



PUMP PRODUCTS GUIDE

TORISHIMA is a leading pump manufacturer, founded in 1919 in Osaka, Japan. Our primary objective is to contribute to society as a quality provider of pumping equipment and services. We continue to strive to be the market leader in our field. Our on-going investment in research and development highlights our commitment to provide the best technology for our customers. Our mission is always to listen to our customers, understand their needs and their expectations.



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Main Pumps List

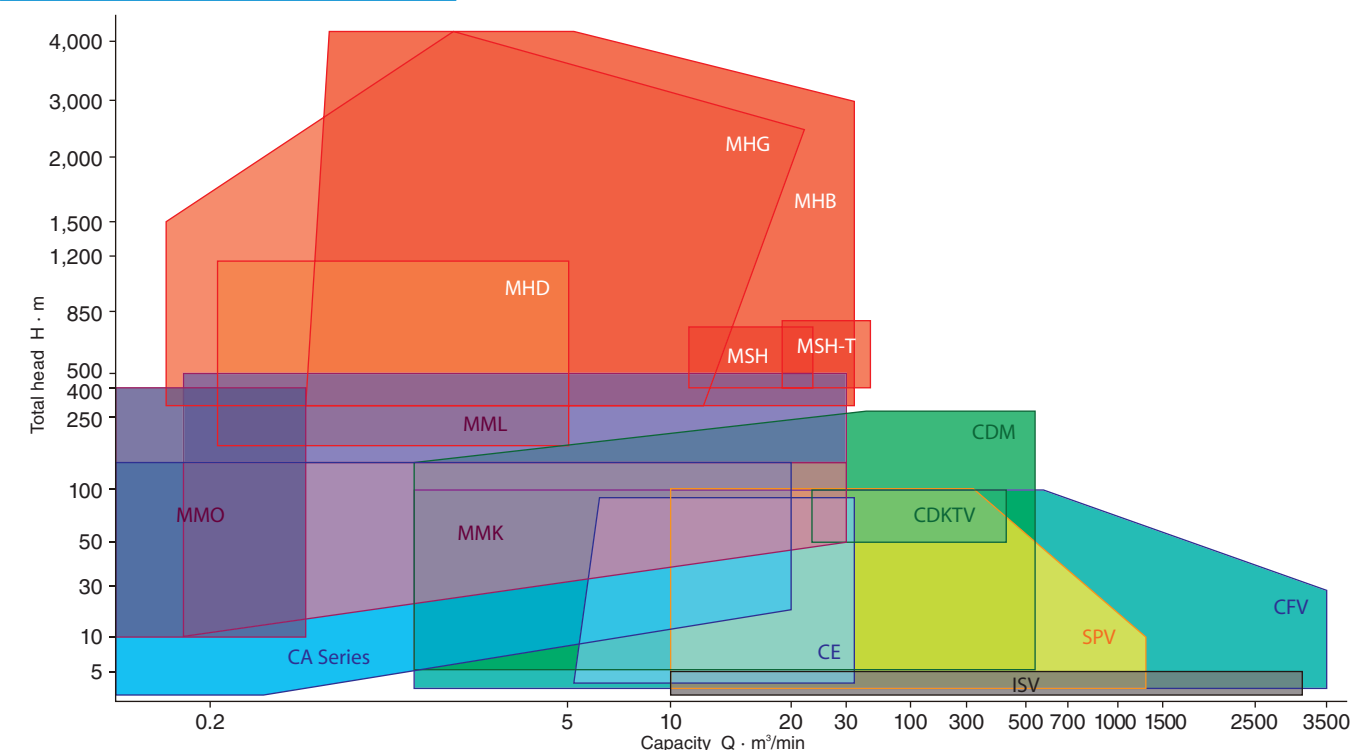
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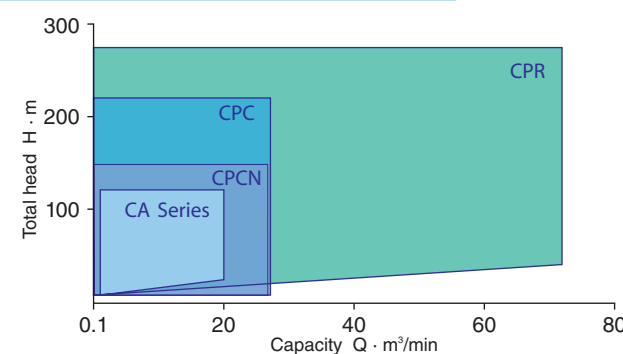
TORISHIMA MAIN PUMPS SELECTION TABLE

General specification ranges for 50Hz and 60Hz types are shown below.

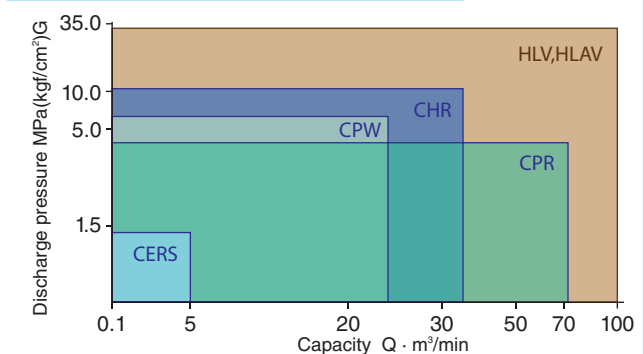
Pumps for Fresh Water



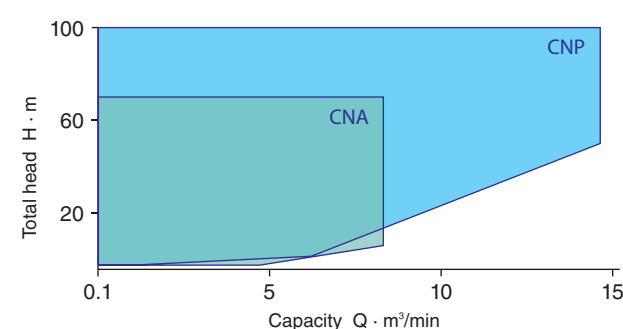
Chemical Process Pumps



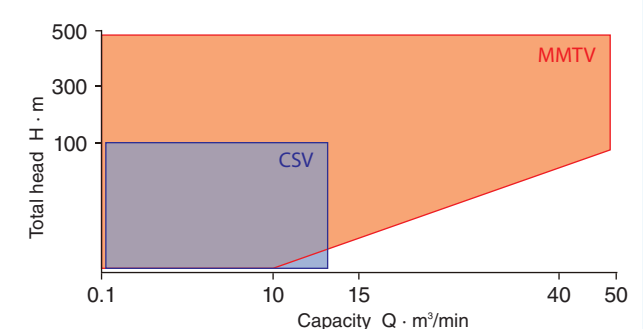
Hot Water Circulating Pumps



Non-Clogging Pumps



Vertical Pumps for Chemical Industries



Energy Industry

- 1 Condensate pump for combined cycle power plant (MMTV)
- 2 Vaporizing pumps for LNG plant (SPV)
- 3 Barrel type super critical boiler feed pump for coal fired power plant (MHB)
- 4 Super critical pressure boiler circulating pump for thermal power plant (HLV)
- 5 Ring section boiler feed pump for combined cycle power plant (MHG)
- 6 Circulating water pump for coal fired thermal power plant (SPV)

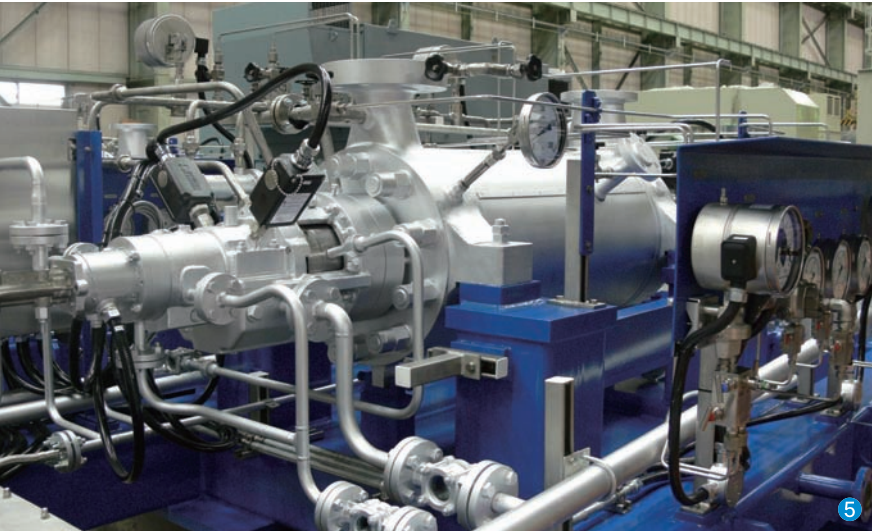
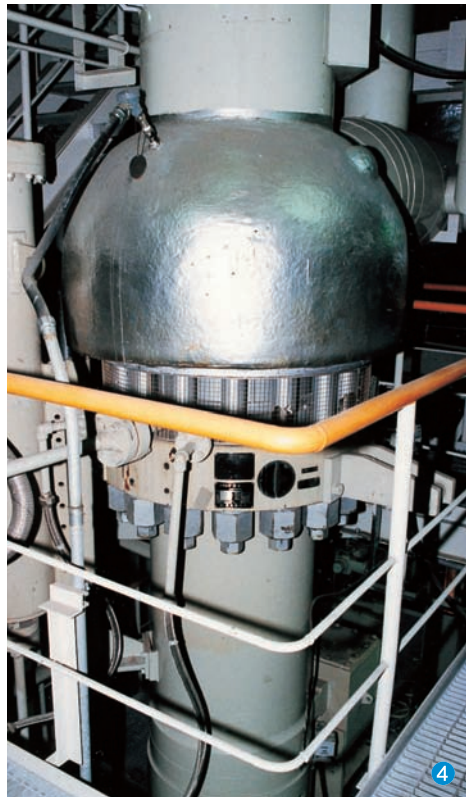


Chart for Selecting Pumps by Application

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical

Applications Products		Power Generation						Gas		Oil Storage (Underground Tank Ground Tank)					mm	m³/h	m	MPa	°C	Page
		Coal	LNG	Oil	Hydropower	Geothermal	Utility	LNG, LPG	Cooling by Seawater	Oil Product Outlet	Stripping	Underground Water Drainage	Crude oil	Fire-Fighting	Utility					
																Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature
End-Suction Pumps	CAL															32 to 200	600	100	1	80
	CAM															32 to 250	1200	150	1	80
	CE															200 to 300	2100	90	1	140
	CHR															50 to 300	1940	125	10.8	325
	CNP															50 to 200	850	100	1	250
	CPC															32 to 250	1560	220	2.45	350
	CPCN															32 to 250	1560	150	2.45	200
	CPR															25 to 400	4320	270	4	400
	CPW															40 to 250	1440	200	6.3	280
	CSV															32 to 200	810	100	2.5	350
Double-Suction Pumps	CDM, CDMV															200 to 1400	33000	300	1.4	80
	CDKS															200 to 500	3000	300		350
	CDKY															125 to 400	3480	160	3.2	210
	CDKTV															500 to 1500	20000	100		100
Multi-Stage Pumps	MHB															80 to 200	2000	4200	42	200
	MHG															40 to 250	1400	4200	42	200
	MHD															80 to 200	300	1200	14	180
	MMK															40 to 350	1800	150	5.4	230
	MML															40 to 350	1800	500	5.4	230
	MMTV															40 to 400	2900	490	3.9	200
Specialized Mixed-Flow Pumps	HLV, HLA V															40 to 400	6000	180	32	420
	SPV															300 to 2800	80000	100		80
Submersible Pumps	SMRV															150 to 1000	9000	70		
	T/B															50 to 800	4800	40		40
	F/TB															25 to 200	400	200		

Municipal Water Works
Industrial Water Works
Small Capacity Water Works
Desalination Plant

- 1 Water supply pumps for potable water distribution pumping station (CDM)
- 2 Long-distance potable water transmission pumps (CDM)
- 3 Brine recirculation pumps for MSF desalination plant (CDKTV)
- 4 Various seawater pumps for MSF desalination plant (CDM, SPV, SPSY)
- 5 High pressure seawater feed pump for RO desalination plant (MSH-T)
- 6 High pressure seawater feed pump for RO desalination plant (MSH)

