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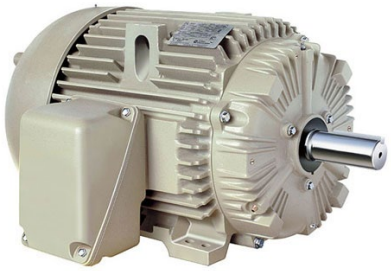

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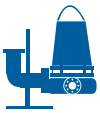
PENTAIR

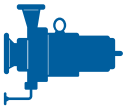
GRUNDFOS

MEET OUR **PUMPS**

RP MODEL		DESCRIPTION	DESIGN STANDARDS	OPERATING LIMITS		
	**CRP**	Single stage, end suction ISO process pump	DIN EN ISO 2858, ISO 5199 HI design (OH1)	Q = up to 500 m³/h H = up to 215 m	P = up to 25 bar T = up to 300 °C	RUHR^{CHEM} - CHEMICALS
	CRP-M	Sealless process pump with magnetic drive	DIN EN ISO 2858 & ISO 15783 (OH1)	Q = up to 500 m³/h H = up to 215 m	P = up to 16 bar T = - 120 to 450 °C	
	CPP / CPP-L	Single stage, end suction ANSI process pump (enclosed impeller)	ANSI B73.1 HI design (OH1)	Q = up to 1,150 m³/h H = up to 235 m	P = up to 26 bar T = - 45 to 315 °C	
	CPO / CPO-L	Single stage, end suction ANSI process pump (open impeller)	ANSI B73.1 H1 design (OH1)	Q = up to 1,590 m³/h H = up to 198 m	P = up to 26 bar T = up to 371 °C	
	CPA-M	Sealless process pump with magnetic drive	ANSI B73.3 H1 design (OH1)	Q = up to 500 m³/h H = up to 215 m	P =16 bar T = -120 to 450 °C	
	CLP	Sealless Fluorpolymer lined up pump with magnetic drive	DIN EN ISO 2858 & DIN 24256 (OH1)	Q = up to 300 m³/h H = up to 90 m	P = 16 bar T = -60 to 180 °C	
	**IVP / IVP-CC**	Vertical in-line pump in extended and close coupled configurations	HI design (OH4 / OH5)	Q = up to 2,271 m³/h H = up to 122 m	P = up to 19 bar T = -45 to 150 °C	RUHR^{PRO} - INDUSTRIAL
	**IRP**	Single stage, end suction industrial water-type pump	DIN EN ISO 2858 & DIN 24255 (OH1 & Close coupled)	Q = up to 681 m³/h H = up to 130 m	P = up to 10 bar T = up to 140 °C	
	**Combitube**	Single stage, pitot tube pump for low flow, high head applications	Industrial & API norms	Q = up to 80 m³/h H = up to 1,480 m	P = up to 160 bar T = up to 200 °C	
	**SWP**	Self-priming pump for solids handling applications	HI design (OH1)	Q = up to 1,476 m³/h H = up to 42 m	T = up to 70 °C	
	**PS**	Single stage, end suction, centrifugal solids handling stock pump	HI design (OH1)	Q = up to 1, 817 m³/h H = up to 91 m	P = up to 10 bar T = up to 144 °C	
	**ZW**	Horizontal & Vertical double suction, single sstage, split case pumps	HI design (BB1)	Q = up to 9,000 m³/h H = up to 340 m	P = up to 98 bar T = up to 120 °C	RUHR^{H2O} - WATER & WASTE
	**SO**	Single stage, end suction ISO Process pump	DIN EN ISO 2858, Transnorm, DIN 24256 (OH1)	Q = up to 2,800 m³/h H = up to 160 m	P = up to 25 bar T = -10 °C to 240 °C	
	**SHD / ESK SKO / SK / SKV / ST / STV**	Single stage, end suction pumps (solids handling)	HI design (OH1)	Q = up to 8,000 m³/h H =up to 116 m	P = up to 10 bar T = up to 80 °C	
	**SD / SDV**	Single stage, end suction pumps (solids handling) for vertical and horizontal installations	HI design (OH3)	Q =up to 14,000 m³/h H = up to 45 m	P = up to 4.4 bar T = up to 40 °C	
	**NE**	Submersible Non-clog centrifugal wastewater pump with oil-filled motor	HI design Industrial norms	C =up to 522 m³/h H = up to 53 m	P = up to 4.8 bar T = up to 70 °C	
	**SHS**	Submersible Non-clog centrifugal wastewater pump with dry-running motor	HI design Industrial norms	C =up to 1,600 m³/h H = up to 73 m	P = up to 10.3 bar T = up to 120 °C	
	**VTP**	Multi-stage, vertical turbine pumps with diffuser type bowl	HI design Industrial & API 610 (VS1) norms	Q = up to 13,636 m³/h H = up to 762	P = 74 bar T = 0 to 121 °C	RUHR^{VERT} VERTICAL
	**VSP / VSP CHEM**	Single stage vertical sump pump design for wet pit applications	ANSI B73.1, ISO 5199 EN ISO 2858 and API 610 (VS4) norms	Q = up to 1,200 m³/h H = up to 130 m	P = up to 40 bar T = up to 200 °C	

