

Pumps and Automation



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Our partner tradition:

Competence since 1871

We have supplied generations of customers worldwide with pumps, valves, automation products and services. A company with that kind of experience knows that success is a process based on a stream of innovations. A process made possible by a close working alliance between developer and user, between production and practice.

Partners achieve more together.

We do everything possible to ensure that our customers always have access to the ideal product and system solution.

- Over 140 years' experience
- Present in more than 100 countries
- More than 16,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists

Single-source supplier: your partner for pumps, valves and service

We assist our customers right through the product life cycle

A comprehensive product range, short response times and tailored service and spare parts solutions – no other competitor offers a comparable range of products and services. In all phases of the product life cycle, we are on hand to ensure that our customers secure long-term value from their systems.

We offer our customers a variety of services and spare parts solutions around pumps, valves, and other rotating equipment:

- Technical consultancy
- Installation and commissioning
- Services provided on-site and in our service centres
- Inspection and maintenance
- Maintenance inspection management
- Framework agreements such as TPM® Total Pump Management
- Efficiency analyses with the SES System Efficiency Service or PumpMeter
- Reverse engineering
- Inventory management
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning

Ready wherever you are:
with a global service network and a 24-hour emergency service.



Our mission:

Certified quality assurance

First-class products and excellent service take top priority .

To maintain this level of excellence, we have developed a modern quality management system with globally applicable guidelines. It is based on the Business Excellence model of the European Foundation for Quality Management, which already ensures improved quality management Europewide.

Our guidelines define uniform quality for all locations and have helped us to optimise our manufacturing processes. The results are shorter delivery times and global availability of our products. These guidelines govern the way we act so comprehensively that even the competence of our consulting and the good value for money we offer are clearly stipulated. Like the 'Made in Germany' quality seal, we introduced internal certification as a sign of the highest quality:

Our five key goals:

- **Maximum customer satisfaction:** We do everything to fulfil our customers' wishes on time and in full.
- **Fostering quality awareness:** We put our quality commitment into daily practice – from executives to employees, whose qualifications and competence we foster through continuing training.
- **Prevention rather than cure:** We systematically analyse errors and prevent the causes.
- **Improvement in quality:** We continually optimise our processes in order to work more efficiently.
- **Involvement of suppliers:** We attach great importance to working together fairly and openly to achieve our shared goals.



As a signatory to the United Nations Global Compact, is committed to endorsing the ten principles of the international community in the areas of human rights, labour standards, environmental protection and anti-corruption.



Saving energy has never been so easy

The clever interaction between the five modules of FluidFuture®, energy efficiency concept, ensures maximum efficiency for your pump system. Following the introduction of SuPremE® motors, FluidFuture® now features a new generation of motors that enable you to run your system more leanly than with any other pump drive.

FluidFuture® – five modules for greater efficiency

Uses the energy efficiency concept FluidFuture® to assess the entire hydraulic system. The objective: to increase overall efficiency. Following a comprehensive system analysis, selects high-efficiency pumps, valves and motors to optimise the system and ensure maximum efficiency with demand-driven operation. This means maximum energy savings for you.

Perfect combination

Combining high-efficiency components reduces energy consumption and saves you real money. The interaction of SuPremE® motor, PumpDrive variable speed system and PumpMeter is a case in point. While the operating pressure is continually measured by the intelligent PumpMeter pressure sensor, PumpDrive ensures it is adjusted to the actual demand. Especially in the low-flow range this plays an important role. It also reduces energy costs and wear on components. The savings achieved are further maximised by the exceptional efficiency of the SuPremE® motor.



SYSTEM ANALYSIS

Our experts analyse your system and show where you can save energy – with SES System Efficiency Service or PumpMeter.



SELECTION

Your partner will help you find exactly the right pumps and valves.



HIGH-EFFICIENCY PUMPS & VALVES

Top pump and valve performance with minimum loss – all thanks to 140 years of innovation and expertise.



HIGH-EFFICIENCY DRIVES

Our high-efficiency motors even exceed today's standards.



DEMAND-DRIVEN OPERATION

Optimised control systems like PumpDrive continuously match pump output to system requirements.

General Information

Fluid Future® energy efficiency concept	 FluidFuture® is our comprehensive energy efficiency concept for your entire hydraulic system. Its aim is to improve your plant's efficiency. To make that reality, we've developed five interlocking modules. Together they enable us to identify and achieve savings right through the life cycle of your pumps and valves. You can maximise savings by optimising the overall efficiency of your plant, making it run more cost-effectively, efficiently and longer. FluidFuture® benefits your company, our environment and generations to come.
ErP	 ErP regulations stipulating new, stricter minimum efficiency values became effective at the start of 2015. Since then, only pumps and motors which satisfy the energy efficiency requirements of the European Union's ErP Directive may be placed on the market. For products this is child's play. They are so efficient, many actually exceed the values required since 2015 – some even those applicable from 2017 as per the ErP regulations.
Regional products	Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.

Pumps

Design / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Circulators / hot water service pumps, fixed speed	Riotherm	28				■				■	
Drinking water circulators, fixed speed	Calio-Therm S NC/NCV	28								■	
	Rio-Therm N	28								■	
Drinking water circulators, variable speed	Rio-Eco Therm N	28			■					■	
	Calio-Therm S	29			■					■	
Circulators, variable speed	Calio S	29	■	■	■					■	
	Calio	29	■	■	■					■	
	Rio-Eco N	29	■	■	■					■	
	Rio-Eco Z N	29	■	■	■					■	
In-line pumps	Etaline	30	■	■		■		■		■	
	Etaline Z	30	■	■		■		■		■	
	Etaline-R	30	■	■		■		■		■	
	ILN / ILNE / ILNS	30				■	■	■		■	
	ILNC / ILNCE / ILNCS	30				■	■	■		■	
Standardised / close-coupled pumps	Etanorm	31	■	■		■	■	■	■	■	
	Etanorm-R	31	■	■		■	■	■	■	■	
	Etabloc	31	■	■		■	■	■	■	■	
	Etachrom B	31	■	■		■	■	■	■	■	
	Etachrom L	32	■	■		■	■	■	■	■	
	Etanorm V	32					■	■	■	■	
Hot water pumps	HPK-L	32				■		■	■	■	
	HPH	32				■		■	■	■	
	HPK	32				■		■	■	■	
Hot water / thermal oil pumps	Etanorm SYT / RSY	33				■		■		■	
	Etabloc SYT	33				■		■		■	
	Etaline SYT	33				■		■		■	
Thermal oil pumps with magnetic drive or canned motor	HX (Nikkiso)	34						■			
	HY (Nikkiso)	34						■			
Standardised chemical pumps	MegaCPK	34	■			■		■	■		
	CPKN	34	■			■		■	■		
Seal-less pumps	Magnochem	35				■		■	■		
	Magnochem-Bloc	35				■		■	■		
	Etaseco / Etaseco-I	35				■	■	■	■	■	
	Etaseco RVP	35				■	■	■	■	■	
	Secochem Ex	35				■		■	■		
	Secochem Ex K	36				■		■	■		
	Ecochem Non-Seal HN	36				■		■	■		
	Ecochem Non-Seal HT	36				■		■	■		
	Ecochem Non-Seal HP	36				■		■			
	Ecochem Non-Seal HS	36				■		■	■		
	HN (Nikkiso)	36				■		■	■		
	HT (Nikkiso)	36				■		■	■		
	HK (Nikkiso)	36				■		■			
	VN (Nikkiso)	37				■		■	■		
	DN (Nikkiso)	37				■		■			

Design / Application	Type series	Page	FluidFuture®	ErP	Factory- automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Process pumps	RPH	37						■	■		
	RPHb	37						■	■		
	RPH-V	37						■	■		
	RPHmdp	38						■	■		
	CTN	38						■			
	API series (Nikkiso)	38						■			
	CHTR	38						■	■		
	CINCP / CINCN	38						■	■		
	INVCP / INVCN	39					■	■	■		
	RWCP / RWCN	39					■	■	■		
	WKTR	39						■			
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	40			■		■			■	
	Hya-Rain Eco	40			■		■			■	
Domestic water supply systems with automatic control unit / swimming pool pumps	Multi Eco	40				■	■			■	
	Multi Eco-Pro	40			■		■				
	Set 100	41			■					■	
	Multi Eco-Top	41			■		■			■	
	Movitec VME	41	■	■		■	■	■		■	
	Ixo N	41				■	■			■	
	Ixo-Pro	41			■		■			■	
	Filtra N	42								■	
Pressure booster systems	Hya-Solo EV	42			■		■			■	
	Hya-Solo D	42			■		■	■		■	
	Hya-Solo DSV	42			■		■	■		■	
	Hya-Solo D FL	42			■			■		■	
	Hya-Duo D FL	43			■			■		■	
	Hya-Solo D FL Compact	43			■			■		■	
	Hya-Duo D FL Compact	43			■			■		■	
	Superbloc SBC.B	44			■		■	■		■	
	Surpress Eco SE.2.B	44			■		■	■		■	
	Hya-Eco VP	43			■		■	■		■	
	Hyamat K	43			■		■	■		■	
	Hyamat V	44			■		■	■		■	
	Hyamat SVP	44			■		■	■		■	
	Surpress Eco SE.2.B VP	44			■		■	■		■	
	Surpresschrom SIC.2	45			■		■	■		■	
	Surpresschrom SIC.2 V	45			■		■	■		■	
	Surpresschrom SIC.2 SVP	45			■		■	■		■	
	Surpressbloc SB	45			■		■	■		■	
	Surpress Feu SFE	45			■			■		■	
	Surpress SP	46			■		■			■	
	Surpress SP VP	46			■		■			■	
Drainage pumps / waste water pumps	Ama-Drainer N 301 – 358	46				■				■	
	Ama-Drainer 4.. / 5..	46				■		■		■	
	Ama-Drainer 80, 100	46				■				■	
	Ama-Porter F / S	47				■				■	
	Rotex	47						■		■	
	MK / MKY	47				■		■		■	

Design / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Lifting units / pump stations	AmaDS³	47				■	■			■	
	Kondensat-Lift	47			■					■	
	Ama-Drainer-Box Mini	48			■					■	
	Ama-Drainer-Box	48			■					■	
	Evamatic-Box N	48								■	
	Eva-Clean	48								■	
	mini-Compacta	48			■					■	
	Compacta	49			■			■		■	
	CK 800 Pump Station	49			■		■	■		■	
	CK 1000 Pump Station	49			■		■	■		■	
	Ama-Porter CK Pump Station	49			■		■			■	
	SRP	49								■	
Submersible motor pumps	Amarex N	50				■	■	■		■	
	Amarex N S 32	50				■	■	■		■	
	Amarex KRT	50	■			■	■	■		■	
	Amarex KRT (jacket cooling)	50	■			■	■	■		■	
	Amarex KRT (convection cooling)	50	■			■	■	■		■	
Submersible pumps in discharge tubes	Amacan K	51				■	■				
	Amacan P	51				■	■				
	Amacan S	51				■	■				
Mixers / agitators / tank cleaning units	Amamix	52					■	■			
	Amaprop	52					■	■			
	Amajet	52					■	■			
	Amaline	52					■	■			
Pumps for solids-laden fluids	Sewatec	53				■	■	■			
	Sewabloc	53				■	■	■			
	KWP / KWP-Bloc	53				■	■	■	■		■
Slurry pumps	WBC	54									■
	LSA-S	54						■	■		■
	LCC-M	54						■	■		■
	LCC-R	54						■	■		■
	TBC	54									■
	LCV	55									■
	FGD	55						■	■		■
	Mega	55									■
	MHD	55									■
	LHD	55									■
	MDX	56						■			■
	ZW	56									■
	HVF	56						■			■
Self-priming pumps	Etaprime L	57					■	■			
	Etaprime B	57					■	■			
	EZ B/L	57					■	■	■	■	
Submersible borehole pumps	S 100D	58	■	■		■	■	■		■	
	UPA 100C	58	■	■		■	■	■		■	
	UPA 150C	58	■	■		■	■	■		■	
	UPA 200, 200B, 250C	58				■	■	■			
	UPA 300, 350	58				■	■	■			
	UPZ, BSX-BSF	59				■	■	■			
Deep-well turbine pumps	BEV	59					■	■	■	■	
High-pressure pumps	Comeo	60				■	■	■		■	
	Movitec	60	■	■		■	■	■	■	■	
	Movitec VCI	60	■	■		■	■	■			
	Multitec	60	■			■	■	■	■	■	

Design / Application	Type series	Page	FluidFuture®	ErP	Factory- automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Axially split pumps	Omega	61	■			■	■	■	■	■	
	RDLO	61				■	■	■	■	■	
	RDLP	61					■				
Hygienic pumps for the food, beverage and pharmaceutical industries	Vitachrom	61				■	■	■			
	Vitacast	62				■	■	■			
	Vitaprime	62				■		■			
	Vitastage	62				■	■	■			
	Vitalobe	62				■		■			
Pumps for power station conventional islands	CHTA / CHTC / CHTD	63							■		
	HGB / HGC / HGD	63						■	■		
	HGM	63				■		■	■		
	YNK	63							■		
	LUV / LUV A	63							■		
	WKT B	64							■		
	SEZ / SEZT / PHZ / PNZ	64					■	■	■		
	SNW / PNW	64					■	■	■		
	Beveron	64					■	■	■		
	SPY	64					■	■	■		
Pumps for nuclear power stations	RER	65							■		
	RSR	65							■		
	RUV	65							■		
	PSR	65							■		
	RHD	65							■		
	LUV Nuclear	66							■		
	RHM	66							■		
	RVM	66							■		
	RHR	66							■		
	RVR	66							■		
Pumps and pressure exchangers for seawater desalination by reverse osmosis	RPH-RO	67					■				
	HGM-RO	67					■				
	Multitec-RO	67				■	■	■			
	SALINO Pressure Center	67				■	■				
Positive displacement pumps	RC / RCV	68						■			
Fire-fighting systems	EDS	68			■		■	■		■	
	DU / EU	68			■		■	■		■	