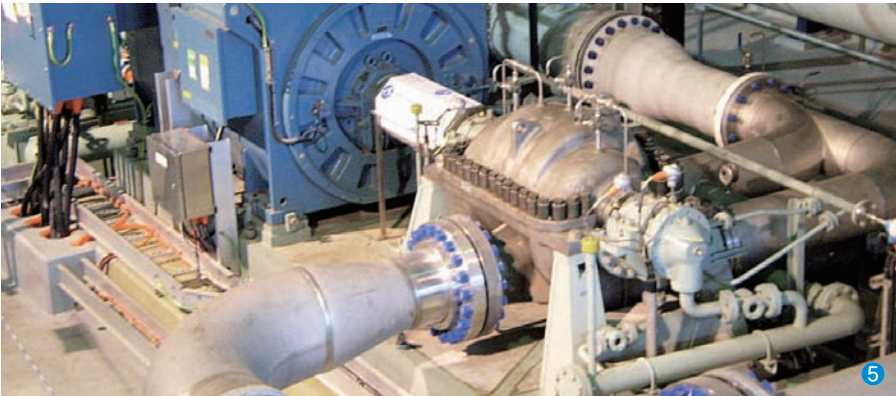


Chart for Selecting Pumps by Application

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical

Applications Products		Municipal Waterworks			Industrial Waterworks			Small Scale Waterworks			Seawater Desalination (MSF)			Seawater Desalination (RO)				mm	m³/h	m	MPa	°C	Page
		Intake	Supply	Distribution	Brine Recirculation	Brine Blow Down	Seawater Feed	Product Water	High Pressure Feed	Filtered Water	Back Wash	Product Water											
End-Suction Pumps	CAL	●	●	●						●	●	●				32 to 300	600	100	1	80	15		
	CAR									●		●				32 to 200	600	100	1	80	15		
	CAM	●	●	●						●	●	●				32 to 250	1200	150	1.6	80	15		
	CAS									●		●				32 to 250	1200	150	1.6	80	15		
	CFV	●	●	●												150 to 5000	210000	100			16		
	CPC					●	●	●	●	●		●				32 to 250	1560	220	2.45	350	17		
Double-Suction Pumps	CDM, CDMV	⊕	⊕	⊕	⊕	⊕		⊕			⊕	⊕				200 to 1400	33000	300	1.4	80	19		
	CDKS								●							200 to 500	3000	300		350	19		
	CDKTV				●											500 to 1500	20000	100		100	19		
Multi-Stage Pumps	MSH	●	●	●					●							100 to 300	1500	750			21		
	MSH-T	●	●	●					●							200 to 350	3000	800			21		
	MHH	●	●	●					●							150 to 300	800	800			21		
	MHA								●							125 to 200	800	800			21		
	MMK		●	●												40 to 350	1800	150	5.4	230	21		
	MML		●	●					●							40 to 350	1800	500	5.4	230	21		
	MMO, MMOV		⊕	⊕												32 to 65	130	400	4	140	22		
Mixed-Flow Pumps	SPV	●			●	●	●	●		●						300 to 2800	80000	100		80	23		
	SPSY	●	●				●									350 to 1200	20000	50			23		
Submersible Pumps	SMIV	●														400 to 700	4500	6			25		
	SMSV	●														400 to 700	4200	14			25		
	SMV	●														150 to 1000	9000	70			25		
	F/TB	●														25 to 250	400	200			26		
	F/VC, F/VD F/UW, F/SP	●														40 to 300	660	90			26		

Sewerage
Agriculture
Irrigation
River Water

- 1 Storm water drainage pumps for sewage treatment plant (SPV)
- 2 Drainage pumps for agriculture (SP)
- 3 Irrigation pumps (CDM)
- 4 Sludge transfer pumps for sludge disposal plant (CNP)
- 5 Waste water transfer pumps for sewage treatment plant (CFV-sm)
- 6 Sewage pumps for sewage treatment plant (CFV)



Chart for Selecting Pumps by Application




Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical

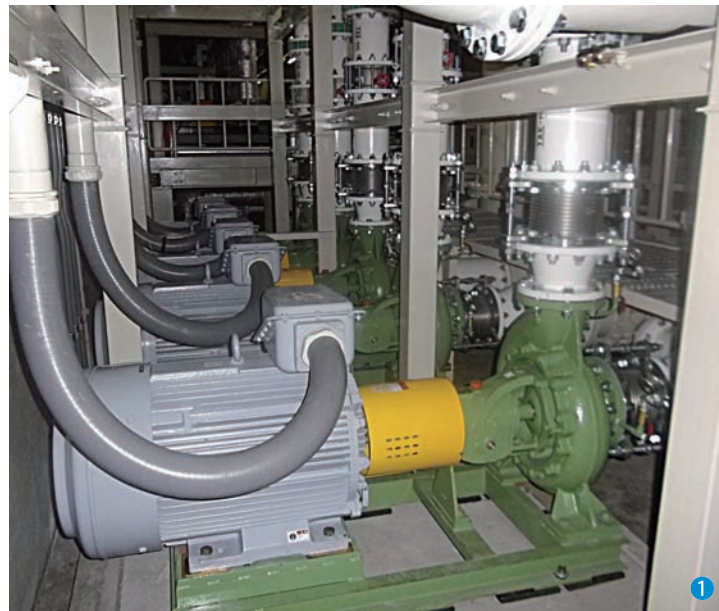
Applications Products		Sewerage					Agriculture		River Water			mm	m³/h	m	MPa	°C	Page
		Sewage Transfer Plant	Sewage Disposal Plant	Sludge Disposal Plant	Storm Water Drainage	Small Capacity Sewerage	Agricultural Water	Drainage	Irrigation, Sprinkler	Flood Control, Water Supply	Water Utilization	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	
End-Suction Pumps	CAL						●		●			32 to 300	600	100	1	80	15
	CAM						●		●			32 to 250	1200	150	1.6	80	15
	CE						●		●			200 to 300	2100	90	1	140	15
	CFV	●		●	●		●	●		●	●	150 to 5000	210000	100			16
	CFV-SM	●			●							200 to 600	3000	50			16
	CNA		●	●		●						50 to 200	500	70	1	140	17
	CNP		●	●								50 to 250	850	100	1	250	17
Double-Suction Pumps	CNS, CNSV	●	●	●								80 to 250	660	70		105	17
	CDM, CDMV	●			●		●	●	●			200 to 1400	33000	300	1.4	80	19
Multi-Stage Pumps	MSH						●		●			100 to 300	1500	750			21
	MSH-T						●		●			200 to 350	3000	800			21
	MMK						●		●			40 to 350	1800	150	5.4	230	21
	MML						●		●			40 to 350	1800	500	5.4	230	21
	MMO, MMOV						●	●	●			32 to 65	130	400	4	140	22
Mixed-Flow Pumps	SP	●			●		●	●		●	●	400 to 2000	36000	9			23
	SPV	●	●		●		●	●		●		300 to 2800	80000	100		80	23
	SPSY						●	●				350 to 1200	20000	50			23
	SPSX						●	●				250 to 350	1380	17			24
Axial-Flow Pumps	IS				●		●	●		●	●	400 to 2000	36000	5			24
	ISV		●		●		●	●		●	●	400 to 4600	186000	5			24
Submersible Pumps	SMI, SMS						●	●				400 to 5000	210000	8			25
	SMIV				●		●	●		●	●	400 to 700	4500	6			25
	SMSV				●		●	●		●	●	400 to 700	4200	14			25
	T/B, T/C, T/N	●	●		●	●						50 to 800	4800	40		40	26
	F/TB						●		●			25 to 200	400	200			26
	F/V, F/V, F/UW, F/SP						●		●		●	40 to 300	660	90			26
	SNK	●			●							400 to 3500	18000	10			28

Regional Development Urban Development

- 1 Pumps for air conditioning system for building facility (CAL)
- 2 Cooling water pumps for district heating and cooling system (CDM)
- 3 Boiler feed pumps for district heating and cooling system (MML)
- 4 Cooling water pumps for district heating and cooling system (CDM)
- 5 Cooling water pumps for air conditioning facility (CE)
- 6 Boiler feed pumps for district heating and cooling system (MMO)

Chart for Selecting Pumps by Application

Main Application	 Horizontal	 Vertical	 Horizontal/Vertical
Secondary Application	 Horizontal	 Vertical	 Horizontal/Vertical

[illegible]

Chemical Industry

- 1 Process pumps for chemical plant (CPC)
- 2 Process pumps for DMT plant (CPC)
- 3 Cooling water pumps for petrochemical plant (CDM)
- 4 Boiler feed pump for petrochemical plant (MHD)
- 5 Lifting pump for chemical plant (CDKS)
- 6 Cooling water pumps for oil refinery plant (CPC)

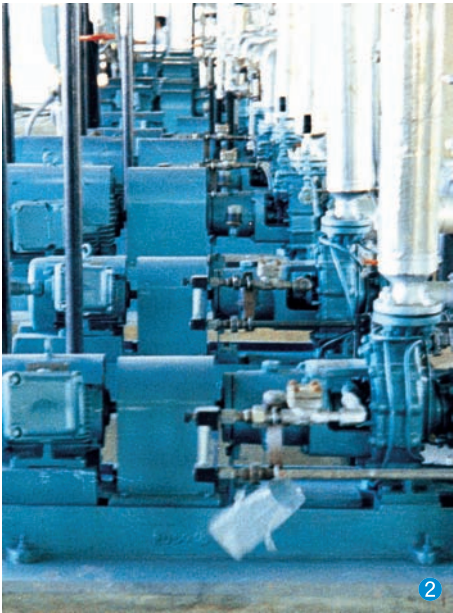
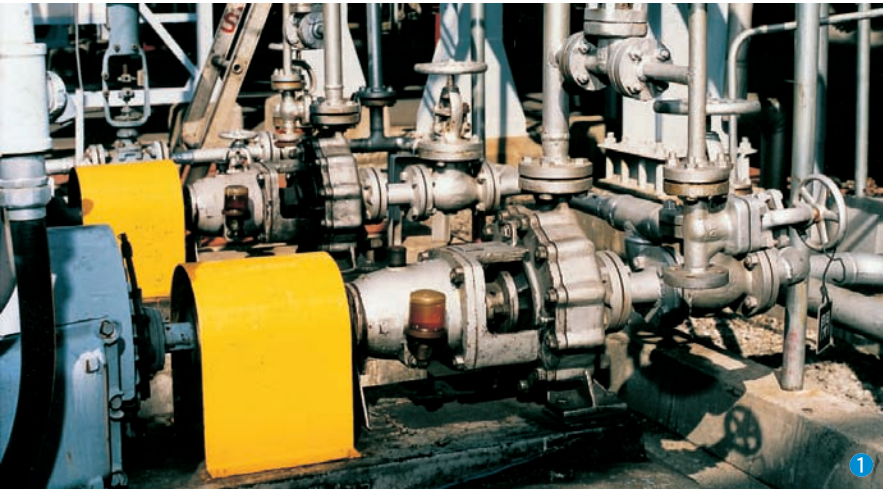


Chart for Selecting Pumps by Application

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical

Applications Products		Petro-Chemical		Inorganic Chemical		Chemical Fertilizer		Fine-Chemical		Bio-Chemical		Oil and Coal Products			mm	m³/h	m	MPa	°C	
		Process	Utility	Process	Utility	Process	Utility	Process	Utility	Process	Utility	Refinery	Coal Conversion		Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page
End-Suction Pumps	CAL		●		●		●		●		●				32 to 200	600	100	1	80	15
	CAR		●	●		●		●	●	●	●				32 to 200	600	100	1	80	15
	CAM		●		●		●		●		●				32 to 250	1200	150	1.6	80	15
	CAS		●	●		●		●	●	●	●				32 to 250	1200	150	1.6	80	15
	CE		●		●		●		●		●				200 to 300	2100	90	1	140	15
	CERS			●											32 to 100	300	98	1.4	340	16
	CNP	●		●		●						●			50 to 250	850	100	1	250	17
	CPC	●		●		●		●		●		●	●		32 to 250	1560	220	2.45	350	17
	CPCN	●		●		●		●		●		●	●		32 to 250	1560	150	2.45	200	18
	CPR	●										●	●		25 to 400	4320	270	4	400	18
	CPW			●											40 to 250	1440	200	6.3	280	18
	CSV	●		●		●		●		●			●		32 to 200	810	100	2.5	350	18
Double-Suction Pumps	CDM	●		●	●	●	●					●			200 to 1400	33000	300	1.4	80	19
	CDKS	●	●	●	●	●	●					●			200 to 500	3000	300		350	19
Multi-Stage Pumps	MHB	●		●			●					●			80 to 200	2000	4200	42	200	20
	MHG	●		●			●					●			40 to 250	1400	4200	42	200	20
	MHD	●		●			●					●			80 to 200	300	1200	14	180	20
	MMK		●		●		●		●		●	●			40 to 350	1800	150	5.4	230	21
	MML		●		●		●		●		●	●			40 to 350	1800	500	5.4	230	21
	MMTV	●		●		●						●	●		40 to 400	2900	490	3.9	200	22
Mixed-Flow Pumps	SPV		●		●		●							300 to 2800	80000	100		80	23	
Submersible Pumps	T/B, T/C, T/N		●				●							50 to 800	4800	40		40	26	
Miscellaneous Pumps	N/WR				●		●	●		●				15 to 80	72	300		90	27	

General Industry

- 1 Water supply pumps for machinery plant (CAL)
- 2 Treated water pumps for beverage plant (CAR)
- 3 Process pumps for beer brewery plant (CAR)
- 4 Furnace cooling water pump for steel plant (CDM)
- 5 Cooling water pump in paper mill (CDM)
- 6 Plating cooling water pumps for steel plant (CAL)