PUMPING TECHNOLOGY FOR LIFE...

MEET OUR **PUMPS**

	RP MODEL	DESCRIPTION	DESIGN STANDARDS	OPERATING LIMITS		
	**VSS**	Vertical multi-stage centrifugal in-line pump with balanced mechanical seal	Industrial norms	Q = 1,120 m³/h H = 300 m	P= up to 30 bar T = up to 120ºC	RUHR^{AP} HIGH PRESSURE
	**GP** **GPA**	Horizontal, multi-stage, ring-section type process and boiler feed water pump	ISO 5199, Industrial norms and API 610 (BB4)	Q = up to 900 m³/h H = up to 4,000 m	P = up to 416 bar T = up to 205 ºC	
	**MPP**	Single stage, end suction, Hard-metal mining & slurry pump	Heavy duty design norms (OH1)	Q = up to 4,500 m³/h H = up to 70 m	P = up to 20 bar T = up to 120 ºC	RUHR^{QUARTZ} MINING
	**ZW - F**	Horizontal, single stage, split case fire pumps	NFPA 20 FM / UL approvals	Q = 150 to 5,000 US gpm (1,135 m³/h) P = up to 355 psi (25 bar)		RUHR^{FIRE} FIRE PROTECTION
	**IRP - F**	Horizontal, single stage, end suction fire pumps	NFPA 20 FM / UL approvals	Q = up to 1,500 US gpm (340 m³/h) P = up to 185 psi (13 bar)		
	**Pre-Packaged Fire Pump Systems**	Fire systems incorporate pumps, drivers, control systems and pipework in a single container. They can be skid mounted, with or without enclosure and supplied with electric motor or diesel engine.	NFPA 20-850 FM / UL approvals	Q = up to 5,000 US gpm (1,135 m³/h) P = up to 355 psi (25 bar)		
	PSKI & PDKI	Component Single & Dual mechanical seals	DIN 24960, EN 12756, ATEX II2G & II3G	T min = - 50 ºC T max = 400 ºC	P = up to 80 bar	RUHR^{PI} - MECHANICAL SEALS
	CSCI & CDCI	Cartridge Single & Dual mechanical seals	EN 12756, ATEX II2G & II3G	T min = -40 ºC T max = -220 º C	P = up to 25 bar	
	CSCI & CDCI	Cartridge Single & Dual mechanical converter seals	EN12756, DIN24960, ISO 3069, ATEX II2G & II3G	T min = -40 ºC T max = -220 º C	P = up to 20 bar	
	CSCA & CDCA	Cartridge Single & Dual Mechanical seals	API 682, ISO 21049, EN 12756, ATEX II2G & II3G	T min = -40 ºC T max = -220 º C	P = up to 25 bar	
	**SSCM, SSCL & SSCU**	Split semi-cartridge mechanical seals	FDA, DIN28136 T2 & T3, DIN 28137 T2, DIN28141/ U154, DIN 28154, DIN 28159, ATEX II2G & II3G	T min = -20 ºC T max = 500 ºC	P= FV P = up to 25 bar	
	PSGI, PDGI, CSGI, CDGI, CSGL, CDGL, CSGU, CDGU, CSGM & CDGM	Dry Gas cartridge single & dual mechanical seals	FDA | DIN28136 T2 & T3, DIN 28137 T2, DIN28141/ U154, DIN 28154, DIN 28159, ATEX II2G & II3G	T min = -20 ºC T max = 170 ºC	P= FV P = up to 25 bar	
	Support Systems	Thermosyphon circulation and cooling systems	API 682 / ISO 21049: PLAN 52 & PLAN 53A, PED 2014/68/EU, ASME VIII, Div. 1	T min = - 60 ºC T max = 200 º C	P = 40 bar	
	Engineered Seals	Cartridge & component Single & Dual API & Chemical mechanical seals	API 682, FDA, DIN	T min = - 50 ºC T max = 500 º C	P= FV P = up to 150 bar	
	**SCE**	Horizontal, centerline mounted, single stage API process pump	API 610 (OH2)	Q = up to 3,200 m³/h H = up to 480 m	P = up to 90 bar T = -80 to 450 ºC	RUHR^{API} OIL & GAS
	SCE-M	Horizontal, centerline mounted, single stage API provess pump with magnetic drive	API 685 (OH2)	Q = up to 2,200 m³/h H = up to 330 m	P = up to 40 bar T =-120 to 450 ºC	