Automation and drives

Design / Application	Type series	Page	FluidFuture	ErP	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Automation and drives	SuPremE	27	■		■	■		■	
Control units	Controlmatic E	69			■			■	
	Controlmatic E.2	69			■			■	
	Cervomatic EDP.2	69			■			■	
	LevelControl Basic 2	69			■	■		■	
	UPA Control	69			■			■	
	Hyatronic N	70			■	■		■	
Variable speed system	PumpDrive 2 / PumpDrive 2 Eco	27	■		■	■		■	
Monitoring and diagnosis	PumpMeter	27	■		■	■		■	
Control system	Amacontrol	70			■	■			
	BOA-Systronic	70	■					■	

Fluids handled

	Riotherm	Calio-Therm S NCNCV Rio-Therm N	Rio-Eco Therm N Calio-Therm S	Calio S Calio Rio-Eco N Rio-Eco Z N	Etaline Etaline Z Etaline-R ILN / ILNE / ILNS ILNC / ILNCE / ILNCS	Etanorm / Etanorm-R Etabloc Etachrom B Etachrom L Etanorm V	HPK-L HPH HPK	Etanorm SYT / RSY Etabloc SYT / Etaline SYT
Waste water with faeces								
Waste water without faeces								
Aggressive liquids								
Inorganic liquids								
Activated sludge								
Brackish water								
Service water	■	■	■	■	■	■	■	■
Distillate							■	
Slurries								
Explosive liquids								
Digested sludge								
Solids (ore, sand, gravel, ash)								
Flammable liquids								
River, lake and groundwater								
Liquefied gas								
Food and beverage production								
Gas-containing liquids								
Filtered water								
Harmful liquids								
Toxic liquids								
High-temperature hot water					■	■	■	■
Heating water		■	■	■	■	■	■	■
Highly aggressive liquids								
Industrial service water	■	■	■		■	■	■	■
Condensate							■	
Corrosive liquids								
Valuable liquids								
Fuels								
Coolant								
Cooling lubricant								
Cooling water	■	■	■	■	■	■	■	■
Volatile liquids								
Fire-fighting water								
Solvents								
Seawater								
Oils							■	■
Organic liquids							■	■
Pharmaceutical fluids								
Polymerising liquids								
Rainwater / stormwater								
Cleaning agents								
Raw sludge								
Lubricants								
Waste water								
Swimming pool water								
Brine								
Feed water								
Dipping paints								
Drinking water	■	■	■		■	■	■	■
Thermal oil								
Hot water	■	■	■	■	■	■	■	■
Wash water								

Fluids handled

[illegible]

Fluids handled

[illegible]

Fluids handled

		Surpress Eco SE.2.B VP	Surpresschrom SIC.2	Surpresschrom SIC.2 V	Surpresschrom SIC.2 SVP	Surpressbloc SB	Surpress Feu SFE	Surpress SP	Surpress SP VP		Ama-Drainer N 301 – 358	Ama-Drainer 4.. / 5..	Ama-Drainer 80, 100	Ama-Porter F / S	Rotex	MK / MKY		AmaDS³	Kondensat-Lift	Ama-Drainer-Box Mini	Ama-Drainer-Box	Evamatic-Box N	Eva-Clean	mini-Compacta	Compacta	CK 800 Pump Station	CK 1000 Pump Station	Ama-Porter CK-Pumpstation	SRP		Amarex N	Amarex N S 32	Amarex KRT	Amarex KRT (jacket cooling)	Amarex KRT (convection cooling)		
	Pressure booster systems																																				
	Waste water with faeces																																				
	Waste water without faeces																																				
	Aggressive liquids																																				
	Inorganic liquids																																				
	Activated sludge																																				
	Brackish water																																				
	Service water																																				
	Distillate																																				
	Slurries																																				
	Explosive liquids																																				
	Digested sludge																																				
	Solids (ore, sand, gravel, ash)																																				
	Flammable liquids																																				
	River, lake and groundwater																																				
	Liquefied gas																																				
	Food and beverage production																																				
	Gas-containing liquids																																				
	Filtered water																																				
	Harmful liquids																																				
	Toxic liquids																																				
	High-temperature hot water																																				
	Heating water																																				
	Highly aggressive liquids																																				
	Industrial service water																																				
	Condensate																																				
	Corrosive liquids																																				
	Valuable liquids																																				
	Fuels																																				
	Coolant																																				
	Cooling lubricant																																				
	Cooling water																																				
	Volatile liquids																																				
	Fire-fighting water																																				
	Solvents																																				
	Seawater																																				
	Oils																																				
	Organic liquids																																				
	Pharmaceutical fluids																																				
	Polymerising liquids																																				
	Rainwater / stormwater																																				
	Cleaning agents																																				
	Raw sludge																																				
	Lubricants																																				
	Waste water																																				
	Swimming pool water																																				
	Brine																																				
	Feed water																																				
	Dipping paints																																				
	Drinking water																																				
	Thermal oil																																				
	Hot water																																				
	Wash water																																				

Fluids handled

	Submersible pumps in discharge tubes			Mixers / agitators / tank cleaning units				Pumps for solids-laden fluids			Slurry pumps			Self-priming pumps											
	Amacan K	Amacan P	Amacan S	Amamix	Amaprop	Amajet	Amaline	Sewatec	Sewabloc	KWP / KWP-Bloc	WBC	LSA-S	LCC-M / LCC-R	TBC	LCV	FGD	Mega	MHD	LHD	MDX	ZW	HVF	Etaprime L	Etaprime B	EZ B/L
Waste water with faeces				■	■	■	■	■	■	■															
Waste water without faeces				■	■	■	■	■	■	■													■	■	
Aggressive liquids										■		■	■										■	■	
Inorganic liquids																									
Activated sludge	■						■	■	■																
Brackish water																									
Service water	■	■	■			■				■															
Distillate																									
Slurries										■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Explosive liquids																									
Digested sludge								■	■																
Solids (ore, sand, gravel, ash)										■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Flammable liquids																									
River, lake and groundwater		■	■					■	■	■															
Liquefied gas																									
Food and beverage production																									
Gas-containing liquids										■															
Filtered water																								■	
Harmful liquids																									
Toxic liquids																									
High-temperature hot water																									
Heating water																									
Highly aggressive liquids																									
Industrial service water	■	■	■			■				■															
Condensate																									
Corrosive liquids										■			■			■									
Valuable liquids																									
Fuels																									
Coolant																									
Cooling lubricant																									
Cooling water										■															
Volatile liquids																									
Fire-fighting water																									
Solvents																									
Seawater										■															
Oils																									
Organic liquids																									
Pharmaceutical fluids																									
Polymerising liquids																									
Rainwater / stormwater		■	■			■		■	■																
Cleaning agents																									
Raw sludge								■	■																
Lubricants																									
Waste water								■	■	■			■		■		■				■				
Swimming pool water																									

Fluids handled

[illegible]

Fluids handled

[illegible]

Applications

	Riotherm	Calio-Therm S NCNCV Rio-Therm N	Rio-Eco Therm N Calio-Therm S	Calio S Calio Rio-Eco N Rio-Eco Z N	Etaline Etaline Z Etaline-R ILN / ILNE / ILNS ILNC / ILNCE / ILNCS	Etanorm / Etanorm-R Etanorm Etachrom B Etachrom L Etanorm V	HPK-L HPH HPK	Etanorm SYT / RSY Etanorm SYT / Etaline SYT
Aquaculture								
Spray irrigation								
Mining								
Irrigation								
Chemical industry								
Dock facilities								
Drainage								
Pressure boosting								
Sludge thickening								
Disposal								
Dewatering								
Descaling units								
District heating								
Solids transport								
Fire-fighting systems								
Drawdown of groundwater levels								
Maintaining groundwater levels								
Domestic water supply								
Flood control / coast protection								
Homogenisation								
Industrial recirculation systems								
Nuclear power stations								
Boiler feed applications								
Boiler recirculation								
Waste water treatment plants								
Air-conditioning systems								
Condensate transport								
Cooling circuits								
Paint shops								
Food and beverage industry								
Seawater desalination / reverse osmosis								
Mixing								
Off-shore platforms								
Paper and pulp industry								
Petrochemical industry								
Pharmaceutical industry								
Pipelines and tank farms								
Refineries								
Flue gas desulphurisation								
Rainwater harvesting								
Cleaning of stormwater tanks / storage sewers								
Recirculation								
Dredging								
Shipbuilding								
Sludge disposal								
Sludge processing								
Snow-making systems								
Heavy oil and coal upgrading								
Swimming pools								
Solar thermal energy systems								
Fountains								
Keeping in suspension								
Thermal oil circulation								
Draining of pits, shafts, etc.								
Process engineering								
Heat recovery systems								
Hot-water heating systems								
Washing plants								
Water treatment								
Water extraction								
Water supply								
Sugar industry								

Applications

		HX HY	MegaCPK CPCN			RPH RPh RPH-V RPHmdp CTN API series CHTR CINCP / CINCN INVCP / INV/CN RWCP / RW/CN WKTR
Aquaculture						
Spray irrigation						
Mining						
Irrigation						
Chemical industry						
Dock facilities						
Drainage						
Pressure boosting						
Sludge thickening						
Disposal						
Dewatering						
Descaling units						
District heating						
Solids transport						
Fire-fighting systems						
Drawdown of groundwater levels						
Maintaining groundwater levels						
Domestic water supply						
Flood control / coast protection						
Homogenisation						
Industrial recirculation systems						
Nuclear power stations						
Boiler feed applications						
Boiler recirculation						
Waste water treatment plants						
Air-conditioning systems						
Condensate transport						
Cooling circuits						
Paint shops						
Food and beverage industry						
Seawater desalination / reverse osmosis						
Mixing						
Off-shore platforms						
Paper and pulp industry						
Petrochemical industry						
Pharmaceutical industry						
Pipelines and tank farms						
Refineries						
Flue gas desulphurisation						
Rainwater harvesting						
Cleaning of stormwater tanks / storage sewers						
Recirculation						
Dredging						
Shipbuilding						
Sludge disposal						
Sludge processing						
Snow-making systems						
Heavy oil and coal upgrading						
Swimming pools						
Solar thermal energy systems						
Fountains						
Keeping in suspension						
Thermal oil circulation						
Draining of pits, shafts, etc.						
Process engineering						
Heat recovery systems						
Hot-water heating systems						
Washing plants						
Water treatment						
Water extraction						
Water supply						
Sugar industry						

Applications

[illegible]

Applications

[illegible]

Applications

[illegible]

Applications

[illegible]

Applications

[illegible]

Drive, variable speed system and monitoring

SuPremE

	No. of pumps Voltage [V]	max. 1 Power supply via PumpDrive only	Description: IEC-compatible, sensorless, magnetless synchronous reluctance motor of efficiency class IE4 (super premium efficiency) to IEC/CD 60034-30 Ed. 2.0 (05-2011) for operation with the PumpDrive S or PumpDrive R variable speed system. Suitable for connection to three-phase 380-480 V mains (via PumpDrive). The motor mounting points comply with EN 50347 specifications to ensure compatibility with standardised IEC frame motor applications and full interchangeability with IE2 or IE3 standardised asynchronous motors. Envelope dimensions lie within the limits for IE2 /IE3 motors as recommended in DIN V 42673 (07-2011). The motor is controlled without rotor position indicators. The efficiency of the motor also exceeds 95 percent of nominal efficiency when the motor runs at 25 percent of its nominal power on a quadratic torque-speed curve. The motor is magnetless which means that, in particular, so-called rare earths are not used in production. Drive production is thus sustainable and environmentally friendly. Applications: For use with dry-installed variable speed pumps which can be driven by standardised foot-mounted and/or flange-mounted motors.
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PumpDrive 2 / PumpDrive 2 Eco

	No. of pumps P [kW] Voltage [V] Frequency inverter	max. 6 55 3~380 – 480 1 per motor	Description: Self-cooling variable speed system which allows the motor speed to be varied continuously by means of standard signals and a field bus. As PumpDrive is self-cooling, it can be mounted on the motor, on the wall or in a control cabinet. From two to six pumps can be controlled without needing an additional controller. Applications: Cooling circuits, filters, water supply systems, heating, ventilation and air-conditioning systems, spray irrigation systems, boiler feed systems, steam generation plants, process circuits, cooling lubricant supply systems, service water supply systems and other process engineering applications.
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PumpMeter

	No. of pumps Voltage [V]	max. 1 24 V DC	Description: The PumpMeter device is an intelligent pressure transmitter for pumps, with on-site display of measured values and operating data. The device comprises two pressure sensors and a display unit. It records the load profile of the pump in order to indicate any potential for optimising energy efficiency and availability. Applications: For monitoring pump operation.
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Circulators / hot water service pumps, fixed speed

Riotherm

	Rp	1 – 1¼	Description: Screw-ended glanded pump with mechanical seal and fixed speed. Applications: Hot water supply, swimming pools, cooling circuits and industrial plants.
	Q [m³/h]	max. 10	
	H [m]	max. 6	
	p [bar]	max. 10	
	T [°C]	-2 to +110	
Data for 50 Hz operation Also available for 60 Hz			
Switchgear			

Drinking water circulators, fixed speed

Calio-Therm S NC/NCV

	Rp	½ – 1¼	Description: Maintenance-free screw-ended glandless pump with 3 speed levels. Applications: Drinking water circulation systems
	Q [m³/h]	max. 0.7	
	H [m]	max. 1	
	p [bar]	max. 10	
	T [°C]	+5 to +65	
Data for 50 Hz operation Suitable for 50 Hz and 60 Hz operation			

Rio-Therm N

	Rp / DN	½ – 1¼ / 40 – 80	Description: Maintenance-free screw-ended or flanged glandless pump, with up to four speed levels. Applications: Hot water supply, drinking water circulation systems and similar systems in industry and building services (e.g. cooling water recirculation).
	Q [m³/h]	max. 50	
	H [m]	max. 9	
	p [bar]	max. 10	
	T [°C]	max. +80	
n [rpm]		max. 2800	

Drinking water circulators, variable speed

Rio-Eco Therm N

	Rp / DN	1 – 1¼ / 32 – 80	Description: Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control. Applications: Hot water supply, drinking water circulation systems and similar systems in industry and building services (e.g. cooling water recirculation).
	Q [m³/h]	max. 38	
	H [m]	max. 12	
	p [bar]	max. 10	
	T [°C]	max. +80	
n [rpm]		max. 3700	

Calio-Therm S



Rp	1 – 1¼
Q [m³/h]	max. 3.5
H [m]	max. 6
p [bar]	max. 10
T [°C]	max. +80
n [rpm]	max. 3000

Description:
Maintenance-free high-efficiency screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

Applications:
Hot water supply, drinking water circulation systems and similar systems in industry and building services (e.g. cooling water recirculation).