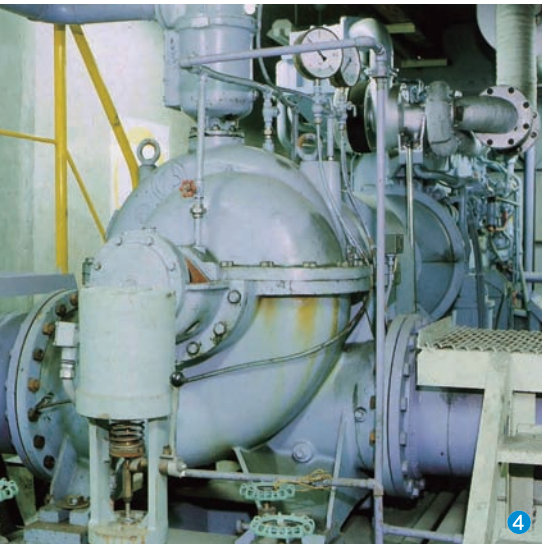
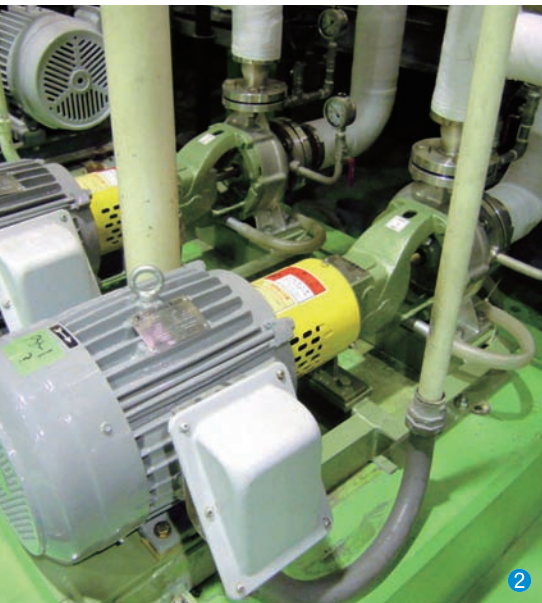


Chart for Selecting Pumps by Application

Main Application	Horizontal	Vertical	Horizontal/Vertical
Secondary Application	Horizontal	Vertical	Horizontal/Vertical

Applications Products		Iron and Steel			Nonferrous Metal		New Materials		Motor Car Machinery Ceramics		Paper & Pulp		Food		Shipbuilding			mm	m³/h	m	MPa	°C	
		Water Intake, Water Supply	Cooling Water	Descaling	Waste Water Treatment	Utility	Water Supply	Drainage	Process	Utility	Process	Utility	Dock Drainage	Sizes	Max. Capacities	Max. Total Heads	Max. Operating Pressure	Max. Operating Temperature	Page				
End-Suction Pumps	CAL, CAR	●	●		●	●	●		●	●	●	●						32 to 200	600	100	1	80	15
	CAM, CAS	●	●		●	●	●		●	●	●	●						32 to 250	1200	150	1.6	80	15
	CE	●	●			●	●		●	●	●	●						200 to 300	2100	90	1	140	15
	CEBS						●			●		●						32 to 65	42	6.5	1	100	16
	CERS									●		●						32 to 100	300	98	1.4	340	16
	CNA								●		●							50 to 200	500	70	1	140	17
	CNP				●				●		●							50 to 200	850	100	1	250	17
	CNS, CNSV								⊕		⊕							80 to 250	660	70		105	17
	CPC					●	●			●	●	●						32 to 250	1560	220	2.45	350	17
	CPCN					●	●			●	●	●						32 to 250	1560	150	2.45	200	18
	CPW									●		●						40 to 250	1440	200	6.3	280	18
Double-Suction Pumps	CDM	●	●				●		●	●		●	●					200 to 1400	33000	300	1.4	80	19
Multi-Stage Pumps	MHG			●		●												40 to 250	1400	4200	42	200	20
	MHD			●		●												80 to 200	300	1200	14	180	20
	MMK	●					●			●		●						40 to 350	1800	150	5.4	230	21
	MML	●					●			●		●						40 to 350	500	1800	5.4	230	21
	MMO, MMOV	⊕					⊕			⊕		⊕						32 to 65	130	400	4	140	22
Specialized	HLV/HLAV					●											40 to 400	6000	180	32	420	22	
Mixed-Flow Pumps	SPV	●	●			●							●				300 to 2800	80000	100		80	23	
Submersible Pumps	S/M				●			●		●		●						40 to 350	1000	230			26
	T/B, T/C, T/N				●			●		●		●						50 to 800	4800	40		40	26
	F/TB	●								●		●						25 to 200	400	200			26
	F/VC, F/VD F/UW, F/SP						●			●								40 to 300	660	90			26
Miscellaneous Pumps	N/WR						●					●						15 to 80	72	300		90	27
	TE/O				●			●		●		●						25 to 200	300	40		40	28
	O/PS								●		●							50 to 250	780	70			28

End-Suction Pumps



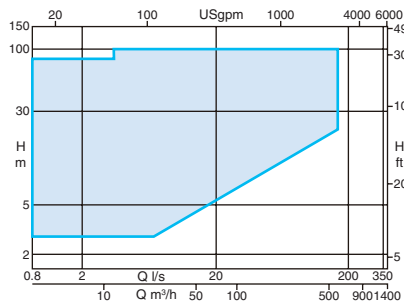
CAL (Cast Iron), CAR (Stainless Steel)

10bar end-suction volute pump

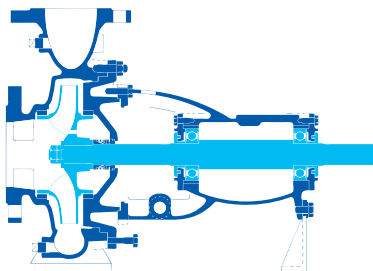
Taking advantage of our existing pump designs, CAL and CAR are totally optimized design pumps which adopt the efficient impeller design. The components focus on interchangeability.

Applications

Feed / Drainage water for general industries, Feed / Drainage water / Various processes for chemical / food industries, Cold / Hot water circulation in district heating / cooling plants, Water pumping, Fire-fighting, Water intake / Distribution / Supply for water works, Industrial water, and others



Capacity	up to 600 m³/h / 2,640 USgpm
Total Head	up to 100 m / 320 ft
Temperature	-10 to 80°C / -50 to 170°F
Pressure	up to 1 MPa / 10 bar / 145 psi
Size	32 to 200 mm



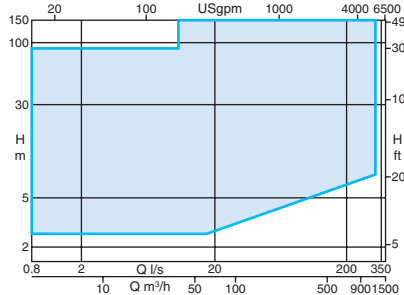
CAM (Cast Iron), CAS (Stainless Steel)

16bar end-suction volute pump

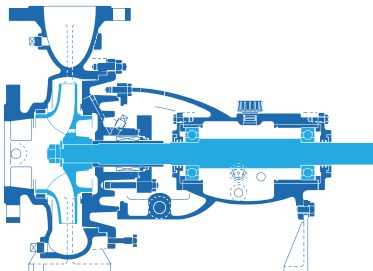
In common with CAL and CAR as CA series, CAM and CAS are totally optimized design pumps which adopt the efficient impeller design.

Applications

Feed / Drainage water for general industries, Feed / Drainage water / Various processes for chemical / food industries, Cold / Hot water circulation in district heating / cooling plants, Water pumping, Fire-fighting, Water intake / Distribution / Supply for water works, Industrial water, and others



Capacity	up to 1,200 m³/h / 5,280 USgpm
Total Head	up to 150 m / 490 ft
Temperature	-40 to 80°C / -100 to 170°F
Pressure	up to 1.6 MPa / 16 bar / 230 psi
Size	32 to 250 mm



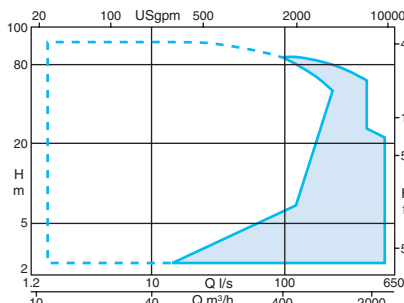
CE

End-suction volute pump

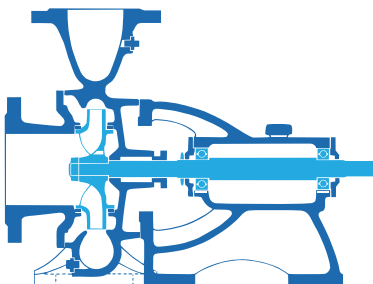
A single- or two-stage end-suction volute pump. Various materials and structural designs employed to meet specification requirements for a variety of applications from fresh water, chemicals and heat transfer.

Applications

Water intake / Distribution / Supply / Boosting / Clarification for water works, Various processes for chemical industries, Water pumping / Drainage for agriculture, Boiler feed pump, Heat medium circulation, Heater drain, and others



Capacity	up to 2,100 m³/h / 9,240 USgpm
Total Head	up to 90 m / 295 ft
Temperature	up to 140°C / 280°F (340°C / 640°F for heat medium)
Pressure	up to 1 MPa / 10 bar / 145 psi
Size	200 to 300mm



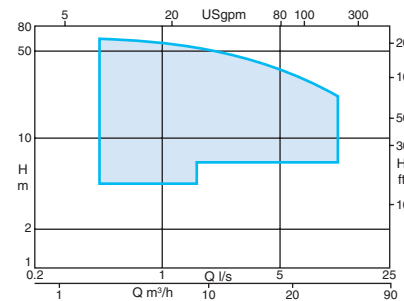
CEBS

Pressing stainless end-suction volute pump

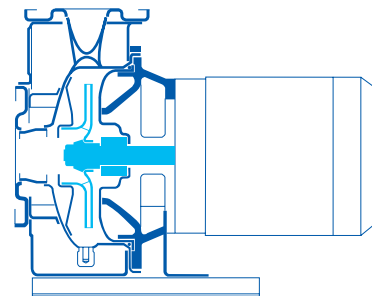
A motor block pump made by pressing stainless steel. The liquid contact areas are all made of stainless steel so as to be highly resistant to corrosion. The pump motor unit design allows to be compact and light-weight and easy to handle.

Applications

Hot water supply / Hot water circulation in building facilities, Various processes in food industries, Water and hot water supply for general industries, To prevent breakage from freezing for pump facilities in cold areas, and others



Capacity	up to 42 m³/h / 165 USgpm
Total Head	up to 65 m / 210 ft
Temperature	up to 100°C / 210°F
Pressure	up to 1 MPa / 10 bar / 145 psi
Size	32 to 65 mm



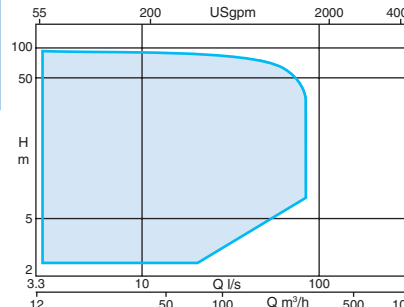
CERS

End-suction volute pump for heat transfer oil

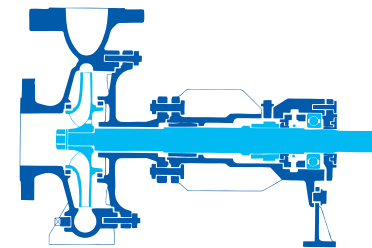
Specialized for heat transfer oil. Effective air-cooled design leads to no requirement for cooling at shaft sealing or bearing to 340°C heat transfer oil.

Applications

Dry / Agitator / Heating systems for chemical industries, Oven / Dry / Heating systems for food industries, Dry / Heating systems for general industries, and others



Capacity	up to 300 m³/h / 1,320 USgpm
Total Head	up to 98 m / 320 ft
Temperature	up to 340°C / 640°F
Size	32 to 100 mm



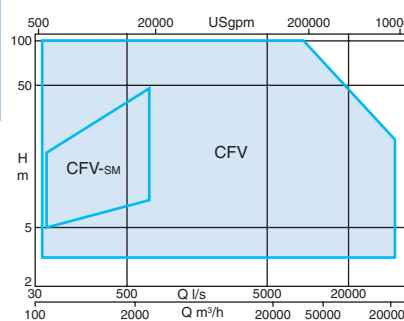
CFV, CFV-SM

Vertical mixed-flow volute pump
Vertical mixed-flow volute pump with motor

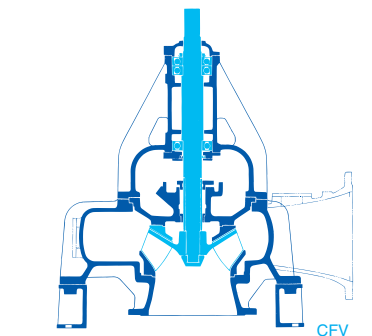
Applicable for wide range from low head to high head. CFV-SM are a design of water resistant motor and pump. The design enables it to operate when a pump room is flooded. In addition, CFV-SM doesn't require intermediate shaft and thus reduces construction cost.

Applications

Sewage transfer, Rain water drainage, Water intake / Distribution / Boosting for water works, Water pumping / Drainage for agriculture, and others



	CFV	CFV-SM
Capacity	120 to 210,000 m³/h / 520 to 924,000 USgpm	180 to 3,000 m³/h / 790 to 13,200 USgpm
Total Head	3 to 100 m / 10 to 320 ft	up to 50 m / 160 ft
Size	150 to 5,000 mm	200 to 600 mm



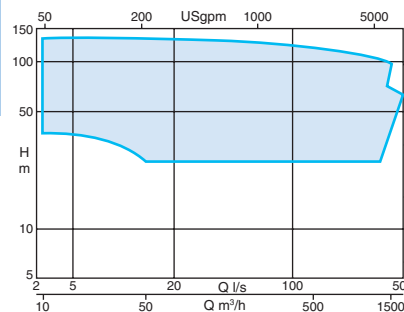
CHR

End-suction volute pump for hot water circulation

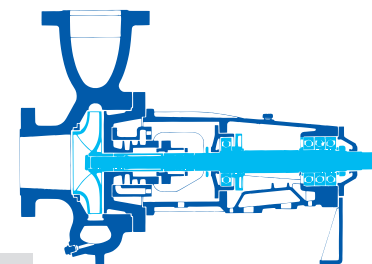
Applicable mainly for hot water circulation of forced-circulation boilers. The forced cooling system is applied to the bearing bracket, stuffing box and base plate.

