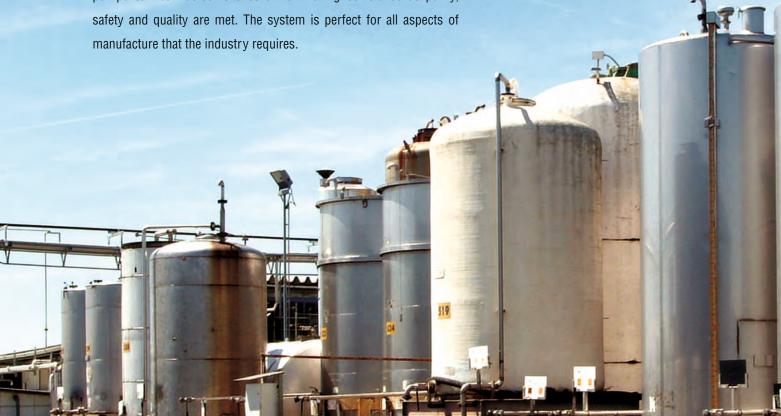
True to the affirmation, not just pumps, solutions, C.R.I. has always looked at the larger picture to ensure that customers get what they expect – results. With a keen understanding of customer expectations worldwide, the company brings to the fore its considerable resources in terms of infrastructure,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

PERFECTION IS THE KEY

For the pharmaceutical industry, C.R.I. has developed a complete system of pumps and accessories with the accent on quality that meets the highest sanitary standards. Everything from processing, unloading and dosing to mixing or transferring individual ingredients, C.R.I. ensures that it works to perfection. The range of pumps and accessories paired to work seamlessly eliminates risks of any contamination. Made of approved and certified stainless steel, the pumps can be trusted to ensure that the highest standards purity, safety and quality are met. The system is perfect for all aspects of manufacture that the industry requires









ECC SERIES

ANSI B 73.1 - END SUCTION CHEMICAL PUMP

Application

- Active additive transfer
- Filling of drugs
- Alcohol based solvent transfer
- Specialty chemical transfer
- Sanitary and hygienic liquid handling
- Sterilization in place(SIP) and Cleaning in place(CIP)
- Sterile and non sterile medium transfer
- Injection application
- Distillation process





ECP SERIES

END SUCTION PROCESS PUMP

- Active additive transfer
- Solvent transfer
- Effluent plant application



Specifications	50Hz	60Hz
Flow	upto 2500 m³/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 steel	Duplex, Super Duplex & Alloy steel

ECW SERIES

EN733 - END SUCTION PUMP

Application

- Cooling tower Application
- Fire water service
- HVAC application
- Utility water supply
- Hot & cold water supply
- Transfer of purified water

Specifications	50Hz	60Hz
Flow	upto 600 m³/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,	Stainless steel, Duplex,
	Super Duplex & Alloy steels	Super Duplex & Alloy steels



CCW SERIES

CLOSE COUPLED PUMP

- Utility water supply
- Hot & Cold water supply
- Fire water service
- HVAC System



Specifications	50Hz	60Hz
Flow	upto 550 m³/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,	Stainless steel, Duplex,
	Super Duplex & Alloy steels	Super Duplex & Alloy steels

SCW SERIES

HORIZONTAL SPLIT CASE PUMP

Application

- Cooling Tower Applications,
- Cooling water circulation
- Utility water supply



Specifications	50Hz	60Hz
Flow	upto 4200 m³/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,	Stainless Steel, Duplex,
	Super Duplex & Alloy steels	Super Duplex & Alloy steels

VS & VC SERIES

VERTICAL INLINE CLOSE COUPLED PUMP

- Hot & Cold water supply
- Fire water service
- Pressure Boosting
- HVAC System
- Utility water supply
- Pumping purified water

Specifications	50Hz
Flow	upto 503 m³/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



VERTICAL SUMP PUMPS

Application

- Sludge handling application
- Additives and emulsions transfer
- Spin bath & Effluent transfer applications
- Solvent Transfer applications

Specifications	50Hz	60Hz
Flow	upto 1500 m³/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 &	Cast Iron, Stainless Steel &
	Alloy Steels	Alloy Steels
Optional	Duplex & Super Duplex	Duplex & Super Duplex



MV SERIES

MULTISTAGE VERTICAL INLINE PUMPS

- Industrial boiler feed
- Cleaning in place(CIP) and Sterilization in place(SIP)
- Dust suppression system
- Utility water supply
- Pumping purified water
- High pressure application
- **RO System**
- Eye washer and body shower
- WFI (Water for injection)
- Distillation process

Specifications	50Hz	60Hz
Flow	upto 200 m³/hr	upto 450 GPM
Head	upto 320 m	upto 982 Feet
Outlet Size	upto 150 mm	upto 3" inch
Power	upto 110 KW	upto 60 hp
Speed	2900 RPM	3450 RPM
Max. Working Pressure	upto 32 bar	upto 32 bar
Liquid Temperature	upto 90°C, Optional - 120°C	upto 194°F, Optional - 392°F
Flange Standard	DIN	DIN / ANSI
Material of Construction (MOC)	Cast Iron, Stainless Steel	Cast Iron, Stainless Steel