Circulators, variable speed

Calio S



Rp	½ – 1¼
Q [m³/h]	max. 3.5
H [m]	max. 6
p [bar]	max. 10
T [°C]	+5 to +95
n [rpm]	max. 3000

Description:
Maintenance-free high-efficiency screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

Applications:
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems.



Calio



Rp / DN	1 – 1¼ / 32 – 100
Q [m³/h]	max. 70
H [m]	max. 18
p [bar]	max. 16
T [°C]	-10 to +110
n [rpm]	max. 3660

Description:
Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

Applications:
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems.



Rio-Eco N



Rp / DN	65 – 80
Q [m³/h]	max. 65
H [m]	max. 12
p [bar]	max. 10
T [°C]	-10 to +110

Description:
Maintenance-free, flanged high-efficiency glandless pump with high-efficiency electric motor with integrated motor protection and alarm relay (general fault message) and continuously variable differential pressure control.

Applications:
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems.



Rio-Eco Z N



DN	65 – 80
Q [m³/h]	max. 56
H [m]	max. 12
p [bar]	max. 10
T [°C]	-10 to +110
n [rpm]	max. 3550

Description:
Maintenance-free, flanged high-efficiency glandless twin pump with integrated motor protection and alarm relay (general fault message) and integrated frequency inverter for continuously variable differential pressure control.

Applications:
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems.



In-line pumps

Etaline



DN	32 – 200
Q [m³/h]	max. 700
H [m]	max. 95
p [bar]	max. 16
T [°C]	-30 to +140

Description:

Single-stage volute casing pump in in-line design with standardised motor; pump shaft and motor shaft are rigidly connected.

Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, water supply systems, service water supply systems and industrial recirculation systems.



● PumpMeter, PumpDrive, Switchgear, SuPremE

Etaline Z



DN	32 – 200
Q [m³/h]	max. 1095
H [m]	max. 38.5
p [bar]	max. 16
T [°C]	-30 to +140

Description:

Single-stage volute casing pump in in-line twin design with standardised motor; pump shaft and motor shaft are rigidly connected.

Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, water supply systems, service water supply systems and industrial recirculation systems.



● PumpMeter, PumpDrive, Switchgear, SuPremE

Etaline-R



DN	150 – 350
Q [m³/h]	max. 1900
H [m]	max. 93
p [bar]	max. 25
T [°C]	-30 to +140

Description:

Vertical, close-coupled pump with volute casing in in-line design and standardised motor.

Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, water supply systems, service water supply systems and industrial recirculation systems.



● PumpMeter, PumpDrive, Switchgear, SuPremE

ILN / ILNE / ILNS



DN	65 – 400
Q [m³/h]	max. 3100
H [m]	max. 112
p [bar]	max. 16
T [°C]	-20 to +70
n [rpm]	max. 3000

Description:

Vertical in-line centrifugal pump with closed impeller and mechanical seal. ILNS fitted with an auxiliary vacuum pump, ILNE with ejector. Back pull-out design allows the impeller to be dismantled without removing the pipes and the motor.

Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems.

● PumpDrive, Switchgear

ILNC / ILNCE / ILNCS



DN	32 – 125
Q [m³/h]	max. 370
H [m]	max. 112
p [bar]	max. 16
T [°C]	-20 to +70
n [rpm]	max. 3000

Description:

Vertical close-coupled centrifugal pump in in-line design, with electric motor, closed impeller and mechanical seal. ILNCS fitted with an auxiliary vacuum pump, ILNCE with ejector. Standardised IEC frame motor.

Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems.

● PumpDrive, Switchgear

Standardised / close-coupled pumps

Etanorm



DN	25 – 150
Q [m³/h]	max. 740
H [m]	max. 160
p [bar]	max. 16
T [°C]	-30 to +140

Description:

Volute casing pump, single-stage, ratings to EN 733, meets the requirements of the 2009/125/EC directive, radially split volute casing, volute casing with integrally cast pump feet, replaceable casing wear rings (optionally available for casings in material variant C), closed radial impeller with multiply curved vanes, single mechanical seals to EN 12756, double mechanical seals to EN 12756, shaft fitted with a replaceable shaft protecting sleeve in the shaft seal area.

Applications:

For pumping pure liquids not chemically or mechanically aggressive to the pump materials: water supply, cooling water, swimming pool water, fire-fighting systems, seawater, spray irrigation, fire-fighting water, irrigation, service water, cleaning agents, drinking water, brackish water, drainage, condensate, heating, air-conditioning, oils, hot water.



● PumpMeter, PumpDrive, SuPremE

Etanorm-R



DN	125 – 300
Q [m³/h]	max. 1900
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +140

Description:

Horizontal volute casing pump, single-stage (size 125-500 with two stages), long-coupled, in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings. ATEX-compliant version available.

Applications:

Spray irrigation, irrigation, drainage, district heating, water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, fire-fighting systems, handling hot water, cooling water, fire-fighting water, oil, brine, drinking water, brackish water, service water, etc.



● PumpMeter, PumpDrive, SuPremE

Etabloc



DN	25 – 150
Q [m³/h]	max. 740
H [m]	max. 160
p [bar]	max. 16
T [°C]	-30 to +140

Description:

Volute casing pump, single-stage, ratings to EN 733, meets the requirements of the 2009/125/EC directive, radially split volute casing (some volute casings with integrally cast pump feet), replaceable casing wear rings (optionally available for casings in material variant C), closed radial impeller with multiply curved vanes, single mechanical seals to EN 12756, double mechanical seals to EN 12756, shaft fitted with a replaceable shaft protecting sleeve in the shaft seal area.

Applications:

Spray irrigation, irrigation, drainage, water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, handling hot water, cooling water, fire-fighting water, seawater, oil, brine, drinking water, cleaning agents, brackish water, service water, etc.



● PumpMeter, PumpDrive, SuPremE

Etachrom B



DN	25 – 80
Q [m³/h]	max. 250
H [m]	max. 105
p [bar]	max. 12
T [°C]	max. +110

Description:

Horizontal single-stage close-coupled annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings. ATEX-compliant version available.

Applications:

Spray irrigation, irrigation, drainage, water supply systems, heating, air-conditioning and fire-fighting systems, condensate transport, swimming pools, handling hot water, cooling water, fire-fighting water, oil, drinking water, cleaning agents and service water.



● PumpMeter, PumpDrive, SuPremE

Etachrom L

	DN	25 – 80	Description: Horizontal single-stage annular casing pump with ratings and main dimensions to EN 733, with replaceable casing wear rings. ATEX-compliant version available. Applications: Water supply systems, spray irrigation, irrigation, drainage, heating, air-conditioning and fire-fighting systems, handling drinking water, service water, hot water, cooling water, swimming pool water, fire-fighting water, condensate, oil and cleaning agents.
	Q [m³/h]	max. 250	
	H [m]	max. 105	
	p [bar]	max. 12	
	T [°C]	-30 to +110	
			

Etanorm V

	DN	32 – 150	Description: Single-stage volute casing pump for vertical installation in closed tanks under atmospheric pressure, with ratings to EN 733. Suitable for immersion depths of up to 2000 mm. Applications: For pumping neutral degreasing and phosphatising solutions, wash water with degreasing agents, dipping paints, etc.
	Q [m³/h]	max. 675	
	H [m]	max. 102	
	p [bar]	max. 16	
	T [°C]	max. +95	
			

Hot water pumps

HPK-L

	DN	25 – 250	Description: Horizontal radially split volute casing pump in back pull-out design to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Equipped with heat barrier, seal chamber air-cooled by integrated fan impeller, no external cooling. ATEX-compliant version available. Applications: For pumping hot water and thermal oil in piping or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems, etc.
	Q [m³/h]	max. 1160	
	H [m]	max. 162	
	p [bar]	max. 40	
	T [°C]	max. +240 / +400	
			

HPK

	DN	150 – 400	Description: Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant version available. Applications: For pumping hot water and thermal oil in piping or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems, etc.
	Q [m³/h]	max. 4150	
	H [m]	max. 185	
	p [bar]	max. 40	
	T [°C]	max. +400	
			

HPH

	DN	40 – 350	Description: Horizontal radially split volute casing pump in back pull-out design, with centreline pump feet, with radial impeller, single-entry, single-stage. Optional TRD type testing by TÜV. ATEX-compliant version available. Applications: For pumping hot water in high-pressure hot water generation plants, as boiler feed or recirculation pump.
	Q [m³/h]	max. 2350	
	H [m]	max. 225	
	p [bar]	max. 110	
	T [°C]	max. +320	

Hot water / thermal oil pumps

Etanorm SYT / RSY



DN	25 – 300
Q [m³/h]	max. 1900
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +350

Description:

Volute casing pump for horizontal installation, back pull-out design, single-stage, ratings and dimensions to EN 733, radially split volute casing, volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings.

Applications:

Heat transfer systems (DIN 4754, VDI 3033) or hot water recirculation.

 PumpDrive, SuPremE

Etabloc SYT



DN	25 – 80
Q [m³/h]	max. 337
H [m]	max. 99
p [bar]	max. 16
T [°C]	max. +350

Description:

Volute casing pump for horizontal and vertical installation, back pull-out design, single-stage, with ratings to EN 733, radially split volute casing, replaceable casing wear rings, volute casing with integrally cast pump feet, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, product-lubricated carbon plain bearing and grease-lubricated radial ball bearing in the motor housing.

Applications:

Heat transfer systems (DIN 4754, VDI 3033) or hot water recirculation.

 PumpDrive, SuPremE

Etaline SYT



DN	32 – 100
Q [m³/h]	max. 316
H [m]	max. 101
p [bar]	max. 16
T [°C]	max. +350

Description:

Single-stage volute casing pump in in-line design with standardised motor; pump shaft and motor shaft are rigidly connected.

Applications:

Heat transfer systems (DIN 4754, VDI 3033) or hot water recirculation.

 PumpDrive, SuPremE

Thermal oil pumps with magnetic drive or canned motor

HX (Nikkiso)



DN	32 – 100
Q [m³/h]	max. 200
H [m]	max. 100
p [bar]	max. 40
T [°C]	max. +350

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal seal-less single-stage pump with fully enclosed canned motor, uncooled. ATEX-compliant version available.

Applications:

For pumping thermal oils and other hot fluids in heat transfer systems to DIN 4754.

HY (Nikkiso)



DN	32 – 80
Q [m³/h]	max. 150
H [m]	max. 100
p [bar]	max. 40
T [°C]	max. +250

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal seal-less single-stage pump with fully enclosed canned motor, uncooled, coolable or heatable. ATEX-compliant version available.

Applications:

For pumping thermal oils and other hot fluids in heat transfer systems to DIN 4754.

Standardised chemical pumps

MegaCPK



DN	25 – 250
Q [m³/h]	max. 1160
H [m]	max. 162
p [bar]	max. 25
T [°C]	max. +400

Description:

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858 / ISO 5199; also available as a variant with "wet" shaft and conical seal chamber. ATEX-compliant version available.

Applications:

For pumping aggressive liquids in the chemical and petrochemical industries and in refinery systems.



● PumpMeter, PumpDrive, SuPremE

CPKN



DN	150 – 400
Q [m³/h]	1160 – 4150
H [m]	162 – 185
p [bar]	max. 25
T [°C]	max. +400

Description:

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Also available as a variant with "wet" shaft, conical seal chamber and/or semi-open impeller (CPKNO). ATEX-compliant version available.

Applications:

For pumping aggressive liquids in the chemical and petrochemical industries, refinery systems, fire-fighting systems and for brine transport.