ZW — Horizontal Split Case

Flexible Coupled

Material
Cast Iron
Stainless Steel Fitted

Fluid Temp: Up to 248° F
Flow: Up to 11000 GPM
Head : Up to 900 FT
Suction: Up to 16 in
Discharge: Up to 12 in
Power: Up to 600 HP

Application Market

HVAC Applications Heating & Cooling Water Pumps

GS — Single Stage, Horizontal Centrifugal Pump

GU Frame Mounted

Material
Cast Iron, Impeller (Stainless Steel)

Fluid Temp: Up to 225° F
Flow: Up to 4196 GPM
Head : Up to 427 FT
Suction: Up to 10 in
Discharge: Up to 8 in
Power: Up to 200 HP

Application Market

HVAC Applications
Heating & Cooling Water Pumps
Plumbing Applications

CPP — Single Stage, Horizontal Centrifugal Pump

Foot Mounted
Flexibly Coupled

Material
Ductile Iron - Duplex Impeller
Stainless Steel

Fluid Temp: Up to 600° F
Flow: Up to 1560 GPM
Head : Up to 760 FT
Suction: Up to 6 in
Discharge: Up to 4 in
Power: Up to 200 HP

Application Market

HVAC Applications Heating & Cooling Water Pumps

ME — Single Stage, Horizontal Centrifugal Pump

Close Coupled

Material
Cast Iron
Impeller Stainless Steel

Fluid Temp: Up to 225° F
Flow: Up to 600 GPM
Head : Up to 158 FT
Suction: Up to 4 in
Discharge: Up to 4 in
Power: Up to 15 HP

Application Market

HVAC Applications
Heating & Cooling Water Pumps
Plumbing Applications

NE — Submersible Pump

Close Coupled

Material
Cast Iron

Fluid Temp: Up to 104° F
Flow: Up to 2275 GPM
Head: Up to 240 FT
Suction: NA
Discharge: Up to 6 in
Power: Up to 75 HP
Solids Handling: Up to ⌀ 4 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

NG — Submersible Pump

Close Coupled

Material
Cast Iron

Fluid Temp: Up to 104° F
Flow: Up to 106 GPM
Head : Up to 160 FT
Suction: NA
Discharge: Up to 2 in
Power: Up to 7.5 HP

