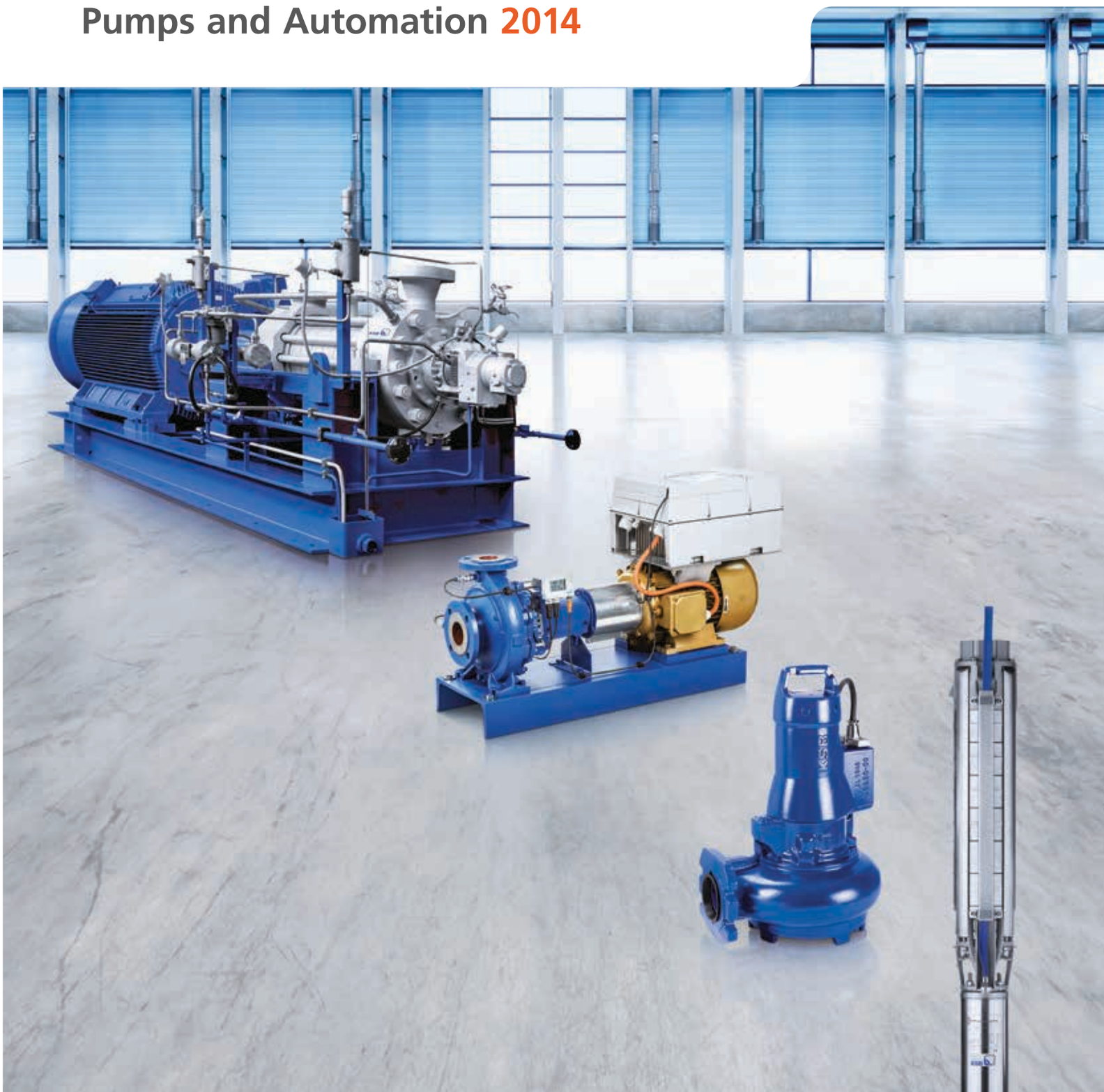
› **Our technology. Your success.**
Pumps ▪ Valves ▪ Service

Pumps and Automation 2014



Our 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. KSB is a loyal partner. And a strong one:

- Over 140 years' experience
- Present in more than 100 countries
- More than 16,000 employees
- More than 160 service centres worldwide
- Approximately 2,600 service specialists

Type Series Index

Our spare parts and services:
Dependability at your call

We tailor our services to enable new ways of individually optimising our products. They underscore our far-reaching sense of customer responsibility. That commitment starts before any orders – for example with sound advice on financing options. And it goes far beyond product arrival. A dependable partnership with KSB lasts for years.

In addition to spare parts, we offer our customers a plethora of services around pumps, valves, and other rotating equipment – also for non-KSB products:

- Technical consultancy
- Services provided on-site and in our service centres
- Maintenance inspection management
- Reverse engineering / retrofit
- TPM® Total Pump Management
- SES System Efficiency Services

Which is how we secure the long-term value of our customers' facilities.

Ready where you are. KSB runs more than 160 service centres around the world. Some 3,000 highly trained KSB specialists are on call to install, commission and maintain your equipment. So you can plan for a future free of unwanted surprises. And we also provide on-site training sessions. They ensure that operators can use KSB pumps and valves and systems efficiently and profitably, day in, day out.

Our mission:
Certified quality assurance

First-class products and excellent service take top priority at KSB. 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 KSB 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: 'Made by KSB'.

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.

In addition to quality, energy efficiency also plays an important role at KSB. Our products already fulfil the statutory minimum efficiency values of the ErP regulations for 2015, making a valuable contribution at the component level. You can potentially save even more energy by optimising your entire plant with the FluidFuture® energy efficiency concept.