● PumpDrive

Seal-less pumps

Magnochem



DN	25 – 250
Q [m³/h]	max. 1160
H [m]	max. 162
p [bar]	max. 40
T [°C]	-90 to +300

Description:

Horizontal, seal-less volute casing pump in back pull-out design, with magnetic drive, to DIN EN ISO 2858 / ISO 5199, with radial impeller, single-entry, single-stage. ATEX-compliant version available.

Applications:

For pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.

● PumpMeter, PumpDrive, SuPremE

Magnochem-Bloc



DN	25 – 160
Q [m³/h]	max. 754
H [m]	max. 162
p [bar]	max. 25
T [°C]	max. +200

Description:

Horizontal, seal-less volute casing pump in close-coupled design, with magnetic drive, to DIN EN ISO 2858 / ISO 5199, with radial impeller, single-entry, single-stage. ATEX-compliant version available.

Applications:

For pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.

● PumpMeter, PumpDrive

Etaseco / Etaseco-I



DN	32 – 100
Q [m³/h]	max. 250
H [m]	max. 162
p [bar]	max. 16
T [°C]	max. +140

Description:

Horizontal or vertical seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 733.

Applications:

For pumping aggressive, flammable, toxic, volatile, or valuable liquids in the chemical and petrochemical industries, in environmental engineering and industrial applications.

● PumpMeter, PumpDrive

Etaseco RVP



DN	32
Q [m³/h]	max. 20
H [m]	max. 25
p [bar]	max. 10
T [°C]	max. +85

Description:

Horizontal or vertical seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry.

Applications:

For pumping toxic, volatile or valuable liquids in environmental engineering and industrial applications and as coolant pump in cooling systems. Transport vehicles, environmental engineering and industry; applications where low noise emission, smooth running or long service intervals are required.

● PumpMeter, PumpDrive

Secochem Ex



DN	25 – 100
Q [m³/h]	max. 300
H [m]	max. 150
p [bar]	max. 25
T [°C]	max. +130

Description:

Horizontal seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 22858 / ISO 2858. ATEX-compliant version available.

Applications:

For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries, in environmental engineering and industrial applications.

● PumpDrive, Frequency inverter

Secochem Ex K



DN	25 – 100
Q [m³/h]	max. 300
H [m]	max. 150
p [bar]	max. 25
T [°C]	max. +400

Description:

Horizontal seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 22858 / ISO 2858, with external cooler. ATEX-compliant version available.

Applications:

For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries, in environmental engineering and industrial applications.

PumpDrive, Frequency inverter

Ecochem Non-Seal HN, HP, HT, HS



DN	25 – 250
Q [m³/h]	max. 690
H [m]	max. 236
p [bar]	max. 40
T [°C]	max. +400

Description:

Horizontal seal-less volute casing pump in back pull-out design with hermetically sealed canned motor, low-noise design, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 22858 / ISO 2858, available in standard chemical pump design (HN), with external cooler for hot (HT) or contaminated (HS) fluids, and with internal return line for handling liquefied gas (HP). ATEX-compliant and GOST-TR-compliant versions available.

Applications:

For pumping aggressive, flammable and explosive liquids in the chemical and petrochemical industries and in refinery and heat transfer systems.

PumpDrive, Frequency inverter

HN (Nikkiso)



DN	32 – 300
Q [m³/h]	max. 800
H [m]	max. 200
p [bar]	max. 40
T [°C]	max. +180

Description:

Horizontal (HN) or vertical (BN / TN) seal-less single-stage pump with fully enclosed canned motor, uncooled, coolable or heatable. ATEX-compliant version available.

Applications:

For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries.

PumpDrive, Frequency inverter

HT (Nikkiso)



DN	32 – 300
Q [m³/h]	max. 800
H [m]	max. 200
p [bar]	max. 40
T [°C]	max. +400

Description:

Horizontal (HT) or vertical (BT / TT) seal-less single-stage pump with fully enclosed canned motor, coolable. ATEX-compliant version available.

Applications:

For pumping aggressive, solids-laden, polymerising, flammable, explosive, toxic, volatile or valuable liquids and thermal oils in the chemical and petrochemical industries.

PumpDrive, Frequency inverter

HK (Nikkiso)



DN	25 – 40
Q [m³/h]	max. 10
H [m]	max. 300
p [bar]	max. 40
T [°C]	max. +150
n [rpm]	max. 8400

Description:

Horizontal seal-less pump with fully enclosed canned motor, two-stage design in tandem arrangement. ATEX-compliant version available.

Applications:

For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries. For low flow rates, high heads and low NPSHR.

PumpDrive, Frequency inverter

VN (Nikkiso-)



DN	40 – 100
Q [m³/h]	max. 140
H [m]	max. 450
p [bar]	max. 40
T [°C]	max. +180

Description:
Horizontal seal-less pump with fully enclosed canned motor, multistage. ATEX-compliant version available.

Applications:
For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries. For high pump heads.

■ PumpDrive, Frequency inverter

DN (Nikkiso)



DN	32 – 50
Q [m³/h]	max. 40
H [m]	max. 60
p [bar]	max. 40
T [°C]	max. +180

Description:
Horizontal seal-less pump with fully enclosed canned motor, single-stage, self-priming. ATEX-compliant version available.

Applications:
For pumping aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industries. Self-priming pump for draining tanks and unloading tank vehicles.

■ PumpDrive, Frequency inverter

Process pumps

RPH



DN	25 – 400
Q [m³/h]	max. 4150
H [m]	max. 270
p [bar]	max. 110
T [°C]	-70 to +450

Data for 50 Hz operation
Also available for 60 Hz

Description:
Horizontal radially split volute casing pump in back pull-out design, to API 610, ISO 13709 (heavy-duty), type OH2, with radial impeller, single-entry, single-stage, centreline pump feet; with inducer, if required. ATEX-compliant version available.

Applications:
Refineries, petrochemical and chemical industries, power stations, offshore and onshore processes.

RPHb



DN	80 – 200
Q [m³/h]	max. 730
H [m]	max. 450
p [bar]	max. 100
T [°C]	-80 to +450

Data for 50 Hz operation
Also available for 60 Hz

Description:
Horizontal radially split volute casing pump in back pull-out design, to API 610, ISO 13709 (heavy-duty), type BB2, with radial impeller, single-entry, single-stage, back-to-back impeller arrangement, centreline pump feet.

Applications:
Refineries, petrochemical and chemical industries, offshore and onshore processes.

RPH-V



DN2 / DN3	25 – 80 / 40 – 150
Q [m³/h]	max. 80
H [m]	max. 164
p [bar]	max. 51
T [°C]	-30 to +230

Data for 50 Hz operation
Also available for 60 Hz

Description:
Vertical radially split volute casing pump to API 610 and ISO 13709 (heavy-duty), type VS4, with radial impeller, single-entry, single-stage.

Applications:
Refineries, petrochemical and chemical industries, offshore and onshore processes.

RPHmdp



DN	25 – 100
Q [m³/h]	max. 300
H [m]	max. 270
p [bar]	max. 51
T [°C]	-40 to +300

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal radially split volute casing pump in back pull-out design to API 685 (heavy-duty), with magnetic drive, single-stage, single-entry, with radial impeller, centreline pump feet; with inducer, if required. ATEX-compliant version available.

Applications:

Refineries, petrochemical and chemical industries, power stations.

CTN



DN	25–250 / 250–400
Q [m³/h]	max. 950
H [m]	max. 115
p [bar]	max. 16
T [°C]	max. +300

Data for 50 Hz operation
Available for 50 Hz and 60 Hz

Description:

Radially split vertical shaft submersible pump with double volute casing for wet and dry installation, with radial impeller, single-entry, single-stage or double-stage; heatable model available. ATEX-compliant version available.

Applications:

For pumping chemically aggressive liquids, also slightly contaminated or with a low solids content, in the chemical and petrochemical industries.

API series (Nikkiso-KSB)



Rp	1½ – 6
Q [m³/h]	max. 360
H [m]	max. 220
p [bar]	max. 40
T [°C]	max. +450

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal or vertical canned motor pump to API 685, single-stage, with centreline pump feet; with inducer, if required.

Applications:

HNP: for clean liquids; HTP: for hot fluids; HSP / HMP: for contaminated or polymerising fluids; HRP: for liquids with a steep vapour pressure curve such as liquefied gases.

CHTR



DN	50 – 250
Q [m³/h]	max. 1450
H [m]	max. 4000
p [bar]	max. 400
T [°C]	max. +450
n [rpm]	max. 7000

Data for 50 Hz operation
Also available for 60 Hz
Higher ratings possible upon request.

Description:

Horizontal high-pressure barrel-type pumps with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN, API 610 and ANSI.

Applications:

Refineries, petrochemical industry, steam generation, seawater injection in crude oil production (onshore and offshore).

CINCP / CINCN



DN	32 – 200
Q [m³/h]	max. 780
H [m]	max. 105
p [bar]	max. 10
T [°C]	-10 to +100
n [rpm]	max. 3000

Data for 50 Hz operation
Also suitable for 60 Hz operation

Description:

Vertical immersion pump in cantilever design for wet or dry installation. Semi-open impeller, pump shaft without guide bearings, supported by ball bearings in the upper section. Supplied with discharge pipe extending above the baseplate (CINCP) or without discharge pipe (CINCN). ATEX-compliant version available.

Applications:

Chemical and petrochemical industries, raw materials extraction and waste water management.

INVCP / INVCN



DN	32 – 300
Q [m³/h]	max. 1600
H [m]	max. 116
p [bar]	max. 10
T [°C]	-10 to +100
n [rpm]	max. 3000

Data for 50 Hz operation
Also suitable for 60 Hz operation

Description:

Vertical immersion pump for wet or dry installation, available with closed or semi-open impeller. Supplied with discharge pipe extending above the baseplate (INVCP) or without discharge pipe (INVCN). ATEX-compliant version available.

Applications:

For pumping chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.

RWCP / RWCN



DN	50 – 200
Q [m³/h]	max. 700
H [m]	max. 100
p [bar]	max. 16
T [°C]	-10 to +100
n [rpm]	max. 3000

Data for 50 Hz operation
Also suitable for 60 Hz operation

Description:

Process pump with free-flow impeller, semi-open or two-channel or three-channel impeller. Shaft sealed by mechanical seal or gland packing in accordance with various API pipework plans. Oil-lubricated bearings. ATEX-compliant version available.

Applications:

Refineries, chemical and petrochemical industries, steel works, descaling units, raw materials extraction, waste water management.

WKTR



DN	40 – 150
Q [m³/h]	max. 400
H [m]	max. 500
p [bar]	max. 51
T [°C]	max. +200
n [rpm]	max. 3000

Data for 50 Hz operation
Also available for 60 Hz

Description:

Vertical can-type ring-section pump. Type VS6 to API 610 and DIN ISO 13709, multistage, first-stage impeller designed as suction impeller, radial impellers. ATEX-compliant version available.

Applications:

For pumping condensate and other NPSH-critical products in industrial plants, particularly in refineries and petrochemical plants.

Rainwater harvesting systems

Hya-Rain / Hya-Rain N



Rp	1
Q [m³/h]	max. 4
H [m]	max. 43
p [bar]	max. 6
T [°C]	max. +35

Data for 50 Hz operation

Description:

Ready-to-connect package rainwater harvesting system in protective housing with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control. Hya-Rain N version with analog level measurement in rainwater storage tank and integrated functional check run.

Applications:

Rainwater and service water harvesting, irrigation and spray irrigation systems.

Hya-Rain Eco



Rp	1
Q [m³/h]	max. 4
H [m]	max. 43
p [bar]	max. 6
T [°C]	max. +35

Data for 50 Hz operation

Description:

Basic ready-to-connect package rainwater harvesting system with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control.

Applications:

Rainwater and service water harvesting, irrigation and spray irrigation systems.

Domestic water supply / swimming pool pumps

Multi Eco



Rp	1 – 1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 10
T [°C]	max. +50
n [rpm]	max. 2800

Description:

Multistage self-priming centrifugal pump in close-coupled design.

Applications:

Single- or two-family houses, agricultural facilities, spray irrigation, irrigation and washing plants, water supply and rainwater harvesting systems.

● Cervomatic, Controlmatic

Multi Eco-Pro



Rp	1 – 1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 10
T [°C]	max. +50
n [rpm]	max. 2800

Data for 50 Hz operation

Description:

Multistage self-priming centrifugal pump in close-coupled design, with power cable, plug and Controlmatic E automatic control unit starting and stopping the pump in line with consumer demand and protecting it against dry running. Automated with automatic control unit.

Applications:

Single- or two-family houses, agricultural facilities, spray irrigation, irrigation and washing plants, water supply and rainwater harvesting systems.

Set 100



DN	100
Q [m³/h]	max. 6
H [m]	max. 90
T [°C]	max. +30
Data for 50 Hz operation	

Description:
Multistage centrifugal pump in shroud design made of stainless steel and plastic (S 100D) or in ring-section design made of stainless steel (UPA 100C) for well diameters of 100 mm and above, complete with drive, control system and lead in box.

Applications:
Domestic water supply and general water supply, irrigation and spray irrigation, drawdown of groundwater levels, fire protection, cooling circuits, fountains, pressure booster and air-conditioning systems.

Multi Eco-Top



Rp	1 – 1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 7
T [°C]	max. +50
n [rpm]	max. 2800
Data for 50 Hz operation	

Description:
Multistage self-priming centrifugal pump in close-coupled design incl. accumulator with replaceable membrane in drinking water quality, total volume 20 or 50 litres, pressure switch for automatic pump operation and 1.5-metre power cable with plug.