Application Market

Plumbing Applications Heating & Cooling Water Pumps

NSE — Submersible Pump

Close Coupled

Material
Stainless Steel / Plastic

Fluid Temp: Up to 104° F
Flow: Up to 30 GPM
Head : Up to 150 FT
Suction: NA
Discharge: Up to 1 in
Power: Up to 1.3 HP
Solids Handling: Up to ⌀ 0.02 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

NNE — Submersible Pump

Close Coupled

Material
Plastic

Fluid Temp: Up to 104° F
Flow: Up to 45 GPM
Head : Up to 27 FT
Suction: NA
Discharge: Up to 1.25 in
Power: Up to 1 HP
Solids Handling: Up to ⌀ 0.2 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

ZW HSC HSD HSL FIRE — HorizontalSplit Case Fire Pump

Flexible Coupled

Material
Cast Iron /
Ductrile Iron / Carbon Steel

Fluid Temp: NA
Flow: Up to 150-5000 GPM
Head : Up to 92-819 FT
Suction: Up to 20 in
Discharge: Up to 14 in
Power: Up to 1000 HP

Application Market

UL/FM Fire Pump
Applications

CPP FIRE — ANSI End Suction Fire Pumps

Foot Mounted
Flexible Coupled

Material
Cast Iron /
Ductrile Iron / Carbon Steel

Fluid Temp: NA
Flow: Up to 150-400 GPM
Head : Up to 92-577 FT
Suction: Up to 4 in
Discharge: Up to 3 in
Power: Up to 100 HP

Application Market

UL/FM Fire Pump
Applications

GS — Single Stage, Horizontal Centrifugal Pump

GE Close Coupled

Material
Cast Iron, Impeller
(Stainless Steel)

Fluid Temp: Up to 225° F
Flow: Up to 4196 GPM
Head : Up to 517 FT
Suction: Up to 10 in
Discharge: Up to 8 in
Power: Up to 200 HP

Application Market

HVAC Applications Heating & Cooling Water Pumps

IVP — Vertical In - Line Pump

Split Coupled

Material
Cast Iron
Stainless Steel

Fluid Temp: Up to 300° F
Flow: Up to 10000 GPM
Head : Up to 200 FT
Suction: Up to 12 in
Discharge: Up to 12 in
Power: Up to 250 HP

Application Market

HVAC Applications Heating & Cooling Water Pumps

IVP-CC — Vertical In - Line Pump

Close Coupled

Material
Cast Iron
Stainless Steel

Fluid Temp: Up to 300° F
Flow: Up to 1600 GPM
Head : Up to 200 FT
Suction: Up to 8 in
Discharge: Up to 8 in
Power: Up to 75 HP

Application Market

Plumbing Applications Heating & Cooling Water Pumps

VSE-VSSE — Multistage Vertical Pump

Flexible Coupled

Material
Cast Iron
Stainless Steel

Fluid Temp: Up to 248° F
Flow: Up to 776 GPM
Head : Up to 572 FT
Suction: Up to 4 in
Discharge: Up to 4 in
Power: Up to 60 HP

Application Market

Plumbing Applications Heating & Cooling Water Pumps

NTE — Submersible Pump

Close Coupled

Material
Cast Iron

Fluid Temp: Up to 104° F
Flow: Up to 65 GPM
Head : Up to 59 FT
Suction: NA
Discharge: Up to 3 in
Power: Up to 1 HP
Solids Handling: Up to ⌀ 0.25 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

AU — Self-Priming Pumps

Frame Mounted

Material
Cast Iron

Fluid Temp: Up to 225° F
Flow: Up to 3500 GPM
Head : Up to 185 FT
Suction: Up to 10 in
Discharge: Up to 10 in
Power: Up to 75 HP
Solids Handling: Up to ⌀ 2.5 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

AE — Self-Priming Pumps

Close Coupled

Material
Cast Iron

Fluid Temp: Up to 225° F
Flow: Up to 1200 GPM
Head : Up to 198 FT
Suction: Up to 6 in
Discharge: Up to 6 in
Power: Up to 25 HP
Solids Handling: Up to ⌀ 1.25 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