Applications

Hot water circulation in forced-circulation boilers in thermal power plants, Petrochemical industries, Coal gasification plants, Oil refinery, and others



Capacity	up to 1,940 m³/h / 8,530 USgpm
Total Head	up to 125 m / 410 ft
Temperature	up to 325°C / 615°F
Pressure	up to 10.8 MPa / 108 bar / 1,560 psi
Size	50 to 300 mm



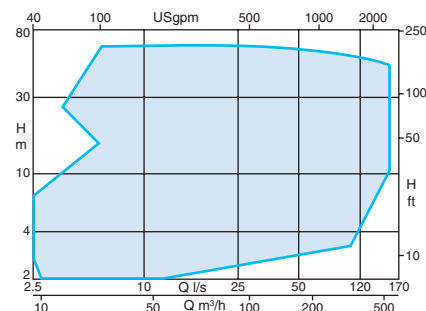
CNA

Non-clogging end-suction volute pump

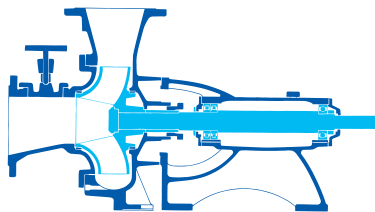
The discharge opening of the non-clogging impeller is produced especially wide to permit free passing of any solids measuring 50 to 70% of the pump nozzle size.

■Applications

Sewage transfer,
Transfer / Drainage of liquids containing sludge for general industries,
Transfer of grain and water mixtures,
Transfer of cellulosic pulp of less than 2.5% B.D. free from air, and others



Capacity	9~500 m³/h / 39 to 2,200 USgpm
Total Head	up to 70 m / 230 ft
Temperature	up to 140°C / 280°F
Size	50 to 200mm



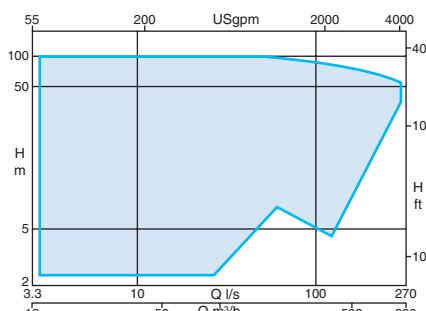
CNP

Non-clogging End-suction volute pump

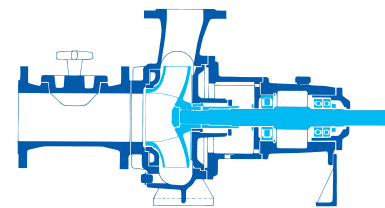
Five kinds of standardized impellers available according to liquid. Applicable in various industries. The back pull-out structure and high interchangeability of this pump providing ease of maintenance.

■Applications

Transfer of corrosive liquids / abrasive liquids / chemical drainage including rough mixtures for chemical industries,
Transfer / Drainage of solid mixtures for food / general industries, and others



Capacity	up to 850 m³/h / 3,740 USGpm
Total Head	up to 100 m / 320 ft
Temperature	-30 to 250°C / -20 to 480°F
Size	50 to 200mm



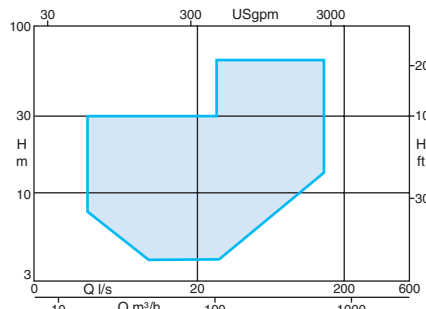
CNS, CNSV(Vertical)

End-suction volute pump with screw impeller

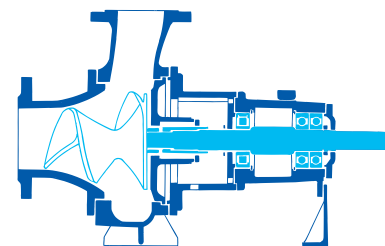
Specially designed to handle crude sewage containing heavily contaminated solid and long-fibre admixtures liable to twist or bunch. High efficiency and high energy saving.

■Applications

Sewage / Sludge transfer,
Pulp / Black liquid / White liquid transfer,
Transfer / Drainage of solid mixtures in food / general industries, and others



Capacity	up to 660 m³/h / 2,900 USGpm
Total Head	up to 70 m / 230 ft
Temperature	up to 105°C / 220°F
Size	80 to 250 mm



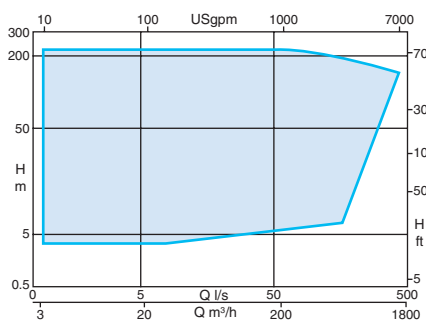
CPC

End-suction volute pump for process

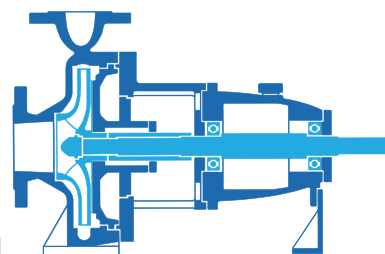
Conforms to ISO2858. A wide range of structural designs of material and seals meet various specification requirements as process pump for chemical and general industries.

■Applications

Cooling systems / Water feed for deaerator / Condensate / Drain in energy industries,
Processes in petrochemical / chemical industries,
Water feed / Drainage for general industries



Capacity	up to 1,560 m³/h / 6,860 USGpm
Total Head	up to 220 m / 720 ft
Temperature	up to 350°C / 660°F
Pressure	up to 2.45 MPa / 24.5 bar / 355 psi
Size	32 to 250 mm



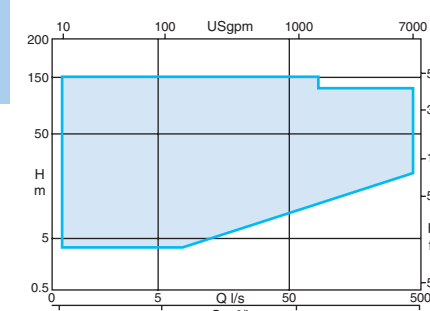
CPCN

End-suction volute pump for process

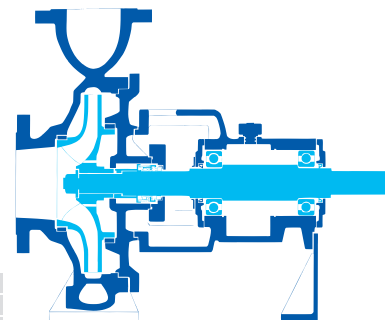
Conforms to ISO2858, compact, durable and reliable based on CPC type. The design corresponding to space saving installation and high suction pressure fits in building facilities, district cooling and heating, energy related industries.

■Applications

Cooling water circulation in building facilities, Cool / Hot water / Cooling water circulation for district cooling and heating, Water pumping, Fire-fighting, Cooling systems / Water feed for deaerator / Condensate / Drain in energy industries, Water feed / Drainage for general industries



Capacity	up to 1,560 m³/h / 6,860 USGpm
Total Head	up to 150 m / 490 ft
Temperature	-40 to 200°C / -100 to 390°F
Pressure	up to 2.45 MPa / 24.5 bar / 355 psi
Size	32up to 250 mm



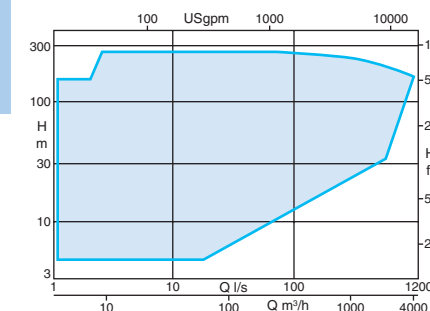
CPR

End-suction volute pump for process

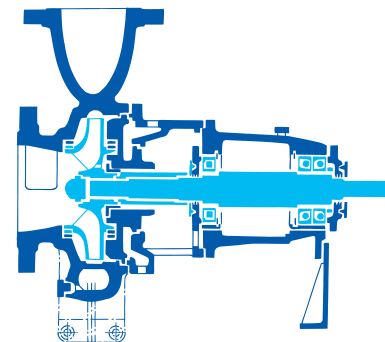
Simple and durable design providing high reliability. Widely used for oil refinery, petrochemical, and general industries. Series with inducer for low NPSH req. also available.

■Applications

Processes in oil refinery / petrochemical / general industries



Capacity	up to 4,320 m³/h / 19,000 USGpm
Total Head	up to 270 m / 885 ft
Temperature	-70 to 400°C / -150 to 750°F
Pressure	up to 4 MPa / 40 bar / 580 psi
Size	25 to 400 mm



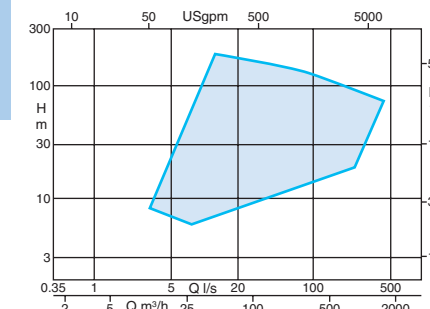
CPW

End-suction volute pump for hot water circulation

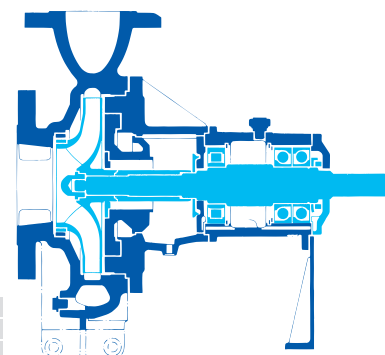
Centerline pump foot mounted. Mainly used as feed pump or circulation pump of hot water in large-size heating systems.

■Applications

Feed water / Circulation in high pressure hot water generating plants



Capacity	up to 1,440 m³/h / 6,300 USGpm
Total Head	up to 200 m / 670 ft
Temperature	up to 280°C / 530°F
Pressure	up to 6.3 MPa / 63 bar / 910 psi
Size	40 to 250 mm



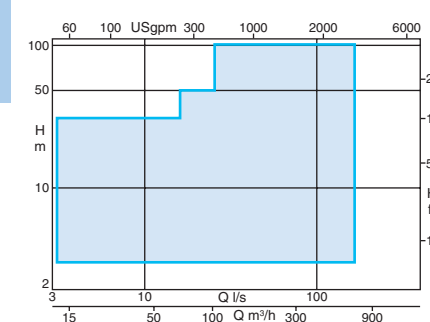
CSV

Vertical centrifugal volute pump

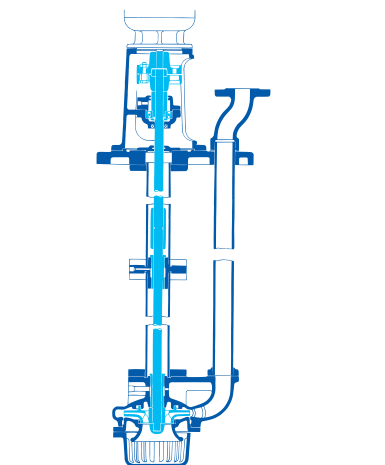
Standardized vertical pump, making full use of the features of various horizontal volute pumps covering a wide range of specifications.

■Applications

Pumping / Drainage of pit water in construction facilities / chemical / steel / power generating / pulp / food industries, and others

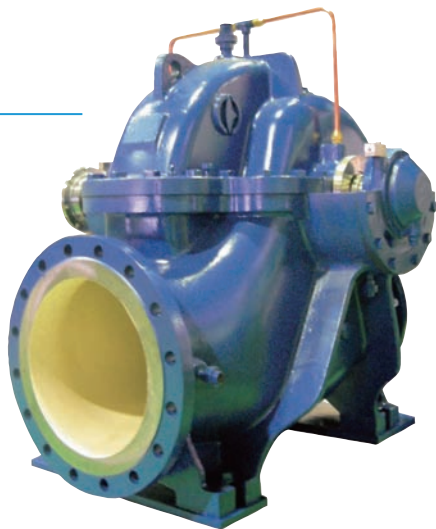


Capacity	up to 810 m³/h / 3,560 USGpm
Total Head	up to 100 m / 320 ft
Temperature	-100 to 350°C / -210 to 660°F
Size	32 to 200 mm



Double-Suction Pumps

Double-Suction

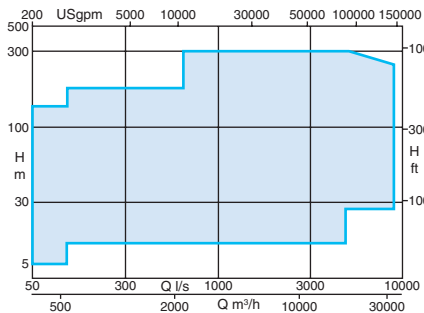


CDM, CDMV(Vertical)

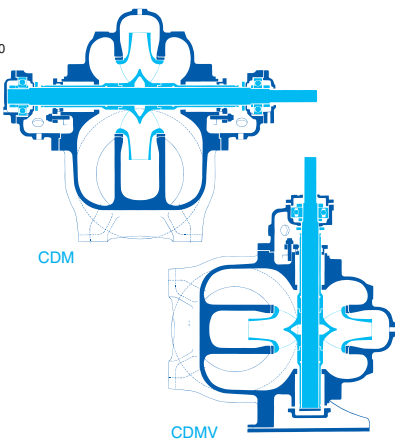
Axially split double-suction pump

The world's most advanced high efficiency pump achieved by design to match the double suction and three-dimensional impeller with the latest hydraulics. Simple disassembly of upper half casing without disturbing pipe work enables ease of maintenance and inspection.