Applications:
Single- or two-family houses, agricultural facilities, spray irrigation, irrigation and washing plants, water supply and rainwater harvesting systems.

Movitec VME



Rp	1½
Q [m³/h]	max. 9
H [m]	max. 48
p [bar]	max. 16
T [°C]	max. +60
n [rpm]	max. 2900

Description:
Multistage vertical (horizontal installation upon request) high-pressure centrifugal pump with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design).

Applications:
Single- or two-family houses, agricultural facilities, spray irrigation, irrigation and washing plants, water supply and rainwater harvesting systems. Pressure boosting, hot water and cooling water recirculation and fire-fighting systems.



PumpMeter

Ixo N



Rp	1¼
Q [m³/h]	max. 8
H [m]	max. 65
T [°C]	max. +35
n [rpm]	max. 2900

Description:
Multistage close-coupled centrifugal pump for fully or partly submerged operation (min. immersion depth 0.1 m), with low-level inlet, suction strainer with a max. mesh width of 2.0 mm.

Applications:
Water supply systems, spray irrigation, irrigation and washing plants, rainwater harvesting systems and water extraction from wells, reservoirs and rainwater storage tanks.

Switchgear, Cervomatic

Ixo-Pro



Rp	1
Q [m³/h]	max. 3.9
H [m]	max. 60
T [°C]	max. +35
Data for 50 Hz operation	

Description:
Multistage submersible borehole pump with integrated pressure switch, flow sensor and lift check valve. Electronic dry running protection with four consecutive start-up attempts; integrated capacitor. 15-metre H07 RNF power cable with plug included.

Applications:
Rainwater harvesting, pressure boosting, water extraction and irrigation.

Filtra N



Rp	2
Q [m³/h]	max. 36
H [m]	max. 21
p [bar]	max. 2.5
T [°C]	max. +35
n [rpm]	max. 2800

Data for 50 Hz operation

Description:

Single-stage self-priming centrifugal pump in close-coupled design.

Applications:

For pumping clean or slightly contaminated water, swimming pool water with a max. chlorine content of 0.3 %; ozonised swimming pool water with a max. salt content of 7 %.

Pressure booster systems

Hya-Solo EV



Rp	1¼
Q [m³/h]	max. 6
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with one vertical high-pressure pump and continuously variable speed adjustment. Design and function as per DIN 1988.

Applications:

Residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

Hya-Solo D



Rp / DN	1 / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package single-pump system with 8-litre membrane-type accumulator. The system is started and stopped as a function of pressure.

Applications:

Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.

Hya-Solo DSV



Rp / DN	1 / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic variable speed package single-pump system with magnetless high-efficiency SuPremE-IE4 motor (to IEC/CD 60034-30 Ed. 2) with PumpDrive. The system is started as a function of pressure and stopped as a function of flow.

Applications:

Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.

Hya-Solo D FL



Rp / DN	1 / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package single-pump system. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

Applications:

Pressure boosting in fire protection systems to DIN 14462.

Hya-Duo D FL



Rp / DN	2 / 150
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package dual-pump system consisting of one duty system and one stand-by system to ensure system redundancy. Design and function as per DIN 14462.

Applications:

Pressure boosting in fire protection systems to DIN 14462.

Hya-Solo D FL Compact



DN	50 – 80
Q [m³/h]	max. 48
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic ready-to-connect break tank package booster set for fire fighting, comprising a single-pump system and break tank. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

Applications:

Fire-fighting applications to DIN 14462.

Hya-Duo D FL Compact



DN	50 – 80
Q [m³/h]	max. 48
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic, ready-to-connect break tank package booster set for fire fighting, comprising a dual-pump system and break tank. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

Applications:

Fire-fighting applications to DIN 14462.

Hya-Eco VP



Rp / DN	2 / 80
Q [m³/h]	max. 70
H [m]	max. 120
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system, with either 2 or 3 vertical high-pressure pumps and continuously variable speed adjustment of all pumps for fully electronic control of the required supply pressure, with two standard volt-free changeover contacts for fault indication. Design and function as per DIN 1988. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

<http://shop.ksb.com/catalog/k0/en/product/ES000596>

Hyamat K



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system, with 2 to 6 vertical high-pressure pumps and fully electronic control to ensure the required supply pressure, with volt-free changeover contact for general fault indication and live-zero monitoring of the connected sensors, design and function to DIN 1988. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

Hyamat V



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of one pump; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.



Hyamat SVP



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with SuPremE-IE4 motor and 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of all pumps by PumpDrive; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.



Superbloc SBC.B



Rp	1½
Q [m³/h]	max. 12
H [m]	max. 95
p [bar]	max. 10
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system, with one pump and 200-litre membrane-type accumulator. Pressure-controlled starting and stopping.

Applications:

Water supply in small multiple dwelling buildings, spray irrigation, rainwater harvesting.



Surpress Eco SE.2.B



Rp / DN	2 / 80
Q [m³/h]	max. 70
H [m]	max. 100
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system, with either 2 or 3 vertical high-pressure pumps, with fully electronic control to ensure the required supply pressure, with standard volt-free changeover contact for general fault indication and live-zero monitoring of the connected sensors. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.



Surpress Eco SE.2.B VP



Rp / DN	2 / 80
Q [m³/h]	max. 70
H [m]	max. 120
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with either 2 or 3 vertical high-pressure pumps. Continuously variable speed adjustment of all pumps for fully electronic control of the required supply pressure, with two standard volt-free changeover contacts for fault indication. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.



Surpresschrom SIC.2



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system, with 2 to 6 vertical high-pressure pumps, with fully electronic control system ensuring the required supply pressure, with standard volt-free changeover contact for general fault indication and live-zero monitoring of the connected sensors. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

Surpresschrom SIC.2 V



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps. Continuously variable speed adjustment of one pump with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

Surpresschrom SIC.2 SVP



Rp / DN	2 / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps. Continuously variable speed adjustment of all pumps with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

Surpressbloc SB



DN	100 – 200
Q [m³/h]	max. 640
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with two to four vertical high-pressure pumps and fully electronic control system ensuring the required supply. Automated with PLC.

Applications:

Industry and other applications. For handling service water and cooling water not chemically or mechanically aggressive to the pump materials.

Surpress Feu SFE



Rp	2½
Q [m³/h]	max. 40
H [m]	max. 76
p [bar]	max. 10
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic pressure booster system with two horizontal close-coupled pumps (one pump on stand-by duty). Design complies with APSAD regulation R5. Pressure-controlled starting and stopping. Automated with BoosterControl.

Applications:

Water supply and pressure boosting for wall hydrants, fire protection.

Surpress SP



Rp	1½ – 2
Q [m³/h]	max. 36
H [m]	max. 70
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with either two or three vertical high-pressure pumps and fully electronic control unit ensuring the required supply pressure at the consumer installations. Design and functions to EN 806-2.

Applications:

Residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.



Surpress SP VP



Rp	1½ – 2
Q [m³/h]	max. 36
H [m]	max. 70
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with either two or three vertical high-pressure pumps. Continuously variable speed adjustment of all pumps for fully electronic control of the required supply pressure at the consumer installations. Design and function to DIN EN 806-2 and DIN 1988. Automated with BoosterControl.

Applications:

Residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.



Drainage pumps / waste water pumps

Ama-Drainer N 301 – 358



Rp	1¼ – 1½
Q [m³/h]	max. 16.5
H [m]	max. 12
T [°C]	max. +50

Data for 50 Hz operation
Also available for 60 Hz

Description:

Vertical single-stage fully floodable submersible motor pump in close-coupled design, IP68, with or without level control, max. immersion depth: 2 m.

Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Ama-Drainer 4../5..



Rp	1½ – 2
Q [m³/h]	max. 50
H [m]	max. 24
T [°C]	max. +40

Data for 50 Hz operation
Also available for 60 Hz

Description:

Vertical single-stage fully floodable submersible motor pumps in close-coupled design, IP68, with or without level control, max. immersion depth: 7 m.

Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Ama-Drainer 80, 100



Rp / DN	2½ / 100
Q [m³/h]	max. 130
H [m]	max. 26
T [°C]	max. +50

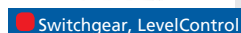
Data for 50 Hz operation
Also available for 60 Hz

Description:

Vertical single-stage fully floodable submersible motor pump in close-coupled design, IP68, with or without level control, max. immersion depth: 10 m.

Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Ama-Porter F / S



DN	50 – 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40
Data for 50 Hz operation	

Description:
Vertical single-stage fully floodable submersible waste water pump in close-coupled design (grey cast iron variant), non-explosion-proof.

Applications:
Handling waste water, especially waste water containing long fibres and solid substances, fluids containing gas/air, removing waste water from flooded rooms or surfaces.

● Switchgear, LevelControl

Rotex



Rp	1¼ – 2
Q [m³/h]	max. 24
H [m]	max. 14
Inst. depth [m]	max. 1.7
T [°C]	max. +90
n [rpm]	max. 2900
Data for 50 Hz operation	

Description:
Vertical single-stage centrifugal pump with discharge to the top and parallel with the pump shaft, pump base designed to act as suction strainer. Pump and motor are rigidly connected by a support column. Supplied ready to be plugged in, with 1.5-metre power cable and level switch.

Applications:
Automatic drainage of buildings, pits and tanks, lowering of surface water levels and drainage.

MK / MKY



Rp / DN	2 / 50
Q [m³/h]	max. 36
H [m]	max. 19
Inst. depth [m]	max. 2.8
T [°C]	max. +200
n [rpm]	max. 3500
Data for 50 Hz operation	

Description:
Vertical submersible pump with three-channel impeller, volute casing designed as inlet strainer.

Applications:
For pumping condensate and heat transfer liquids below boiling point, condensate return systems, primary and secondary heating circuits, for direct installation in heating tanks or heat exchangers in the secondary circuits of heat transfer systems (MKY).

● Switchgear, LevelControl

Lifting units / pump stations

AmaDS³



Q [m³/h]	max. 200
H [m]	max. 85
T [°C]	depending on pump
Higher ratings possible upon request.	

Description:
Waste water pump station with solids separation system. Indirect hydraulic transport of waste water, solids separators arranged upstream of the pumps, for maximum economic efficiency, operating reliability and ease of servicing.

Applications:
Municipal and industrial waste water transport. Applications with special drainage requirements, e.g. hotels, hospitals, campgrounds, etc.

● LevelControl

Kondensat-Lift



Q [m³/h]	max. 0.35
H [m]	max. 4.5
T [°C]	max. +50
Data for 50 Hz operation	

Description:
Automatic condensate lifting unit.

Applications:
Fully automatic pumping of condensate generated below the flood level by condensing boilers, air-conditioning and cooling systems.

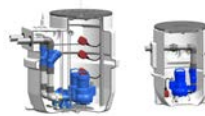
Ama-Drainer-Box Mini

	DN	40	Description: Reliable and compact waste water lifting unit in a modern design with activated carbon filter meeting hygiene requirements and with shower connection as standard. To EN 12050-2. Applications: Automatic drainage of washbasins, showers, washing machines, dishwashers, etc. Use mini-Compacta sewage lifting unit for handling sewage from urinals and toilets!
	Q [m³/h]	max. 10	
	H [m]	max. 6.5	
	T [°C]	max. +35	
	Data for 50 Hz operation		

Ama-Drainer-Box

	DN	40 – 50	Description: Stable above-floor plastic collecting tank or impact-resistant underfloor plastic collecting tank, with floor drain and odour trap, both with Ama-Drainer submersible motor pump starting and stopping automatically and swing check valve. Applications: Washbasins, showers, washing machines, garage driveways, basements and rooms at risk of flooding, etc.
	Q [m³/h]	max. 46	
	H [m]	max. 24	
	T [°C]	max. +40	
	Data for 50 Hz operation		

Evamatic-Box N

	DN	50 – 65	Description: Floodable lifting unit for domestic waste water, equipped with either one or two pumps of type Ama-Porter F (free-flow impeller) or Ama-Porter S (cutter). Applications: Disposal of domestic and municipal waste water occurring below the flood level.
	Q [m³/h]	max. 40	
	H [m]	max. 21	
	T [°C]	max. +40	
	Data for 50 Hz operation		

Eva-Clean

	Rp	1¼	Description: Single-piece water-tight collecting tank made of PE-HD, equipped with Ama-Drainer N submersible motor pump with integrated float switch. Applications: Disposal of domestic waste water from septic tanks and/or sand filters. For pumping pre-screened domestic waste water.
	Q [m³/h]	max. 8	
	H [m]	max. 7	
	T [°C]	max. +50	
	Data for 50 Hz operation		

mini-Compacta

	DN	32 – 100	Description: Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of domestic sewage and faeces in building sections below the flood level. Applications: Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores, hospitals, hotels, restaurants or schools.
	Q [m³/h]	max. 36	
	H [m]	max. 25	
	T [°C]	max. +65	
	Data for 50 Hz operation		

Compacta



DN	80 – 100
Q [m³/h]	max. 140
H [m]	max. 24
T [°C]	max. +65
Data for 50 Hz operation	

Description:
Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of waste water and faeces in buildings and building sections below the flood level.

Applications:
Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, other public buildings, industrial facilities, underground train stations or for joint sewage disposal from rows of houses.