SWP — Self-Priming Process Pump

Flexible Coupled
Foot-Mounted

Material
Cast Iron /
Duplex as Optional

Fluid Temp: Up to 158° F
Flow: Up to 5280 GPM
Head : Up to 147 FT
Suction: Up to 12 in
Discharge: Up to 12 in
Power: Up to 200 HP
Solids Handling: Up to ⌀ 3 in

Application Market

Plumbing Applications Heating & Cooling Water Pumps

VTP FIRE — Vertical Turbine Fire Pumps

Vertical Turbine Pumps

Material
Cast iron / Ductrile iron /
Carbon steel / Bronze fitted

Fluid Temp: NA
Flow: Up to 250-5000 GPM
Head : Up to 92-1197 FT
Suction: NA
Discharge: Up to 16 in
Power: Up to 700 HP

Application Market

UL/FM Fire Pump
Applications

IVP FIRE — Vertical In-Line Fire Pumps

Close Coupled

Material
Cast iron / Ductrile iron /
Carbon steel / Bronze fitted

Fluid Temp: NA
Flow: Up to 150-1500 GPM
Head : Up to 100-360 FT
Suction: Up to 8 in
Discharge: Up to 8 in
Power: Up to 125 HP

Application Market

UL/FM Fire Pump
Applications

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REASONS WHY YOU SHOULD CHOOSE

GE *NEMA Premium Extra Severe Duty Motors*

► Safety

- Casted lifting lugs tested individually at over 4 times the weight of the motor vs single eye bolt.
- Non sparking corrosion resistance fan.
- Thermostat controlled space heaters available for classified locations.
- Grounding lug inside conduit box and on frame.
- Fan covers on 324-449 have axial mounting bolts for more rugged installation.

XSD Ultra

► Superior Insulation System

- Class H (180 °C) insulation throughout the whole motor.
- Trickle-treat varnish process for optimum slot fill and winding coverage.
- GEGARD 2400 for voltage spike protection.
- Every motor CIV tested and exceeds NEMA MG1-31, providing high reliability for fixed speed and inverter duty applications.
- Non hydroscopic, Anti fungus polyester resin.

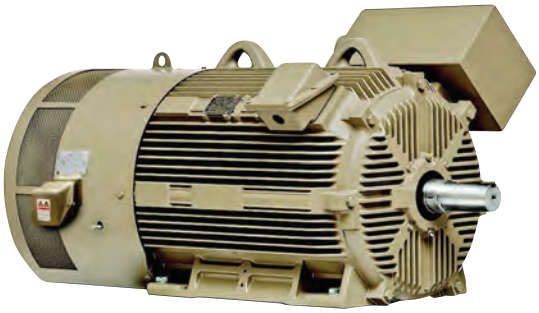
Vertical Solid and Hollow Shaft

► Proven Bearing System

- Single shielded oversized bearings on every motor.
- Sealed bearing system that is 100% regreasable, IP55 and above protection.
- 130,000 hr L10 bearing life on 4 pole motors.
- Fully charged lubrication system before assembly.
- Suitable for 40 °C to +120 °C temperatures.
- Gasketed Cast Iron bearing caps to retain lubricant and protect the bearing system and interior of the motor from contaminants.

► Reliability and Flexibility

- Average 30% below class B temperature rise for cooler running motors.
- ISO 1940 Grade 1.0 Precision Plus balance, maximum allowable over-all vibration is .04 IPS PK for long bearing life.
- Field modifiable F2 mounting for more flexibility on applications.
- Oversized conduit box for making lead connections.
- GE C5 Stator Lamination, Inorganic, high resistance coating by special chemical/ thermal processing, Increased core burnout temperature 400 °C = 752 °F.
- Cast-in vibration pads for repeatability and smooth surface.
- Foot flatness tolerance of 0.0005 inches provides easy alignment to connected equipment.
- Internal test for X$D Ultra motor continued to operate after being subjected to 1,000,000 plug reversals.
- Comprehensive 5 year warranty (60 / 66 months).
- Epoxyester paint system 1000 hours ASTM B-117 Salt Spray.



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