- Applications
- Water intake / Distribution / Boosting / Circulation / Drainage / Fire-fighting in energy industries, Cooling water circulation for district heating and cooling, Water intake / Distribution / Boosting for general industries, Water intake / Distribution / Water supply / Boosting in seawater desalination / water works / sewage, Irrigation for agriculture, Drainage, Pipe-line boosting, and others



Capacity	180 to 33,000 m³/h / 790 to 145,200 USgpm
Total Head	3 to 300 m / 10 to 980 ft
Temperature	up to 80°C / 175°F
Size	200 to 1,400 mm

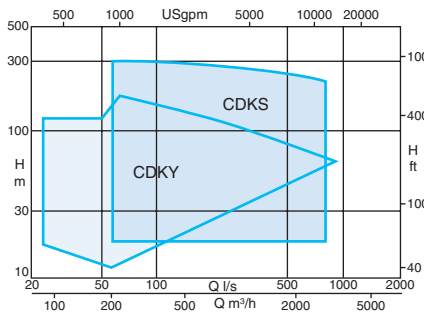


CDKY, CDKS

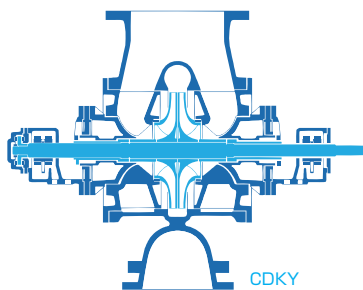
Horizontal radially split double-suction pump

The rotating parts can be taken out by removing the side cover in axial direction. Suitable for handling high temperature and pressure liquids in chemical plants and power plants. CDKY mainly used as booster pump for boiler feed pump and hot water circulation pump.

- Applications
- Processes in power / chemical / pulp industries, and others



	CDKY	CDKS
Capacity	up to 3,480 m³/h / 15,300 USgpm	up to 3,000 m³/h / 13,200 USgpm
Total Head	up to 160 m / 520 ft	up to 300 m / 960 ft
Temperature	up to 210°C / 410°F	up to 350°C / 660°F
Size	125 to 400 mm	200 to 500 mm

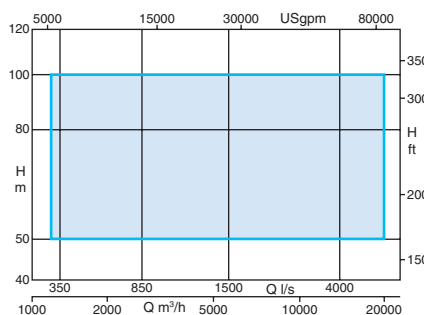


CDKTV

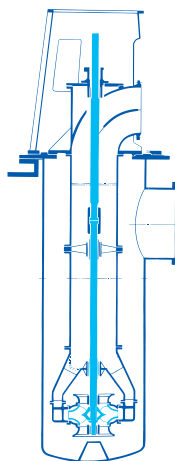
Vertical double-suction pump with canister

The hydraulic design of the double-suction impeller offering low shut off head, low NPSH and high speed. Mainly applicable for brine recirculation in seawater desalination plants and condensate in geothermal power plants when severe suction condition with large capacity and high head required.

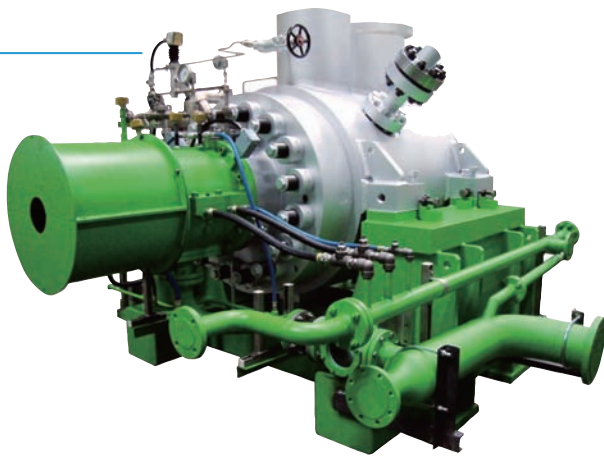
- Applications
- Brine recirculation / Brine blow down in seawater desalination plants, Hot well / Large volume condensate in geothermal power plants



Capacity	up to 20,000 m³/h / 220,000 USgpm
Total Head	up to 100 m / 320 ft
Temperature	up to 100°C / 210°F
Size	500 to 1,500 mm



Multi-Stage Pumps



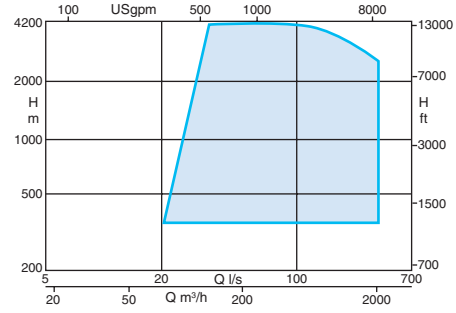
Multi-Stage

MHB

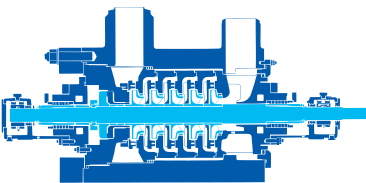
Radially split barrel casing pump

The barrel casing is fully welded to the pipe work and supported at its centerline on a fabricated steel base plate. The inner cartridge, which contains all pump components except the barrel and main stud bolts, is removable from the barrel as a complete unit for ease of maintenance.

- Applications
- Boiler feed in thermal power plants, High pressure feed water in various industries, and others



Capacity	up to 2,000 m³/h / 8,800 USgpm
Total Head	up to 4,200 m / 13,800 ft
Temperature	up to 230°C / 440°F
pressure	up to 42 MPa / 420 bar / 6,090 psi
Speed	up to 7,000 min⁻¹
Size	80 to 200 mm

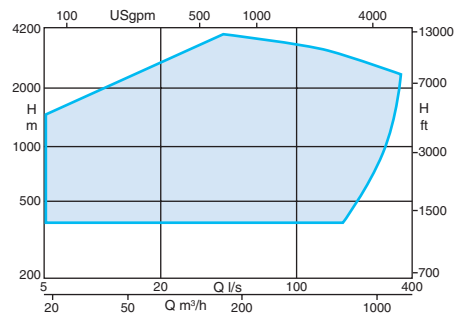


MHG

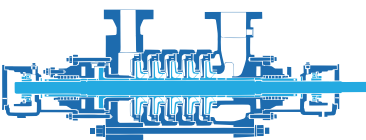
Horizontal multistage ring section pump

Radially split ring-section high-pressure multistage diffuser type pump. No warming through required enabling rapid start-up.

- Applications
- Boiler feed in power plants, High pressure feed water in various industries, and others



Capacity	up to 1,400 m³/h / 6,100 USgpm
Total Head	up to 4,200 m / 13,800 ft
Temperature	up to 200°C / 390°F
Pressure	up to 42 MPa / 420 bar / 6,090 psi
Speed	up to 7,000 min⁻¹
Size	40 to 250 mm

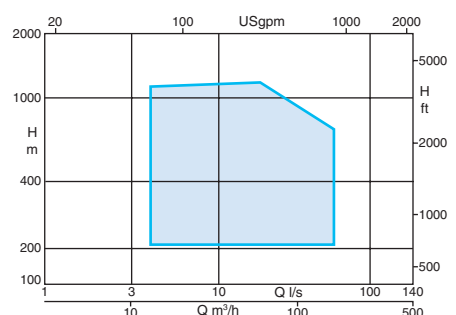


MHD

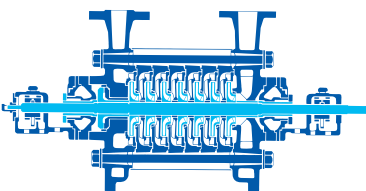
Horizontal multistage ring section pump

Radially split ring-section high-pressure multistage diffuser type pump achieving high efficiency and low NPSH. No warming through required enabling rapid start-up.

- Applications
- Boiler feed in power plants, High pressure feed water in RO desalination / various industries, and others



Capacity	up to 300 m³/h / 1,320 USgpm
Total Head	up to 1,200 m / 4,000 ft
Temperature	up to 180°C / 350°F
Pressure	up to 14 MPa / 140 bar / 2,030 psi
Speed	up to 7,000 min⁻¹
Size	80 to 200 mm

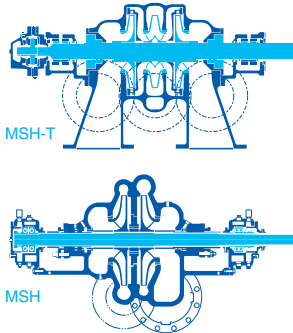
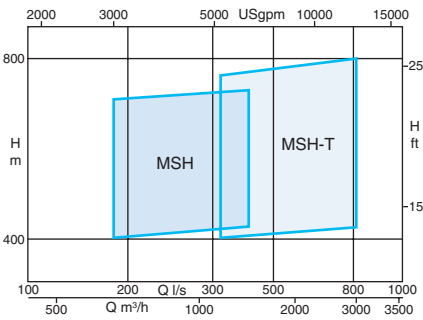


MSH, MSH-T (twin-suction)

Horizontal axially split multistage volute pump

The axially split design offers ease of maintenance of rotating equipment without removing the lower casing. MSH-T covering high head range is twin-suction structure to satisfy high suction capability.

- **Applications**
High pressure seawater feed in RO desalination plants, Distribution for water works, Water pumping for agriculture, and others



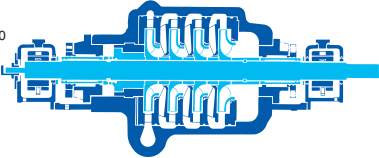
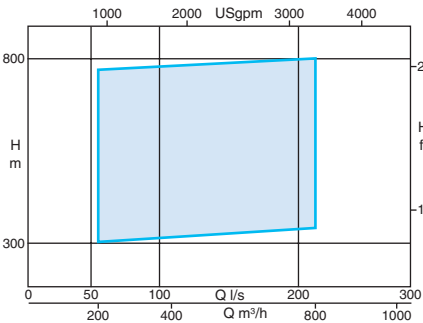
	MSH	MSH-T
Capacity	up to 1,500 m³/h / 6,600 USgpm	up to 3,000 m³/h / 13,200 USgpm
Total Head	up to 750 m / 2,460 ft	up to 800 m / 2,600 ft
Size	100 to 300 mm	200 to 350 mm

MHH

Axially split multistage pump

The axially split design offers ease of maintenance of rotating equipment without removing the lower casing. Applicable for high to low head duty by changing the number of stages.

- **Applications**
High pressure seawater feed in RO desalination plants, Distribution for water works, and others



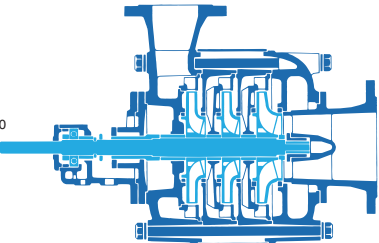
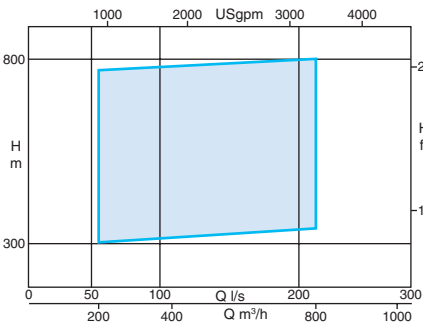
Capacity	up to 800 m³/h / 3,520 USgpm
Total Head	up to 800 m / 2,600 ft
Size	150 to 300 mm

MHA

Horizontal end-suction multistage ring section pump

The diffuser guides flow from impeller discharge to next impeller suction eye. The axial force is compensated by a hydraulic balancing device. The integrated design accumulated by high pressure and high speed pumps results in excellent cost performance and high efficiency.

- **Applications**
High pressure seawater feed in RO desalination plants



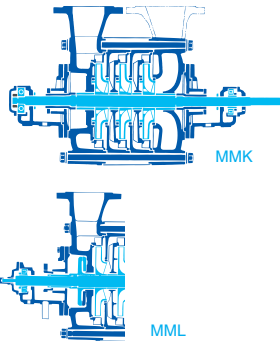
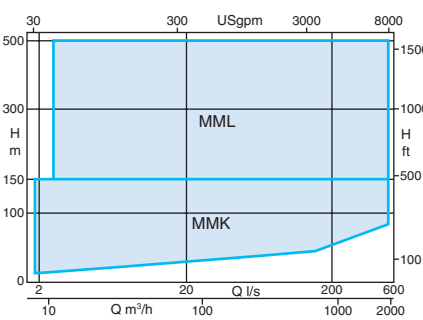
Capacity	up to 800 m³/h / 3,520 USgpm
Total Head	up to 800 m / 2,600 ft
Size	125 to 200 mm

MMK, MML

Horizontal multistage ring section pump

Axial thrust of MMK is balanced by the impeller balance holes, and by way of MML the balance disc, so that MMK and MML can operate with high reliability at high speed.