WASTE WATER & DRAINAGE SOLUTIONS

- Various application in effluent treatment plant.
- Drainage applications
- Spin bath & Effluent transfer applications

Specifications	50Hz	60Hz
Model	GB / GA	GB / GA
Flow	upto 216 m³/h	upto 1080 GPM
Head	upto 65 m	upto 150 Feet
Outlet Size	upto 100 mm	upto 4" inch
Power	upto 50 kW	upto 50 hp
Speed	1450/2900 RPM	1750 / 3500 RPM
Max. Solid Size	upto 90 mm	upto 3½" inch
Liquid Temperature	upto 40°C	upto 104°F
Maximum immersion depth	upto 20 m	upto 65 Feet
Material of	CI with 0.3% Cu,	CI with 0.3% Cu,
Construction (MOC)	Ni and Mo	Ni and Mo



Specifications	50Hz	60Hz
Model	GT	GT
Flow	upto 30 m³/h	upto 120 GPM
Head	upto 60 m	upto 70 Feet
Outlet Size	upto 50 mm	1½" inch
Power	upto 9.5 kW	upto 8 hp
Speed	2900 RPM	3500 RPM
Max. Solid Size	upto 7 mm	upto ¼" inch
Liquid Temperature	upto 40°C	upto 104°F
Maximum immersion depth	upto 20 m	upto 65 Feet
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo	CI with 0.3% Cu, Ni and Mo



Specifications	50Hz	60Hz
Model	MC	MC
Flow	upto 504 m³/h	upto 1850 GPM
Head	upto 65 m	upto 140 Feet
Outlet Size	upto 150 mm	upto 6" inch
Power	upto 34 kW	upto 53 hp
Speed	1450/2900 RPM	1160 / 1750 RPM
Max. Solid Size	upto 100 mm	upto 4" inch
Liquid Temperature	upto 40°C	upto 104°F
Maximum immersion depth	upto 20 m	upto 65 Feet
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo	CI with 0.3% Cu, Ni and Mo



Specifications	50Hz	60Hz
Model	KC	KC
Flow	upto 2520 m³/h	upto 9400 GPM
Head	upto 66 m	upto 300 Feet
Outlet Size	upto 400 mm	upto 12" inch
Power	upto 185 kW	upto 250 hp
Speed	720/960/1450 RPM	900 / 1160 / 1750 RPM
Max. Solid Size	upto 165 mm	upto 6" inch
Liquid Temperature	upto 40°C	upto 104°F
Maximum immersion depth	upto 20 m	upto 65 Feet
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo	CI with 0.3% Cu, Ni and Mo



Specifications	50Hz
Model	MA
Flow	upto 36 m³/h
Head	upto 25 m
Outlet Size	upto 50 mm
Power	upto 2.6 kW
Speed	2900 RPM
Max. Solid Size	upto 40 mm
Liquid Temperature	upto 40°C
Maximum immersion depth	upto 20 m
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo



^{*} Contact manufacturer for 60Hz requirement

Specifications	50Hz
Model	MD / TP
Flow	upto 6702 m³/h
Head	upto 75 m
Outlet Size	NA
Power	upto 18.5 kW
Speed	200/250/960/1450 RPM
Max. Solid Size	NA
Liquid Temperature	upto 40°C
Maximum immersion depth	upto 20 m
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo



^{*} Contact manufacturer for 60Hz requirement

Specifications	50Hz
Model	AG
Flow	upto 1558 m³/h
Head	upto 22 m
Outlet Size	NA
Power	upto 22 kW
Speed	1450/2900 RPM
Max. Solid Size	NA
Liquid Temperature	upto 40°C
Maximum immersion depth	upto 20 m
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo



^{*} Contact manufacturer for 60Hz requirement

Specifications	50Hz
Model	SN
Flow	upto 216 m³/h
Head	upto 65 m
Outlet Size	upto 100 mm
Power	18 & 25 kW
Speed	960 RPM
Max. Solid Size	upto 10 mm
Liquid Temperature	upto 40°C
Maximum immersion depth	upto 20 m
Material of Construction (MOC)	CI with 0.3% Cu, Ni and Mo



^{*} Contact manufacturer for 60Hz requirement

Specifications	50Hz
Model	DRV
Flow	upto 150 m³/h
Head	upto 42 m
Outlet Size	upto 100 mm
Power	upto 10 kW
Speed	2850 RPM
Max. Solid Size	upto 10 mm
Liquid Temperature	upto 40°C
Maximum immersion depth	upto 20 m
Material of Construction (MOC)	Aluminium and Hi-Chrome



ENERGY EFFICIENT MOTORS

- To be coupled with pumps for various applications
- Various applictions 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 Insualtion	Class - F	Class - F
Degree of Protection	IP 55	IP 55
Mounting Type	Foot / Flange / Foot cum flange	Foot / Flange / Foot cum flange
	/ Face Mounted motors	/ Face Mounted motors
	(B3, B5, B35, B14)	(B3, B5, B35, B14)





^{*} Contact manufacturer for 60Hz requirement

^{*} 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

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



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



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

FORGED GATE VALVE

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

Standards		
Valve Design Standard	As per ISO 15761	
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		
Туре	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 ISO 15761
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



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

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 m³/h	upto 810 m³/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				





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