CK 800 Pump Station



DN	32 – 50
Q [m³/h]	max. 22
H [m]	max. 49
T [°C]	max. +40
Data for 50 Hz operation	

Description:
Ready-to-connect package single-pump or dual-pump station with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N S (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752 / EN 476.

Applications:
Building and property drainage, waste water disposal, property renovation, joint sewage disposal for multiple residential units, pumped drainage.

CK 1000 Pump Station



DN	50 – 65
Q [m³/h]	max. 50
H [m]	max. 39
T [°C]	max. +40
Data for 50 Hz operation	

Description:
Ready-to-connect package single-pump or dual-pump station with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752 / EN 476.

Applications:
Building and property drainage, waste water disposal, property renovation, joint sewage disposal for multiple residential units, pumped drainage.

Ama-Porter CK Pump Station



DN	50 – 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40
Data for 50 Hz operation	

Description:
Ready-to-connect package single-pump or dual-pump station with PE-LLD (polyethylene) collecting tank for buried installation. With either one or two non-explosion-proof Ama-Porter submersible waste water pumps. Tank design to DIN 1986-100 and EN 752 / EN 476.

Applications:
Building and property drainage, waste water disposal, property renovation, joint sewage disposal for multiple residential units, pumped drainage.

SRP



DN	50 – 150
Q [m³/h]	max. 500
H [m]	max. 68
T [°C]	max. +40

Description:
Ready-to-connect package single-pump or dual-pump station with fibreglass collecting tank for buried installation.

Applications:
Property renovation, disposal of domestic, municipal and industrial waste water, joint sewage disposal for multiple residential units.

Submersible motor pumps

Amarex N S32



DN	32
Q [m³/h]	max. 16.5
H [m]	max. 29.5
T [°C]	max. +40
Data for 50 Hz operation	

Description:

Vertical single-stage submersible motor pump for wet installation, stationary or transportable version. Amarex N pumps are floodable, single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

Applications:

Amarex N S 32-160 submersible motor pumps with cutter are used for pumping waste water in intermittent operation, domestic waste water, raw water, waste water containing faeces.

● Switchgear, LevelControl

Amarex N



DN	50 – 100
Q [m³/h]	max. 190
H [m]	max. 49
T [°C]	max. +60
Data for 50 Hz operation	
Also available for 60 Hz	

Description:

Vertical single-stage submersible motor pump for wet installation, stationary or transportable version. Amarex N pumps are floodable, single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

Applications:

For pumping waste water, especially untreated waste water containing long fibres and solid substances, fluids containing gas or air, and raw, activated and digested sludge; for dewatering and water extraction, drainage of rooms and areas at risk of flooding.

● Switchgear, LevelControl

Amarex KRT



DN	40 – 700
Q [m³/h]	max. 10080
H [m]	max. 120
T [°C]	max. +60
n [rpm]	max. 2900
Data for 50 Hz operation	
Also available for 60 Hz	

Description:

Vertical single-stage submersible motor pump in close-coupled design, with various impeller types, for wet installation, stationary or transportable version. ATEX-compliant version available.

Applications:

For pumping abrasive or aggressive waste water in water and waste water management, seawater desalination and industry, especially untreated waste water containing long fibres and solid substances, liquids containing gas or air, and raw, activated and digested sludge.



● Amacontrol, LevelControl

Amarex KRT, with jacket cooling



DN	100 – 700
Q [m³/h]	max. 10080
H [m]	max. 120
p [bar]	max. 10
T [°C]	max. +40
n [rpm]	max. 1450
Data for 50 Hz operation	
Also available for 60 Hz	

Description:

Vertical single-stage submersible motor pump in close-coupled design, with various impeller types, for wet or dry installation.

Applications:

For pumping waste water in waste water management and industry, especially untreated waste water containing long fibres and solid substances, fluids containing gas or air, and raw, activated and digested sludge.



● Amacontrol, LevelControl

Amarex KRT, with convection cooling



DN	80 – 200
Q [m³/h]	max. 550
H [m]	max. 25
T [°C]	max. +40
n [rpm]	max. 1450
Data for 50 Hz operation	
Also available for 60 Hz	

Description:

Horizontal or vertical single-stage submersible motor pump in close-coupled design, with various impeller types, for wet or dry installation, stationary or transportable version, with energy-saving motor.

Applications:

For pumping waste water in waste water management and industry, especially untreated waste water containing long fibres and solid substances, fluids containing gas or air, and raw, activated and digested sludge.



● Amacontrol, LevelControl

Submersible pumps in discharge tubes

Amacon K



DN	700 – 1400
Q [m³/h]	max. 7200
H [m]	max. 30
T [°C]	max. +40
n [rpm]	max. 980

Data for 50 Hz operation
Also available for 60 Hz

Description:

Wet-installed submersible motor pump for installation in discharge tubes, with channel impeller, single-stage, single-entry. ATEX-compliant version available.

Applications:

For handling pre-cleaned chemically neutral waste water, industrial effluent, sewage, fluids not containing any stringy substances, pre-treated by screens and overflow sills; as waste water, mixed sewage and activated sludge pumps in waste water treatment plants, irrigation and drainage pumping stations.

 Amacontrol

Amacon P



DN	500 – 1500
Q [m³/h]	max. 25200
H [m]	max. 12
T [°C]	max. +40
n [rpm]	max. 1450

Data for 50 Hz operation
Also available for 60 Hz

Description:

Wet-installed submersible motor pump for installation in discharge tubes, with axial propeller in ECB design, single-stage, single-entry. ATEX-compliant version available.

Applications:

Irrigation and drainage pumping stations, for stormwater transport in stormwater pumping stations, raw and clean water transport in water and waste water treatment plants, cooling water transport in power stations and industrial plants, industrial water supply, water pollution and flood control, aquaculture.

 Amacontrol

Amacon S



DN	650 – 1300
Q [m³/h]	max. 10800
H [m]	max. 40
T [°C]	max. +30
n [rpm]	max. 1450

Data for 50 Hz operation
Also available for 60 Hz

Description:

Wet-installed submersible motor pump for installation in discharge tubes, with mixed flow impeller, single-stage. ATEX-compliant version available.

Applications:

For pumping water not containing stringy material in irrigation and drainage pumping stations, general water supply systems, water pollution and flood control.

 Amacontrol

Mixers / agitators / tank cleaning units

Amamix



Propeller Ø [mm]	200 – 600
Inst. depth [m]	max. 30
T [°C]	max. +40
n [rpm]	max. 1400

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, direct drive. ATEX-compliant version available.

Applications:

For handling municipal and industrial waste water and sludges in environmental engineering (also in biogas plants).

Amaprop



Propeller Ø [mm]	1000 – 2500
Inst. depth [m]	max. 30
T [°C]	max. +40
n [rpm]	max. 109

Description:

Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, with coaxial spur gear drive. ATEX-compliant version available.

Applications:

Environmental engineering, particularly for handling municipal and industrial waste water and sludges. For circulating, keeping in suspension and inducing flow in nitrification and denitrification tanks, activated sludge tanks, mixing tanks, final storage tanks, biological phosphate elimination tanks, flocculation tanks and in biogas applications.

Amajet



DN	100 – 150
Q [m³/h]	max. 195
T [°C]	max. +40
n [rpm]	max. 1450

Data for 50 Hz operation
Also available for 60 Hz

Description:

Stationary or portable unit with horizontally or vertically mounted submersible propulsive jet pump with non-clogging free-flow impeller. Motor ratings of 5.5 to 27 kW. Available variants: Amajet, SewerAmajet, SwingAmajet, MultiAmajet.

Applications:

For cleaning stormwater tanks and storage sewers.

Amaline



DN	300 – 800
Q [m³/h]	max. 5400
H [m]	max. 2
T [°C]	max. +40
n [rpm]	max. 960

Description:

Wet-installed horizontal propeller pump with submersible motor, equipped with direct drive or spur gear, ECB propeller with three rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. ATEX-compliant version available.

Applications:

For recirculating activated sludge in waste water treatment systems.

Pumps for solids-laden fluids

Sewatec



DN	50 – 700
Q [m³/h]	max. 10000
H [m]	max. 115
p [bar]	max. 10
T [°C]	max. +70
n [rpm]	max. 2900

Description:

Volute casing pump for horizontal or vertical installation, with free-flow (F), single-channel (E), multi-channel (K) or diagonal single-vane impeller (D), discharge flange to DIN and ANSI standards. ATEX-compliant version available.

Applications:

For pumping untreated sewage and waste water in waste water management and industry.

PumpDrive, LevelControl

Sewabloc



DN	50 – 200
Q [m³/h]	max. 1000
H [m]	max. 80
p [bar]	max. 10
T [°C]	max. +70
n [rpm]	max. 2900

Description:

Close-coupled volute casing pump for horizontal or vertical installation, with free-flow (F), multi-channel (K) or diagonal single-vane impeller (D), discharge flange to DIN and ANSI standards. ATEX-compliant version available.

Applications:

For pumping untreated sewage and waste water in waste water management and industry.

PumpDrive, LevelControl

KWP / KWP-Bloc



DN	40 – 900
Q [m³/h]	max. 15000
H [m]	max. 100
p [bar]	max. 10
T [°C]	-40 to +140
n [rpm]	max. 2900

Description:

Horizontal radially split volute casing pump in close-coupled or back pull-out design, single-stage, single-entry, available with various impeller types: channel impeller, open multi-channel impeller and free-flow impeller. ATEX-compliant version available.

Applications:

For pumping pre-treated sewage, waste water, slurries without stringy material and pulps up to 5 % bone dry with a maximum density of 2000 kg/m³.

PumpDrive

Slurry pumps

WBC

	Q [m³/h]	max. 13600	Description: Patented design with state-of-the-art hydraulic and wear technologies for high-pressure applications. The pump casing is designed to withstand maximum stresses, e.g. during pressure surges. Applications: Ideal for the single-stage or multistage transport of ore and tailings and for dredging.
	H [m]	max. 80	
	p [bar]	max. 40	
	T [°C]	max. +120	

LSA-S

	Q [m³/h]	max. 14000	Description: Premium design white cast iron pump for long service life handling severe slurries. The maintenance-friendly single-wall construction and heavy section white cast iron wetted end combined with the cartridge bearing assembly provides maximum reliability and ease of maintenance. Applications: Ore and tailings transport, cyclone feed, dredging (dry-installed or submerged operation) and industrial processes.
	H [m]	max. 90	
	p [bar]	max. 16	
	T [°C]	max. +120	

LCC-M

	Q [m³/h]	max. 3405	Description: The wetted pump end (casing, impeller and suction plate / liner) is made of white cast iron. Design optimised to permit easy dismantling and reassembly for maintenance and inspections. Applications: Reliable pump for high heads and moderately corrosive slurries. Used in mine dewatering, ash and tailings transport and dredging.
	H [m]	max. 90	
	p [bar]	max. 16	
	T [°C]	max. +120	

LCC-R

	Q [m³/h]	max. 2455	Description: Interchangeable rubber-lined or part-metal design allows adaptation of existing pumps to new applications by simply exchanging the wetted pump end. Applications: The pumps are suitable for moderate heads, fine particles and highly corrosive slurries.
	H [m]	max. 42	
	p [bar]	max. 16	
	T [°C]	max. +65	

TBC

	Q [m³/h]	max. 18200	Description: Horizontal high-pressure end-suction centrifugal pump offering maximum resistance to wear and ease of maintenance. The conventional single-wall design transfers stress loads from the wear plates to the casing covers in high-pressure applications. Pump components made of highly wear-resistant white cast iron. Applications: High-head high-flow hydrotransport of tailings, dredged material, pipeline booster stations and other severe duties.
	H [m]	max. 90	
	p [bar]	max. 55	
	T [°C]	max. +120	

LCV

	Q [m³/h] H [m] p [bar] T [°C]	max. 2045 max. 38 max. 14 max. +120	Description: Rugged vertical shaft submersible pump with casing, impeller and suction plate / liner made of white cast iron, bearing assembly located out of product. Replaceable wetted parts made of white cast iron or natural rubber. Applications: Particularly suitable for use in industrial processes and for transporting tailings in mines and pits.
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FGD

	Q [m³/h] H [m] p [bar] T [°C]	max. 22700 max. 45 max. 17 max. +120	Description: High-flow / low-head white cast iron pump with single-wall casing and high-efficiency impeller. Single-piece suction cover with integrated mounting plate. Applications: Flue gas desulphurisation systems and process circuits.
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Mega

	Q [m³/h] H [m] p [bar] T [°C]	max. 45 max. 30 max. 24 max. +120	Description: Horizontal end-suction volute casing pump with open three-vane impeller for handling solids-laden liquids. Applications: Low-volume hydrotransport of solids-laden liquids and abrasive slurries.
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MHD

	Q [m³/h] H [m] p [bar] T [°C]	max. 32000 max. 80 max. 28 max. +120	Description: Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Pump components made of white cast iron. Applications: Ideal for pipeline pressure booster stations and severe mining duties. Highly suitable for loading and unloading duties on (cutter) suction dredgers.
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LHD

	Q [m³/h] H [m] p [bar] T [°C]	max. 21600 max. 65 max. 17 max. +120	Description: Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Used in low-pressure applications. Pump components made of white cast iron. Applications: Ideal for handling sand and gravel, on dredgers for land reclamation and as booster pumps.
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MDX

	Q [m³/h]	max. 14000	Description: Pump designed with the latest technology from GIW. Superior wear properties and extremely long service life handling aggressive slurries. Applications: Designed for SAG and ball mill discharge duties, cyclone feed, screen feed and other ore mining and treatment processes.
	H [m]	max. 90	
	p [bar]	max. 16	
	T [°C]	max. +120	

ZW

	Q [m³/h]	max. 400	Description: Rugged vertical shaft submersible pump with casing, impeller and suction cover made of white cast iron, top and bottom impeller inlet. Bearings not exposed to fluid handled. Replaceable wetted components. Applications: Particularly suitable for pumping abrasive slurries, dewatering, floor clean-up and process applications.
	H [m]	max. 35	
	p [bar]	max. 10	
	T [°C]	max. +120	

HVF

	Q [m³/h]	max. 8175	Description: The pump provides continuous operation without shutdown or operator intervention. The new hydraulic design removes air from the impeller eye while the pump is running, and the pump can be retrofitted into any existing operation. Applications: For use in all froth pumping applications in the mineral processing and industrial minerals industries.
	H [m]	max. 35	
	p [bar]	max. 10	
	T [°C]	max. +120	

Self-priming pumps

Etaprime L



DN	25 – 125
Q [m³/h]	max. 180
H [m]	max. 85
p [bar]	max. 10
T [°C]	max. +90

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal self-priming volute casing pump in back pull-out design, single-stage, with open multi-vane impeller, long-coupled. ATEX-compliant version available.