- **Applications**
Boiler feed in power plants, High pressure feed water in various industries, Condensate in seawater desalination, Distribution / Boosting for water works, Irrigation for agriculture, and others



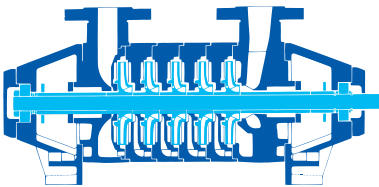
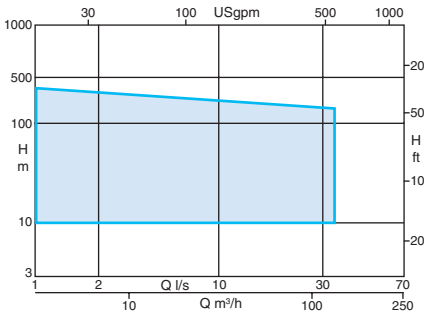
	MMK	MML
Capacity	up to 1,800 m³/h / 7,930 USgpm	up to 1,800 m³/h / 7,930 USgpm
Total Head	up to 150 m / 490 ft	up to 500 m / 1,640 ft
Temperature	up to 230°C / 440°F	up to 230°C / 440°F
Size	40 to 350 mm	40 to 350 mm

MMO, MMOV (Vertical)

Multistage ring section pump

Compact and light-weight. Pump feet integrally cast onto bearing housings, allowing free orientation of both suction and discharge nozzles. No cooling of shaft seals required up to 140°C liquid.

- **Applications**
Boiler feed / Condensate / Distribution for general industries, Water intake / Distribution / Water supply / Boosting for water works, Feed water / Drainage in building facilities, Cooling water / Hot and Cold water circulation, Water pumping / Drainage for agriculture, and others



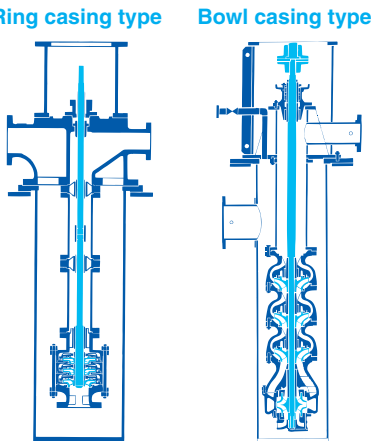
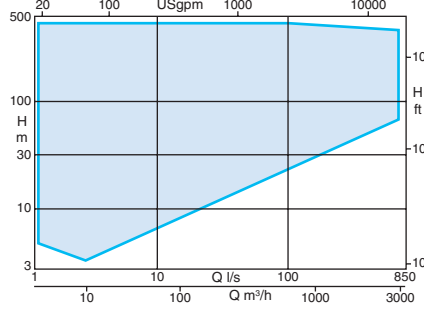
Capacity	up to 130 m³/h / 570 USgpm
Total Head	up to 400 m / 1,320 ft
Temperature	up to 140°C / 280°F
Size	32 to 65 mm

MMTV

Vertical multistage pump with canister

The high pressure vertical canister pump offers significant advantage in those cases where limited suction head is available. Applicable especially for condensers in power plants, desalination plants and other pipeline pumping applications.

- **Applications**
Hot water / Condensate / High and low pressure drain in thermal power plants



Capacity	up to 2,900 m³/h / 12,760 USgpm
Total Head	up to 490 m / 1,560 ft
Temperature	up to 200°C / 390°F
Pressure	up to 3.9 MPa / 39 bar / 565 psi
Size	40 to 400 mm

Specialized Pumps

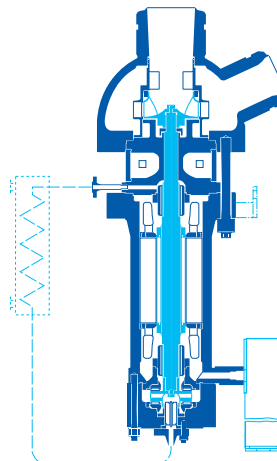
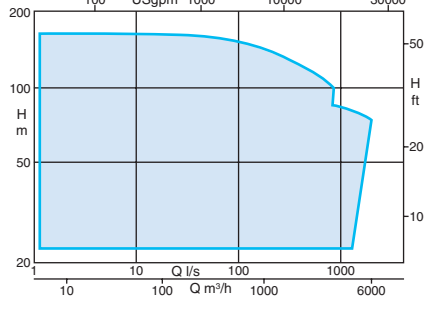


HLV, HLAV

Glandless(sealless) pump motor unit (Boiler circulation pump)

Pump and motor are integrated in a pressure-tight casing. The glandless design (no shaft seal) makes this pump best suited for pumping of high temperature and high pressure liquids without any leakage. Volute, annular or spherical casing designs optionally available.

- **Applications**
Boiler circulation in super / sub critical power plants



Capacity	up to 6,000 m³/h / 26,420 USgpm
Total Head	up to 180 m / 590 ft
Temperature	up to 420°C / 790°F
Pressure	up to 32 MPa / 320 bar / 4,640 psi
Motor Rating	up to 1,000 kW
Voltage	400V to 11 kV
Size	40 to 400 mm

Mixed-Flow Pumps

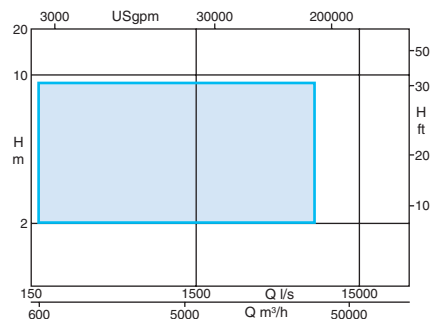


SP

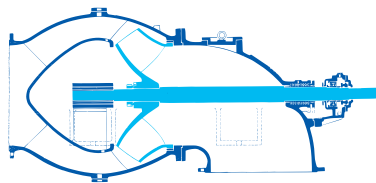
Horizontal mixed-flow pump

Offering the highest efficiency in low head and large capacity range. The axially split design offering ease of maintenance of rotating equipment without removing the lower casing.

- **Applications**
Water pumping / Drainage for agriculture,
Sewage transfer,
Rain water drainage,
Storm surge drainage, and others



Capacity	600 to 36,000 m³/h / 2,600 to 158,400 USgpm
Total Head	2 to 9 m / 6 to 29 ft
Temperature	up to 40°C / 100°F
Size	400 to 2,000 mm

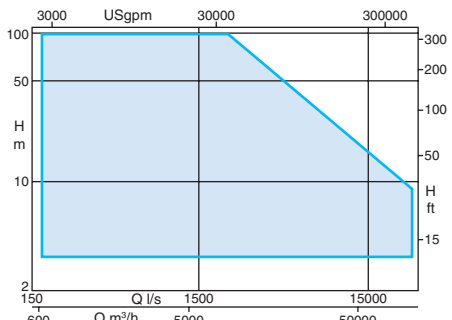


SPV

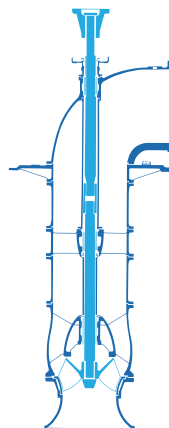
Vertical mixed-flow pump

Diffuser type, single or multistage design, mixed-flow impeller suspended within wet pit. Offering various hydraulic models, materials, and installation arrangement (above or below floor discharge) to suit the plant specific design.

- **Applications**
Rain water drainage / Water intake for water works / sewage, Circulation / Cooling water / Condensate in power plants, Seawater intake / Brine recirculation in seawater desalination plants, Water intake / Cooling water in petrochemical industries, Cooling water / Water intake / Dock drainage for general industries



Capacity	600 to 80,000 m³/h / 2,600 to 360,000 USgpm
Total Head	up to 100 m / 330 ft
Temperature	-10 to 80°C / -50 to 175°F
Size	300 to 2,800 mm

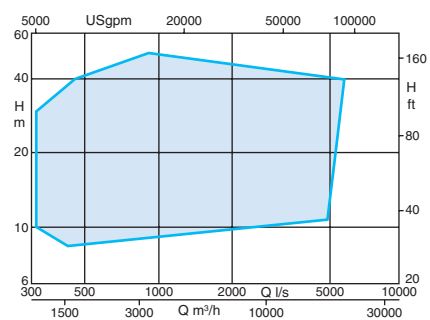


SPSY

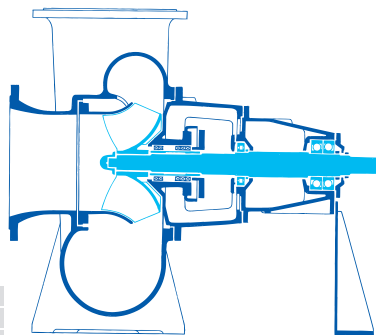
Mixed-flow volute pump

Suitable for fresh water and waste water pumping. Both open and closed type impeller available.

- **Applications**
Distribution / Drainage for water works / sewage, Water pumping for agriculture, Cooling water in power plants, Seawater recirculation in seawater desalination plants, and others



Capacity	up to 20,000 m³/h / 88,000 USgpm
Total Head	up to 50 m / 160 ft
Size	350 to 1,200 mm

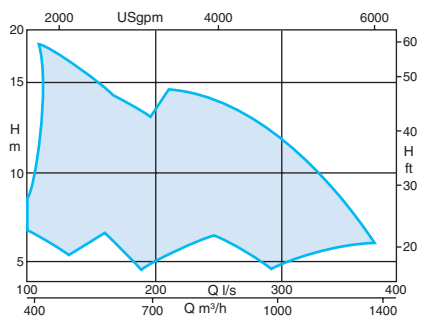


SPSX

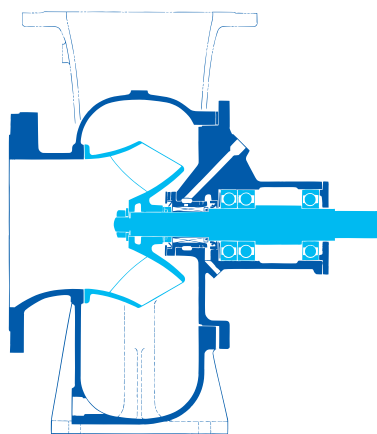
Mixed-flow volute pump

Mainly used for water pumping and drainage for agriculture. Simple back pull-out structure allowing ease of overhaul.

- **Applications**
Water pumping / Drainage for agriculture, Drainage for civil engineering work, Flood control, and others



Capacity	360 to 1,380 m³/h / 1,580 to 6,070 USgpm
Total Head	5 to 17 m / 16 to 54 ft
Size	250 to 350 mm



Axial-Flow Pumps

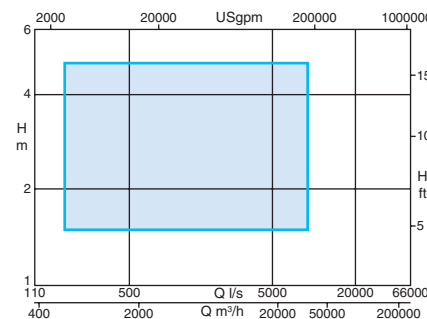


IS

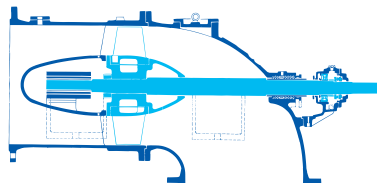
Axial-flow propeller pump

Diffuser type, axial flow propeller suspended within wet pit. Offering various hydraulic models suitable for large capacity with low pump head of water. Axially split design offering easy maintenance without removing the lower casing.

- **Applications**
Water pumping / Drainage for agriculture, Sewage transfer, Rain water drainage, Storm surge drainage, and others



Capacity	660 to 36,000 m³/h / 2,900 to 158,400 USgpm
Total Head	1.5 to 5 m / 5 to 16 ft
Size	400 to 2,000 mm

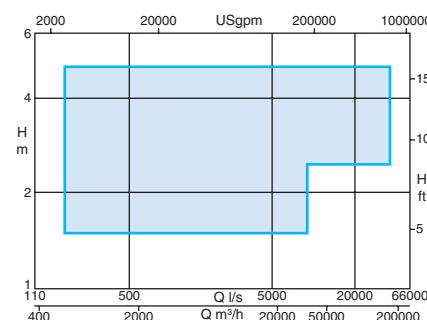


ISV

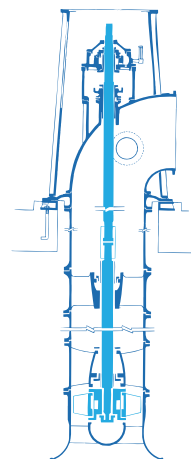
Vertical axial-flow propeller pump

Diffuser type, axial flow propeller suspended within wet pit. Especially used for large capacity with low head of water. The various hydraulic models applied to the change of the capacity and head.

- **Applications**
Water pumping / Drainage for agriculture, River water drainage, Cooling water in power plants



Capacity	600 to 186,000 m³/h / 2,640 to 818,400 USgpm
Total Head	1.5 to 5 m / 5 to 16 ft
Size	400 to 4,600 mm



Submersible Pumps



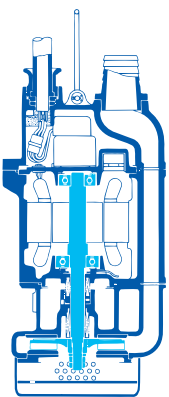
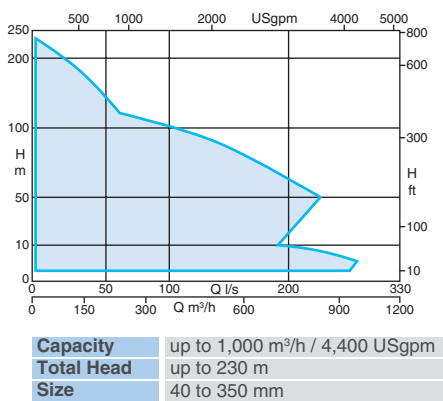
S/M

Dry-type submersible motor pump

Small light-weight and easy to handle. Best suited for discharging waste water at construction sites and draining water in buildings and factories. The motor is equipped with an auto-cut device, submersion detection device and protection device. The impeller is made of wear resistant materials.

■Applications

Waste water / Sludge drainage for civil engineering works, Drainage in factories, and others



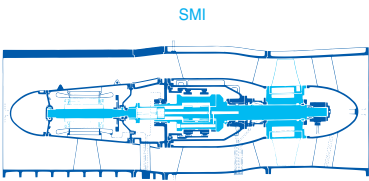
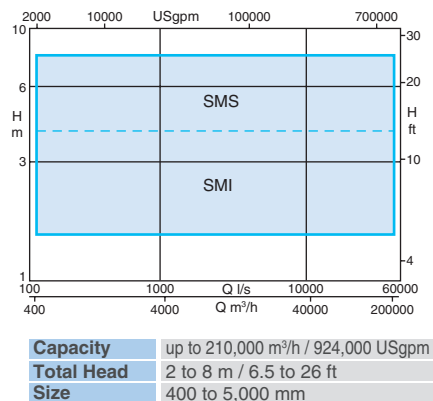
SMI (Axial-Flow), SMS (Mixed-Flow)

Tubular pump

Horizontal tubular pump-units combining an axial-flow or mixed-flow pump and a dry-type electric motor in a single tube. Little noise and compact owing to the small water flow loss and the combined motor. Either connected directly to an electric motor or used with a reduction gear for slower rotation.

■Applications

Water intake / Distribution / Drainage for water works, Water pumping / Drainage for agriculture, Industrial water / cooling water / drainage, Drainage for civil engineering work, and others



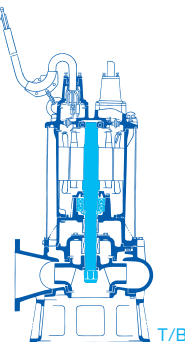
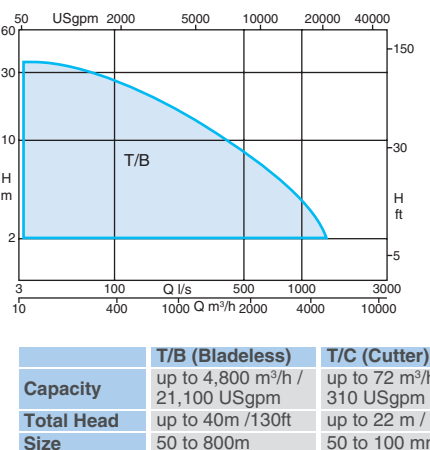
T/B, T/C, T/N

Submersible motor pump

Wide ranges of impellers suited for all types of sewage and effluent, especially untreated sewage containing fibers, solid admixtures, sewage sludge, circulating sludge. Removable device for ease of maintenance and inspection also available.

■Applications

Waste water / material drainage for sewage, Waste water / material drainage for construction facilities, Rain water drainage, and others



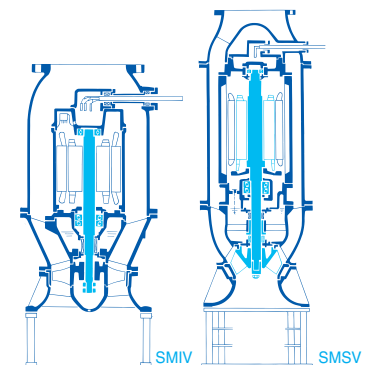
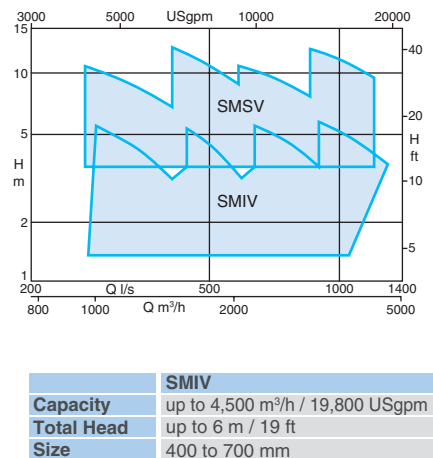
SMIV (Axial-flow), SMSV (Mixed-flow)

Dry-type submersible pump

Large capacity submersible propeller pumps with low head capabilities. Offering high efficiency and superior performance with compact design and easy operation. Designed to meet the requirements for efficient handling of large capacity of water. In particular, for installation, maintenance and inspection in pits, "Auto In-Pipe Column Installation type" adopted because of the high reliability and rapid discharge connections.

■Applications

Water pumping for agriculture, River drainage, Rain water drainage, Water intake / Drainage for sewage, and others



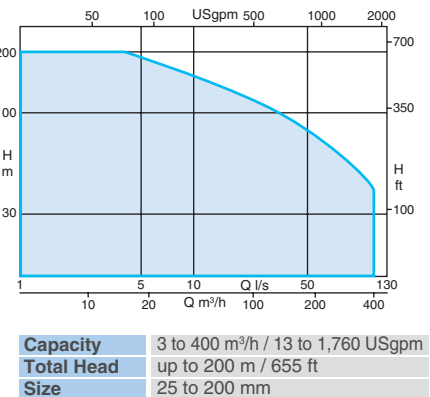
F/TB

Submersible motor pump for deep well

Vertical or horizontal submersible motor pumps with radial or mixed flow impellers, multi-stage. Water sealed three-phase induction motor is highly reliable electrically and mechanically as submersible motor, and enables less trouble and safe operation.

■Applications

Water intake / Distribution / Water supply for water works, Water feed / Distribution for general industries, Water pumping for agriculture



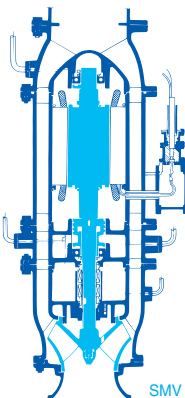
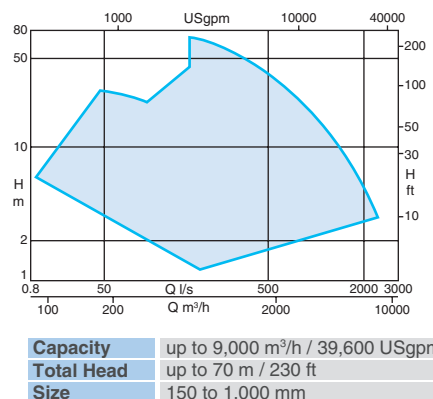
SMV, SMRV

Large-size submersible motor pump

SMV is vertical tubular casing pump with submersible motor. Water-filled or oil-filled type motor is provided. SMRV uses an oil-filled type submersible motor whose suction entry is located between motor and pump.

■Applications

Water intake / Distribution / Drainage for water works, Water pumping / Drainage for agriculture, Industrial water / cooling water / drainage, Drainage for civil engineering work, and others



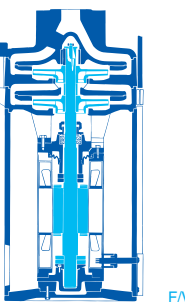
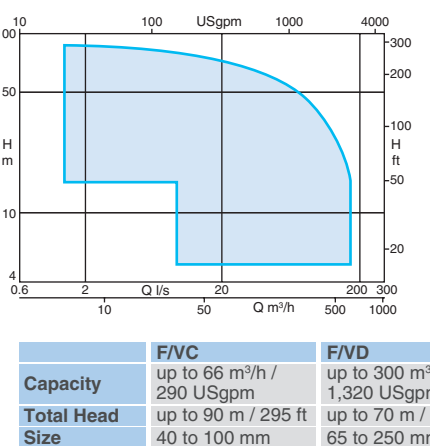
F/VC, F/VD, F/UW, F/SP

Submersible motor pump for shallow well

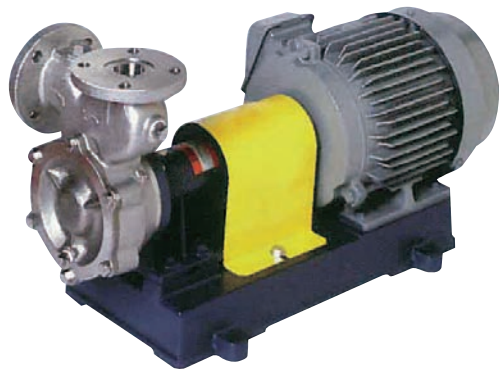
Water sealed three-phase induction motor is adopted for submersible motor. Suction entry of F/VC and F/UW is located at the bottom and that of F/VD and F/SP is between pump and motor.

■Applications

Water intake / Distribution / Water supply for water works, Water feed / Distribution for general industries, Water pumping for agriculture



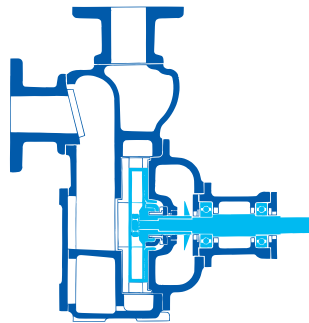
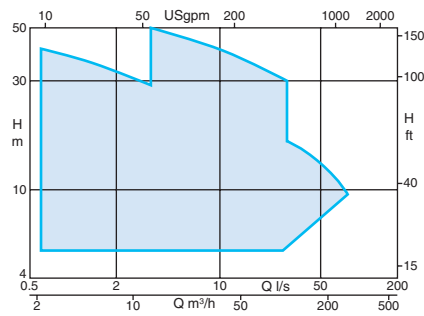
Miscellaneous Pumps



TE/O, TE/CO (Stainless steel) Self priming pump

No need for priming. Offering outstanding self priming performance and durability. Direct-connected motor is standard.

■Applications
For industrial facilities, construction facilities, agriculture, waste water treatment, and others

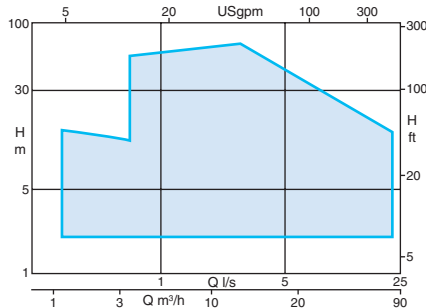


	TE/O	TE/CO
Capacity	up to 300 m³/h / 1,320 USgpm	up to 180 m³/h / 790 USgpm
Total Head	up to 40 m / 130 ft	up to 50 m / 160 ft
Temperature	0 to 40°C / 30 to 100°F	0 to 40°C / 30 to 100°F
Size	25 to 200 mm	25 to 125 mm

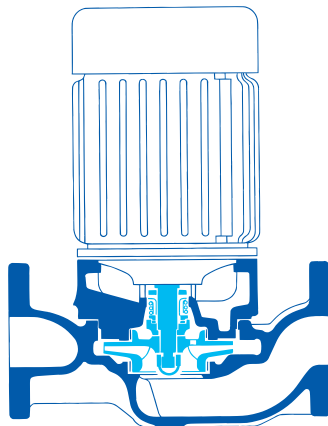
K/LP, K/SLP2 (Stainless steel) Line pump

Pump and 2-pole motor close coupled with common shaft. Line construction of suction entry and discharge fits in any position into a pipeline.

■Applications
Water and hot water circulation in building facilities, Processes for various industries, General water feed, Boosting for water works, and others



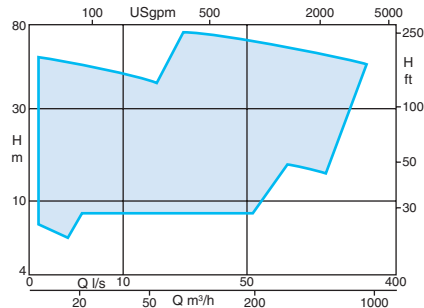
Capacity	up to 84 m³/h / 370 USgpm
Total Head	up to 60 m / 20 ft
Temperature	up to 100°C / 210°F
Size	25 to 100 mm



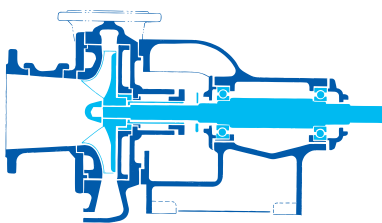
O/PS Pulp pump

Suitable for pumping slurry and pulp stocks up to 5% consistency. The Impeller is Mixed flow type allowing the pump to be used for a wide range of applications.