Applications:

For pumping clean, contaminated or aggressive liquids not containing abrasive or solid substances.

Etaprime B



DN	25 – 100
Q [m³/h]	max. 130
H [m]	max. 70
p [bar]	max. 10
T [°C]	-30 to +90

Data for 50 Hz operation
Also available for 60 Hz

Description:

Horizontal self-priming volute casing pump, single-stage, with open multi-vane impeller, close-coupled, pump shaft and motor shaft rigidly connected (BN). ATEX-compliant version available.

Applications:

For pumping clean, contaminated or aggressive liquids not containing abrasive or solid substances.

EZ B/L



DN	25 – 50
Q [m³/h]	max. 21
H [m]	max. 160
p [bar]	max. 16
T [°C]	-5 to +80
n [rpm]	max. 1500

Data for 50 Hz operation
Also available for 60 Hz

Description:

Self-priming multistage liquid ring pump in close-coupled (EZ B) or long-coupled (EZ L) design, with mechanical seal.

Applications:

Boiler feed, sanitary hot water, hydrophore systems for fresh or seawater and fresh water pre-heating.

Submersible borehole pumps

S 100D



DN	100
Q [m³/h]	max. 16
H [m]	max. 300
T [°C]	max. +30

Data for 50 Hz operation
Also available for 60 Hz

Description:

Multistage centrifugal pump in shroud design made of stainless steel and plastic for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

Applications:

Domestic water supply, irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster and air-conditioning systems.



Switchgear, Cervomatic

UPA 100C



DN	100
Q [m³/h]	max. 15
H [m]	max. 400
T [°C]	max. +30

Data for 50 Hz operation
Also available for 60 Hz

Description:

Multistage centrifugal pump in ring-section design made of stainless steel for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

Applications:

Domestic water supply, irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster and air-conditioning systems. UPA 100C is also suitable for drinking water applications to ACS.



Switchgear, Cervomatic

UPA 150C



DN	150
Q [m³/h]	max. 79
H [m]	max. 440
T [°C]	max. +50

Description:

All-stainless steel single-stage or multistage centrifugal pump in ring-section design for well diameters of 150 mm (6 inches) and above.

Applications:

For pumping clean or slightly contaminated water, irrigation and drainage, spray irrigation, industrial and municipal water supply, drawdown and maintenance of groundwater levels, fire fighting, supply of drinking, raw and service water, pressure boosting.



PumpDrive

UPA 200, 200B, 250C



DN	200 – 250
Q [m³/h]	max. 330
H [m]	max. 460
T [°C]	max. +50

Description:

Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch.

Applications:

For pumping clean or slightly contaminated water in general water supply, spray irrigation and irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems, emergency water supply, etc.

PumpDrive

UPA 300, 350



DN	300 – 350
Q [m³/h]	max. 840
H [m]	max. 480
T [°C]	max. +50

Description:

Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Mixed flow hydraulic systems with impellers that can be turned down. Optionally available with lift check valve or connection branch.

Applications:

For pumping clean or slightly contaminated water in general water supply, spray irrigation and irrigation, drawdown and maintenance of groundwater levels, mining, fountains and fire-fighting systems, etc.

PumpDrive

UPZ, BSX-BSF



DN	> 350
Q [m³/h]	max. 2200
H [m]	max. 1500
T [°C]	max. +50

Description:
Single-stage or multistage single-entry (BSX-BSF) or double-entry (UPZ) centrifugal pump in ring-section design for vertical or horizontal installation.

Applications:
For pumping clean or slightly contaminated water, for drawdown and maintenance of groundwater levels, in mining.



PumpDrive

Deep-well turbine pumps

BEV



DN	80 – 400
Q [m³/h]	max. 2200
H [m]	max. 350
p [bar]	max. 40
T [°C]	+5 to +75
n [rpm]	max. 3000

Data for 50 Hz operation
Also available for 60 Hz

Description:
Multistage deep-well turbine pump with closed impellers, column section with bearing assembly, shaft sleeve, shaft sealed by gland packing, driven by electric motor or diesel engine. ATEX-compliant version available.

Applications:
For pumping clean water in agriculture, collection and irrigation, public water supply, industry, fire-fighting systems; main lubricating oil pump for diesel engines in shipbuilding (BEV-LO version).

High-pressure pumps

Comeo



Rp / DN	1 – 1¼ / 25 – 32
Q [m³/h]	max. 9
H [m]	max. 55
p [bar]	max. 10
T [°C]	-10 to +60
n [rpm]	max. 2900

Description:

Multistage, horizontal, close-coupled centrifugal pump

Applications:

Water supply, small pressure booster systems, irrigation, cooling

● Frequency inverter

Movitec



Rp / DN	1 – 2 / 25 – 100
Q [m³/h]	max. 113
H [m]	max. 401
p [bar]	max. 40
T [°C]	max. +140
n [rpm]	max. 2900

Description:

Multistage vertical high-pressure centrifugal pump in ring-section design with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design), close-coupled. ATEX-compliant version available.

Applications:

Spray irrigation, irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.



● PumpMeter, PumpDrive, SuPremE

Movitec VCI



Rp / DN	1¼ – 2 / 32 – 50
Q [m³/h]	max. 23.8
H [m]	max. 249
p [bar]	max. 25
T [°C]	max. +120
n [rpm]	max. 2900

Description:

Multistage vertical high-pressure immersion pump for installation on tanks or platforms.

Applications:

Machine tools, industrial machine systems, condensate transport, paint shops.



● PumpDrive, SuPremE

Multitec



DN	32 – 200
Q [m³/h]	max. 850
H [m]	max. 1000
p [bar]	max. 100
T [°C]	-10 to +200
n [rpm]	max. 3500

Description:

Multistage centrifugal pump in ring-section design. Horizontal installation in long-coupled or close-coupled design. Vertical installation in close-coupled design or with universal joint shaft. With either one or two roller bearings. Axial or radial suction nozzle, radial discharge nozzle. Radial suction and discharge nozzles can be turned in steps of 90°. ATEX-compliant and ACS-compliant versions available.

Applications:

Water and drinking water supply systems, industry, pressure booster systems, irrigation systems, power stations, heating, filter, fire-fighting, reverse osmosis and snow-making systems, washing plants, etc.



● PumpMeter, PumpDrive, SuPremE

Axially split pumps

Omega



DN	80 – 350
Q [m³/h]	max. 2880
H [m]	max. 210
p [bar]	max. 25
T [°C]	max. +140
n [rpm]	max. 3500

Data for 50 Hz and 60 Hz operation
Higher ratings possible upon request.

Description:

Single-stage axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, EN or ASME.

Applications:

For pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding, district heating or cooling.



● PumpMeter, PumpDrive

RDLO



DN	350 – 700
Q [m³/h]	max. 10000
H [m]	max. 240
p [bar]	max. 25
T [°C]	max. +140
n [rpm]	max. 1800

Data for 50 Hz and 60 Hz operation
Higher ratings possible upon request.

Description:

Single-stage axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, EN or ASME.

Applications:

For pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding, district heating or cooling.

● PumpMeter, Frequency inverter

RDLP



DN	350 – 1200
Q [m³/h]	max. 18000
H [m]	max. 550
p [bar]	max. 64
T [°C]	max. +80
n [rpm]	max. 1800

Data for 50 Hz and 60 Hz operation
Higher ratings possible upon request.

Description:

Axially split volute casing pump for horizontal installation, with one, two or three stages and double-entry radial impeller, mating flanges to DIN, ISO or ANSI.

Applications:

For pumping water with a low solids content, e.g. in waterworks and long-distance water supply.

● PumpMeter, Frequency inverter

Hygienic pumps

Vitachrom



DN	50 – 125
Q [m³/h]	max. 340
H [m]	max. 100
p [bar]	max. 12
T [°C]	max. +140

Data for 50 Hz operation
Also available for 60 Hz

Description:

Service-friendly non-priming, close-coupled single-stage hygienic pump in back pull-out design. The pump features a semi-open impeller and electropolished surfaces. It is very easy to clean by CIP/SIP thanks to its almost complete lack of dead volume or narrow clearances. Its wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Vitachrom is EHEDG-certified. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.

Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical industries and in the chemical industry.

● PumpDrive, SuPremE

Vitacast



DN	25 – 150
Q [m³/h]	max. 560
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +140

Data for 50 Hz operation
Also available for 60 Hz
Other ratings possible on request

Description:

Service-friendly volute casing pump with standardised motor. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface, excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical industries and in the chemical industry.

 PumpDrive

Vitaprime



DN	40 – 80
Q [m³/h]	max. 55
H [m]	max. 45
p [bar]	max. 10
T [°C]	max. +140

Data for 50 Hz operation
Also available for 60 Hz
Other ratings possible on request

Description:

Service-friendly (self-priming) side channel pump in close-coupled design with a standardised motor. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Hygienic design for the highest requirements of cleanability (CIP/SIP-compatible). All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical industries and in the chemical industry.

 PumpDrive

Vitastage



Q [m³/h]	max. 40
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +140

Data for 50 Hz operation
Also available for 60 Hz
Other ratings possible on request

Description:

Multistage centrifugal pump in close-coupled design for vertical or horizontal installation. All wetted components are made of 1.4401/1.4408 (AISI 316/CF8M) stainless steel. Versatile, robust and especially energy-efficient. CIP/SIP-compatible. All materials comply with FDA standards and EN 1935/2004. Trolley also available among other accessories.

Applications:

Processes with moderate hygienic requirements in the food and beverage industries and in the chemical industry.

 PumpDrive

Vitalobe



DN	25 – 200 (1" – 8")
Q [m³/h]	max. 300
H [m]	max. 200
p [bar]	max. 30
T [°C]	-40 to +200
Viscosity [cP]	max. 200000

Data for 50 Hz operation
Also available for 60 Hz
Other ratings possible on request

Description:

Sturdy rotary lobe pump in hygienic design, bi-directional operation possible, horizontal or vertical orientation of connections. Hygienic design, highly CIP/SIP-compatible due to its almost complete lack of dead volume or narrow clearances. All wetted components made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel; various rotor types, shaft seals and process connections available. Installed as a pump set with geared standardised motor. Vitalobe is EHEDG-certified. The pump elastomers comply with FDA standards and EN 1935/2004. Accessories include trolley, heatable casing or casing cover and overpressure protection unit. ATEX-compliant version is available.

Applications:

Hygienic and gentle handling of sensitive or high-viscosity fluids in the food, beverage and pharmaceutical industries, the chemical industry and general process engineering.

 PumpDrive

Pumps for power station conventional islands

CHTA / CHTC / CHTD



DN	100 – 500
Q [m³/h]	max. 3700
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [rpm]	max. 6750

Also available for 60 Hz
Higher ratings possible upon request.

Description:

Horizontal high-pressure barrel-type pumps with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN and ANSI.

Applications:

For pumping feed water and condensate in power stations and industrial plants, generation of pressurised water for bark peeling and descaling units.

HGB / HGC / HGD



DN	40 – 400
Q [m³/h]	max. 2300
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [rpm]	max. 7000

Also available for 60 Hz
Higher ratings possible upon request.

Description:

Horizontal radially split ring-section pump with radial impellers, single-entry or double-entry, multistage.

Applications:

For pumping feed water and condensate in power stations and industrial plants, pressurised water generation for bark peeling and descaling units, snow guns, etc.

HGM



DN	25 – 100
Q [m³/h]	max. 274
H [m]	max. 1400
p [bar]	max. 140
T [°C]	max. +160
n [rpm]	max. 3600

Also available for 60 Hz
Higher ratings possible upon request.

Description:

Horizontal radially split product-lubricated multistage ring-section pump with radial impellers, axial and radial single-entry inlet.

Applications:

For pumping feed water in power stations, boiler feed systems and condensate transport in industrial plants.

YNK



DN	125 – 600
Q [m³/h]	max. 4500
H [m]	max. 370
p [bar]	max. 40
T [°C]	max. +210
n [rpm]	max. 1800

Higher ratings possible upon request.

Description:

Horizontal radially split single-stage double-entry boiler feed booster pump (booster system) with cast steel single or double volute casing.

Applications:

For pumping feed water in power stations and industrial plants.