■Applications
Pulp liquid transfer for paper / pulp industries, Solid transfer / drainage for general industries, Fruit or cereal and water mixture transfer for food industries, and others



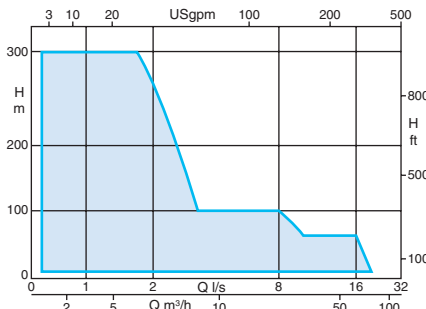
Capacity	up to 780 m³/h / 3,430 USgpm
Total Head	up to 70 m / 230 ft
Size	50 to 250 mm



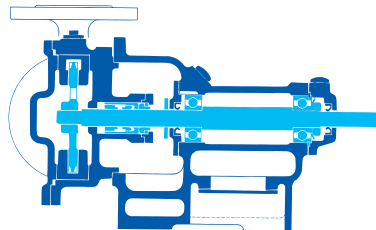
N/WR Wesco pump

Specially-shaped impeller revolves at high speed in casing, makes the flow and absorbs up. Extremely small impeller clearance due to the use of a special method of fixing and special materials to assure high stability. Best suited for applications with small capacity and high head.

■Applications
Water feed / pumping for general industries, Chemical liquid transfer, Various fuel oil transfer, High pressure boiler feed, High pressure washing, and others



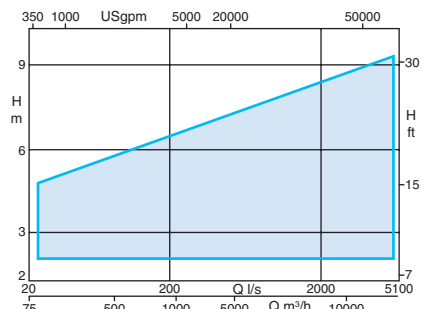
Capacity	up to 72 m³/h / 310 USgpm
Total Head	up to 300 m / 980 ft
Temperature	up to 90°C / 190°F
Size	15 to 80 mm



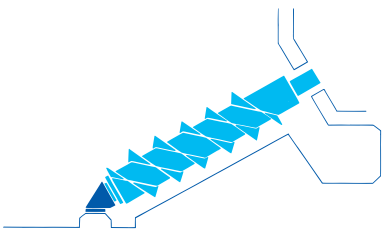
SNK Screw Pump

Suitable for pumping liquids containing small stones, other suspended solids or rags, pieces of wood or ropes, digested or activated sludge etc. The simple, rugged construction and the open screw trough facilitate maintenance and inspection.

■Applications
Water pumping for treatment plants, Water pumping / Drainage for agriculture, Return sludge for sewage treatment plants, Waste water transfer, and others



Capacity	up to 18,000 m³/h / 79,250 USgpm
Total Head	up to 10 m / 32 ft
Size	400 to 3,500 mm

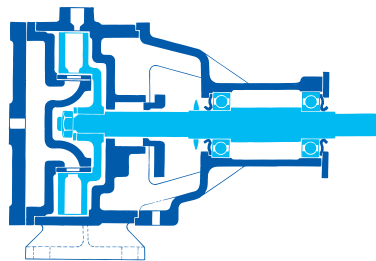


NV Vacuum pump

The rotating, water-sealed pump sucks and exhausts gas using the centrifugal force of the liquid. Continuous gas exhaustion is made without vibration and in complete safety even when water enters in the pump interior during operation.

■Applications
Pump water priming, Gas exhaustion / Vacuum generation / Pressure-feeding for chemical industries

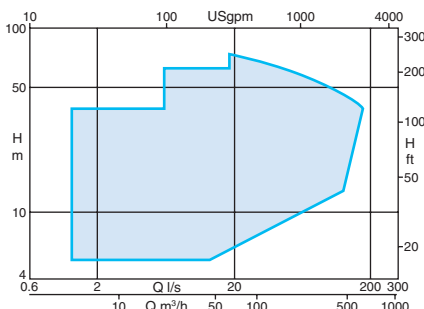
Air Capacity	up to 72 m³/min
Negative Pressure	up to 88 kPa
Size	20 to 100 mm



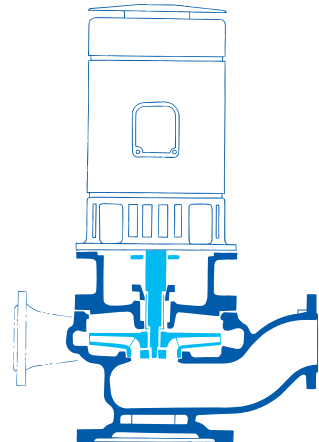
S/T Vertical Volute Pump

Easy-installation close-coupled construction. Size 40 to 100mm back pull-out structure facilitates ease of maintenance.

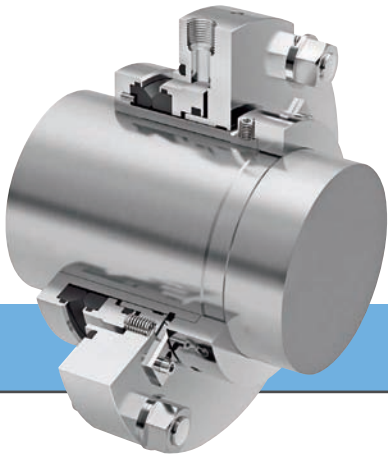
■Applications
Boosting / Water feed / Water pumping for general industries, and others



Capacity	up to 600 m³/h / 2,640 USgpm
Total Head	up to 75 m / 240 ft
Temperature	0 to 80°C / 32 to 176°F
Size	40 to 150 mm



Torishima's Mechanical Seals



Mechanical seals - the shaft seals used in rotating machinery such as pumps, hydraulic turbines, agitators and centrifuges - play an important role in maintaining the safety and economic efficiency of machinery. As a comprehensive manufacturer of pumps, Torishima has never lost sight of the importance of mechanical seals. We are the fastest in the country at moving products from the research and development phase to manufacturing and commercialization.

Today, we provide a wide range of mechanical seals for applications requiring high levels of safety and quality, such as mechanical seals for sealing high-temperature and high-pressure fluids in power plant pumps (including boiler feed pumps and boiler circulating pumps). We also manufacture mechanical seals for pumps used in sewage plants, chemical plants, and desalination plants handling slurry-rich liquid, special highly corrosive liquids, and seawater. Moreover, we have utilized our years of experience in pump manufacturing to provide eco-friendly non-flushing seals, easy-maintenance cartridge seals, and a variety of other optimal mechanical seals for a diverse range of applications.

Mechanical Seal Applications

Field and Application		Power Generation			Seawater Desalination							Water Works & Sewerage			Rivers, Agriculture & Irrigation		Chemicals & Petrochemicals			General Industry, etc.								
		Boiler feed pumps	Boiler circulating pumps	Condensate pumps	Cooling water pumps	High-pressure pumps	Water filtration pumps	Back wash pumps	Brine recirculation pumps	Brine blowdown pumps	Seawater intake pumps	Product water pumps	Water transmission & distribution pumps	Sewage treatment pumps	Stormwater drainage pumps	River drainage pumps	Agricultural pumps	Agricultural drainage pumps	Irrigation pumps	Process pumps	Feed water pumps	Cooling water pumps	Process pumps	Feed water pumps	Cooling water pumps	Electro-deposition paint pumps	Submersible pumps	Sand pumps
Model of Mechanical Seal																												
Rubber bellows seals	LU1000 Series																											
	LD1000 Series (Double seal)																											
Rotating single-spring seals	HU2000 Series (Unbalanced type)																											
	HB2000 Series (Balanced type)																											
Rotating multi-spring seals	MU2000 Series (Unbalanced type)																											
	MB2000 Series (Balanced type)																											
	MT2700 (Balanced type)																											
Stationary multi-spring seals	MB2500 (Balanced type)																											
	MB2704CN (Inside rotating type)																											
Cartridge seals	MB2704CZ (Inside rotating type, with pumping ring)																											
	MB8500CN (Stationary inside type)																											
	MB8500CZ (Stationary inside type, with pumping ring)																											
	MB2400CN (Outside rotating type)																											
Split seals	MB2901 (Stationary balanced type, non-flushing)																											
	MU2922 (Stationary balanced type, dry running application)																											
	MT9200 (Stationary balanced type, dry running application)																											
Stationary seals	MT4100 (Balanced type)																											
Special-purpose seals	For hydraulic turbines																											
	For submersible sand pumps																											

Torishima's Service Solutions



As a premier engineered equipment supplier, Torishima is committed to provide the highest quality aftermarket service. Our innovative solutions can enhance performance and increase the life span of pumps, other equipment and plants. This allows operators to maximize efficiency, reduce maintenance costs and conserve energy.

Installation & Field Test

Torishima provides field engineering service wherever needed to supervise pump installation work and equipment commissioning, ensuring the pumping equipment can meet customer expectations.

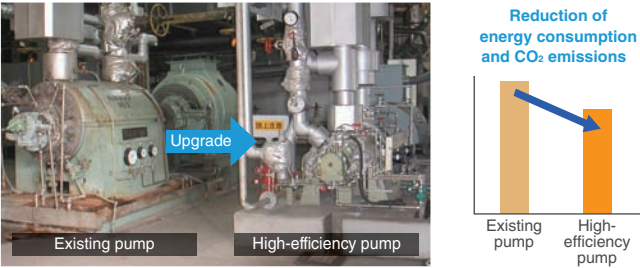
Maintenance, Overhaul, Operator Training

Torishima offers targeted advice after performing a full maintenance inspection of the entire pump installation, performing necessary maintenance, and diagnosing whether the facility is being operated under the optimal conditions. When pumping equipment breaks down, our experienced engineers determine the basic cause through a full analysis and replace broken parts to ensure rapid restoration. In addition, we provide hands-on guidance and training to plant operators.

Solution Provider

To improve your plant's productivity, Torishima offers longer reliable and high-efficiency pumps. In addition to servicing our own units, we restore, repair, improve and upgrade even for pumps of other manufacturers. Using the most advanced technologies, we offer products that provide you with the highest efficiency and highest possible performance.

Energy Saving Operating cost and CO₂ emissions are reduced by upgrading to a more reliable and higher-efficiency pump.



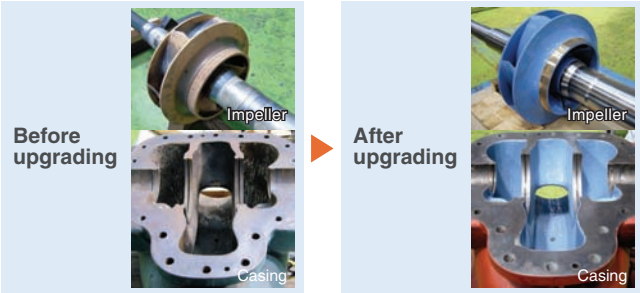
REDU

Re Engineering & Design Up

*REDU is a registration of trademark of TORISHIMA

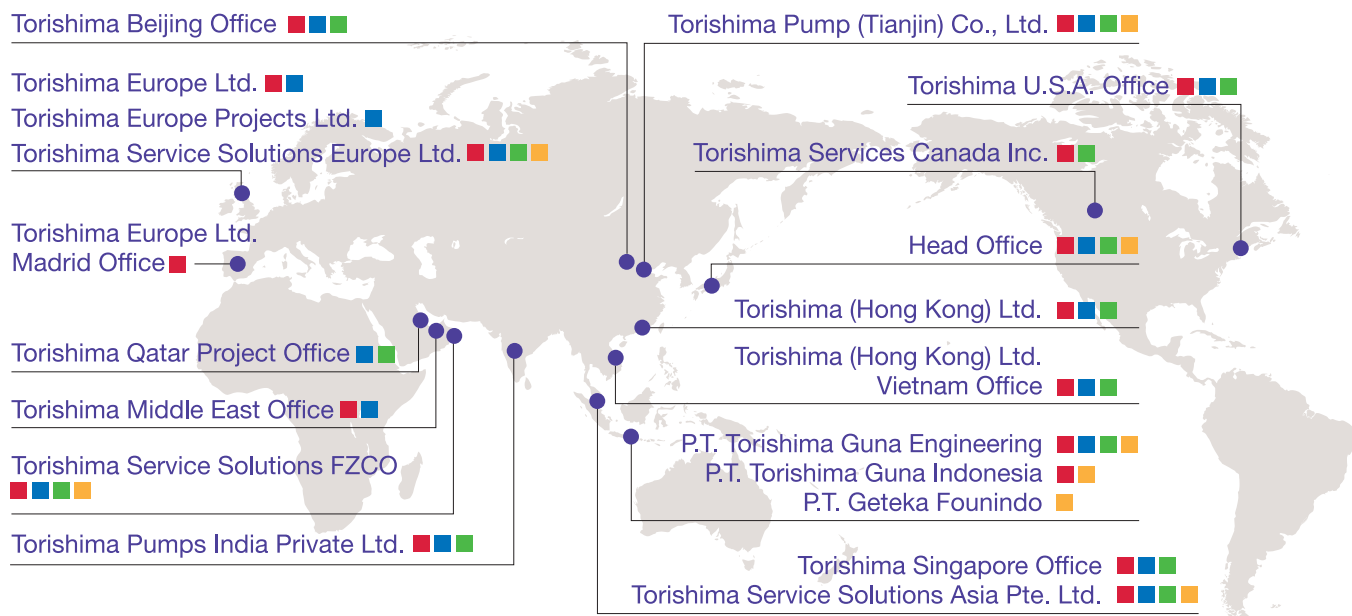
What's REDU?

Torishima has the ability to combine field service engineering and product design technology. This results in our engineers being able to provide advice on improved design and the upgrade of in-site pumping equipment and other rotating equipment.



Global Network

■ Sales ■ Engineering ■ Service ■ Manufacturing



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