LUV / LUVA



DN	100 – 550
Q [m³/h]	max. 7000
H [m]	max. 300
p [bar]	max. 350
T [°C]	max. +380
n [rpm]	max. 3600

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical spherical casing pump, radial impellers, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to TRD, ASME or IBR.

Applications:

Hot water recirculation in forced-circulation, forced-flow and combined-circulation boilers for very high pressures and in solar power towers.

WKTB



DN	150 – 300
Q [m³/h]	max. 1500
H [m]	max. 370
p [bar]	max. 40
T [°C]	max. +140
n [rpm]	1500

Data for 50 Hz operation

Higher ratings possible upon request.

Description:

Vertical can-type ring-section pump, underfloor installation on base frame, multistage, first-stage impeller designed as a double-entry suction impeller, radial impellers. Flanges to DIN or ANSI.

Applications:

For pumping condensate in power stations and industrial plants.

SEZ / SEZT / PHZ / PNZ



Q [m³/h]	max. 80000
H [m]	max. 120
T [°C]	max. +40
n [rpm]	max. 980

Data for 50 Hz operation

Also available for 60 Hz

Higher ratings possible upon request.

Description:

Vertical tubular casing pump with open mixed flow impeller (SEZ), mixed flow propeller (PHZ) or axial propeller (PNZ), pump inlet with bellmouth or suction elbow, pull-out design available, discharge nozzle arranged above or below floor level, flanges to DIN or ANSI standards available.

Applications:

For pumping raw, clean, service and cooling water in industry, water supply systems, power stations and seawater desalination plants.

SNW / PNW



DN	350 – 800
Q [m³/h]	max. 9000
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60
n [rpm]	max. 1500

Data for 50 Hz operation

Also available for 60 Hz

Higher ratings possible upon request.

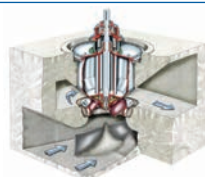
Description:

Vertical tubular casing pump with mixed flow impeller (SNW) or axial propeller (PNW), single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above or below floor level.

Applications:

Irrigation and drainage systems, stormwater pumping stations, pumping raw and clean water, water supply, cooling water.

Beveron



Q [m³/h]	max. 30
H [m]	max. 27

Data for 50 Hz operation

Also available for 60 Hz

Higher ratings possible upon request.

Description:

Concrete volute casing pump with mixed flow impeller, single-stage, with zero-maintenance lubricant-free Residur bearings.

Applications:

Coast protection and flood control, irrigation and drainage, low-lift pumping stations, reservoir filling, cooling water, raw and clean water.

SPY



DN	350 – 1200
Q [m³/h]	max. 21600
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +105
n [rpm]	max. 1480

Data for 50 Hz operation

Also available for 60 Hz

Higher ratings possible upon request.

Description:

Long-coupled volute casing pump, single-stage, in back pull-out design.

Applications:

Irrigation, drainage and water supply systems, for pumping condensate, cooling water, service water, etc.

Pumps for nuclear power stations

RER



DN	max. 800
Q [m³/h]	max. 40000
H [m]	max. 140
p [bar]	max. 175
T [°C]	max. +350
n [rpm]	max. 1800

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical, single-stage reactor coolant pump with forged circular casing plated on the inside, with diffuser, either with integrated pump thrust bearing or shaft supported by motor bearing.

Applications:

Reactor coolant recirculation in nuclear power stations.

RSR



DN	max. 750
Q [m³/h]	max. 24000
H [m]	max. 215
p [bar]	max. 175
T [°C]	max. +350
n [rpm]	max. 1800

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical single-stage reactor coolant pump with cast casing, shaft supported by motor bearing.

Applications:

Reactor coolant recirculation in nuclear power stations.

RUV



DN	max. 650
Q [m³/h]	max. 22000
H [m]	max. 111
p [bar]	max. 155
T [°C]	max. +350
n [rpm]	max. 1800

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical, single-stage reactor coolant pump. Seal-less design with integrated wet rotor motor and integrated flywheel. Product-lubricated bearings, no oil supply systems required.

Applications:

Reactor coolant recirculation in generation III+ nuclear power stations.

PSR



DN	max. 600
Q [m³/h]	max. 9000
H [m]	max. 45
p [bar]	max. 75
T [°C]	max. +300
n [rpm]	max. 2000

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical pump set integrated in the reactor containment floor, seal-less pump with leak-free, low-maintenance wet rotor motor.

Applications:

Reactor coolant recirculation in boiling water reactors.

RHD



DN	125 – 500
Q [m³/h]	max. 6500
H [m]	max. 1000
p [bar]	max. 150
T [°C]	max. +210
n [rpm]	max. 6500

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Horizontal single-stage double-entry main feed water pump MFWP, cast or forged variant.

Applications:

Main feed water supply (MFWS) in steam generation systems of nuclear power stations.

LUV Nuclear



DN	40 – 600
Q [m³/h]	max. 7000
H [m]	max. 300
p [bar]	max. 320
T [°C]	max. +430

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical pump with integrated motor, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no oil supply systems required. Design to ASME Section 3, KTA, etc.

Applications:

As reactor water clean-up pump in boiling water reactors, reactor coolant pump in boiling water and pressurised water reactors and recirculation pump in test facilities.

RHM



DN	max. 150
Q [m³/h]	max. 300
H [m]	max. 2100
p [bar]	max. 220
T [°C]	max. +180
n [rpm]	max. 8000

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Horizontal multistage barrel pull-out pump.

Applications:

Core flooding, emergency cooling and residual heat removal systems, chemical and volume control systems, control rod drive systems, high-pressure and medium-pressure safety injection systems, emergency feed water systems, start-up and shut-down feed water systems, high-pressure charging.

RVM



DN	max. 85
Q [m³/h]	max. 50
H [m]	max. 2000
p [bar]	max. 200
T [°C]	max. +100
n [rpm]	max. 6000

Available for 50 Hz and 60 Hz
Higher ratings possible upon request.

Description:

Vertical multistage barrel pull-out pump.

Applications:

Core flooding, emergency cooling and residual heat removal systems, chemical and volume control systems, high-pressure and medium-pressure safety injection systems.

RHR



DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [rpm]	max. 3600

Available for 50 Hz and 60 Hz

Description:

Horizontal annular casing pump with forged or cast pressure boundary and diffuser.

Applications:

Core flooding, emergency cooling and residual heat removal systems, ancillary systems, acid feed system and low-pressure injection system, component cooling water systems.

RVR



DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [rpm]	max. 3600

Available for 50 Hz and 60 Hz

Description:

Vertical annular casing pump with forged or cast pressure boundary and diffuser.

Applications:

Core flooding, emergency cooling and residual heat removal systems, ancillary systems, acid feed system and low-pressure injection system, component cooling water systems.

Pumps for desalination by reverse osmosis

RPH-RO



DN	100 – 350
Q [m³/h]	max. 2500
H [m]	max. 110
p [bar]	max. 80
T [°C]	max. +40

Data for 50 Hz operation
Also available for 60 Hz

Description:
Horizontal radially split volute casing pump for dry installation, made of super-duplex stainless steel.

Applications:
Booster pump for RO seawater desalination systems.

HGM-RO



DN	65 – 250
Q [m³/h]	max. 1500
H [m]	max. 950
p [bar]	max. 120
T [°C]	max. +40
n [rpm]	max. 3600

Also available for 60 Hz
Higher ratings possible upon request.

Description:
Horizontal radially split product-lubricated multistage ring-section pump with radial impellers and plain bearings, axial and radial single-entry inlet. Duplex stainless steel variant or super duplex stainless steel variant, also suitable for chilled water applications.

Applications:
High-pressure pump for RO seawater desalination systems.

Multitec-RO



DN	50 – 150
Q [m³/h]	max. 850
H [m]	max. 1000
p [bar]	max. 100
T [°C]	max. +45
n [rpm]	max. 3500

Description:
Horizontal, multistage centrifugal pump in ring-section design. Axial suction nozzle. Discharge nozzle can be turned in steps of 90°. Closed radial impellers. Made of duplex or super-duplex stainless steel.

Applications:
High-pressure pump for RO seawater desalination systems.



 PumpDrive, SuPremE

Salino Pressure Center



Q [m³/h]	8.3 – 23
p [bar]	max. 80
T [°C]	max. +50
n [rpm]	max. 1750

Data for 50 Hz and 60 Hz operation

Description:
Axial piston pump with integrated energy recovery device in forged duplex stainless steel. Product-lubricated (oil-free).

Applications:
Seawater desalination by reverse osmosis (RO) for small and medium-sized systems.

Positive displacement pumps

RC / RCV

	DN	20 – 100	Description: Helical gear pump, self-priming, with bypass valve, close-coupled design, for horizontal installation with baseplate or vertical installation. With mechanical seal. Applications: Fuel feed, handling fuel, lubricating oil and viscous fluids, lubrication systems.
	Q [m³/h]	max. 78	
	H [m]	max. 100	
	p [bar]	max. 10	
	T [°C]	+5 to +80	
	n [rpm]	max. 1500	
	Data for 50 Hz operation Also suitable for 60 Hz operation		

Fire-fighting systems

EDS

	DN	32 – 300	Description: Automatic fire-fighting system consisting of jockey pump and one or several duty pumps, with electric motor or diesel engine. Includes manifold, valves, accessories and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, FM, etc. Applications: Office buildings, hotels, industry, shopping malls, etc.
	Q [m³/h]	max. 840	
	H [m]	max. 140	
	p [bar]	max. 16	
	T [°C]	+5 to +50	
	n [rpm]	max. 3000	
	Data for 50 Hz operation Also suitable for 60 Hz operation		

DU / EU

	DN	32 – 350	Description: Automatic fire-fighting system consisting of pumps with electric motor or diesel engine and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, FM, etc. Applications: Office buildings, hotels, industry, shopping malls, etc.
	Q [m³/h]	max. 2500	
	H [m]	max. 150	
	p [bar]	max. 25	
	T [°C]	+5 to +50	
	n [rpm]	max. 3000	
	Data for 50 Hz operation Also suitable for 60 Hz operation		

Control units

Controlmatic E



No. of pumps	max. 1	Description: Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump. Applications: For water supply systems in combination with Multi Eco, Ixo, UPA 100C and S 100D.
Voltage [V]	1~230	

Controlmatic E.2



No. of pumps	max. 1	Description: Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump. Applications: For water supply systems in combination with Multi Eco, Multichrom S, Ixo, UPA 100C, S 100D.
Voltage [V]	1~230	

Cervomatic EDP.2



No. of pumps	max. 1	Description: Automatic control unit for pressure-controlled starting and either pressure-controlled or flow-controlled stopping and monitoring of a single pump. Applications: For water supply systems with pumps of the Multi Eco, Ixo, UPA 100C, S 100D and UPA 150C type series with single-phase or three-phase motors.
Voltage [V]	1~230 / 3~400	

LevelControl Basic 2



No. of pumps	max. 2	Description: Level control unit for controlling and protecting either one or two pumps. DOL starting up to 4 kW, star-delta starting up to 22 kW. Higher ratings on request. Applications: Tank drainage via float switches, digital switches, 4...20 mA, pneumatic (w/o compressor) or bubbler system in building services and waste water applications. Tank filling using float switches, digital switches or 4...20 mA in building services and water supply applications.
P [kW]	max. 22	
Voltage [V]	1~230 / 3~400	
Higher ratings and other mains voltages available on request		

UPA Control



No. of pumps	max. 1	Description: The control unit from is suitable for level control and protection of submersible borehole pumps, submersible motor pumps and dry-installed pumps with single-phase AC motors 1~ 230 V or three-phase motors 3~ 230 / 400 V / 50 Hz. The motor is started DOL. Enclosure: IP56, dimensions: 205 x 255 x 170 mm (H x W x D). Applications: Water supply systems in conjunction with UPA 100C, S 100D and UPA 150C.
P [kW]	3	
Voltage [V]	1~230 / 3~400	

Hyatronic N



No. of pumps	max. 6
P [kW]	22
Voltage [V]	3~400
Higher ratings and other mains voltages available on request	

Description:
Pump control system in control cabinet for cascade starting and stopping of up to 6 pumps on the mains.

Applications:
For draining tanks and sumps in drainage and waste water disposal applications. For filling tanks in water supply applications. Level measurement via float switch or 4...20 mA sensor.

Monitoring and diagnosis

Amacontrol



No. of pumps	max. 1
Type	Amacan
Voltage [V]	230 V AC

Description:
Monitoring system for submersible motor pumps, with tripping function.

Control system

BOA-Systronic



No. of pumps	max. 1
PN	6 / 10 / 16
DN	20 – 200
Voltage [V]	24 V AC
T [°C]	+20 to +120
Higher ratings possible upon request.	

Description:
Energy-saving system for the coordinated operation of pump and control valve. The system provides an all-in solution designed to access untapped hydraulic savings potential. Irrespective of the pump technology used, it allows savings of 50 % in pump electricity while also reducing primary energy costs thanks to lower return flow temperatures. The system can be combined with all control systems and pumps with a 0-10 V control input. Straightforward integration in automation systems with optional BACnet gateway.

Applications:
Supply temperature control in HVAC installations with volume flow rates of 0.5 to 185 m³/h and temperature differentials of 3 to 30 K. Threaded (DN20) or flanged (DN25-DN200) line connections; suitable for upgrading installed systems and for new systems, for connection to all types of heat generators (boiler or district heating), all main feed manifolds, all control systems, all supply temperatures.





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