FF FLUID FUTURE® ErP 2015

THE GLOBAL COMPACT WE SUPPORT

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

Pumps

Type / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation possible	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Circulator / hot water service pumps, fixed speed	Riotherm	24				■				■	
Drinking water circulator pumps, fixed speed	Rio-Therm N	24								■	
Drinking water circulator pumps, variable speed	Rio-Eco Therm N	24	■		■					■	
	Calio Therm S	25	■		■					■	
Circulator pumps, variable speed	Calio S	25	■	■	■					■	
	Calio	25	■	■	■					■	
	Rio-Eco Z N	25	■	■	■					■	
In-line pumps with fixed / variable speed drive	Etaline / Etaline Z	26	■	■		■		■		■	
	Etaline PumpDrive	26	■	■	■	■		■		■	
	Etaline Z PumpDrive	26	■	■	■	■		■		■	
	Etaline-R	26	■	■		■		■		■	
	ILN / ILNE / ILNS	27	■	■		■	■	■		■	
	ILNC / ILNCE / ILNCS	27	■	■		■	■	■		■	
Standardised / close-coupled pumps, fixed / variable speed	Etanorm / Etanorm-R	28	■	■		■	■	■	■	■	
	Etanorm PumpDrive	28	■	■	■		■	■	■	■	
	Etabloc	28	■	■		■	■	■	■	■	
	Etabloc PumpDrive	28	■	■	■		■	■	■	■	
	Etachrom BC	28	■	■		■	■	■	■	■	
	Etachrom BC PumpDrive	29	■	■	■		■	■	■	■	
	Etachrom NC	29	■	■		■	■	■	■	■	
	Etachrom NC PumpDrive	29	■	■	■		■	■	■	■	
	Etanorm GPV / CPV	29					■	■	■	■	
Hot water pumps	HPK-L / HPK / HPH	30				■		■	■	■	
Hot water / thermal oil pumps	Etanorm SYT / RSY	31				■		■		■	
	Etabloc SYT / Etaline SYT	31				■		■		■	
Thermal oil pumps with magnetic drive or canned motor	HX (Nikkiso-KSB)	31						■			
	HY (Nikkiso-KSB)	31						■			
Standardised chemical pumps	MegaCPK	32	■			■		■	■		
	MegaCPK PumpDrive / PumpMeter	32	■		■			■	■		
	CPKN	32				■		■			
Seal-less pumps	Magnochem	32				■		■	■		
	Magnochem-Bloc	33				■		■			
	Etaseco / Etaseco-I	33				■	■	■	■	■	
	Etaseco RVP	33				■	■	■	■	■	
	Secochem Ex / Secochem Ex K	33				■		■	■		

■ FluidFuture® ■ ErP ■ Factory-automated ■ Automation possible

Pumps

Type / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation possible	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Seal-less pumps	HN (Nikkiso-KSB)	34						■	■		
	HT (Nikkiso-KSB)	34						■	■		
	HK (Nikkiso-KSB)	34						■	■		
	VN (Nikkiso-KSB)	34						■	■		
	DN (Nikkiso-KSB)	34						■			
Process pumps	RPH	35				■		■	■		
	RPHb	35						■	■		
	RPH-V	35						■	■		
	RPHmdp	35				■		■	■		
	CTN	35						■			
	API series (Nikkiso-KSB)	36						■			
	CHTR	36						■	■		
	YNKR	36						■	■		
	CINCP / CINCN	36				■		■	■		
	INVCP / INVCN	36	■	■		■	■	■	■		
	RWCP / RWCN	37				■	■	■	■		
	WKTR	37						■			
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	37			■		■			■	
	Hya-Rain Eco	37			■		■			■	
Domestic water supply / swimming pools	Multi Eco	38				■	■			■	
	Multi Eco-Pro	38			■		■				
	Multi Eco-Top	38			■		■			■	
	Movitec VME	38	■	■		■	■	■		■	
	Ixo	38				■	■			■	
	Filtra N	39								■	
Pressure booster systems	Hya-Solo EV	39			■					■	
	Hya-Solo D	39			■		■	■		■	
	Hya-Solo DV	39			■		■	■		■	
	Hya-Compact K	40			■		■	■		■	
	Hya-Compact VP	40			■		■	■		■	
	Hya-Eco VP	40			■		■	■		■	
	Hyamat K	40			■		■	■		■	
	Hyamat V	40			■		■	■		■	
	Hyamat VP	41	■		■		■	■		■	
	Hyamat IK, IV, IVP	41			■		■	■			

■ FluidFuture® ■ ErP ■ Factory-automated ■ Automation possible

Pumps

Type / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation possible	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Drainage pumps / waste water pumps	Ama-Drainer N 301, 302, 303, 358	41				■				■	
	Ama-Drainer 400/10 400/35 500/10/11	41				■		■		■	
	Ama-Drainer 80, 100	42				■				■	
	Ama-Porter F / S	42				■				■	
	Rotex	42						■		■	
	MK / MKY	42				■		■		■	
Lifting units / pump stations	AmaDS³	43				■	■			■	
	Ama-Drainer-Box	43			■					■	
	Ama-Drainer-Box Mini	43			■					■	
	mini-Compacta	43			■					■	
	Compacta	43			■			■		■	
	CK 800-Eu Pump Station	44			■					■	
	Ama-Porter CK Pump Station	44			■					■	
	Amarex N CK Pump Station	44			■					■	
	Evamatic-Box	44								■	
Submersible motor pumps	Amarex N S32	45				■	■	■		■	
	Amarex N	45				■	■	■		■	
	Amarex KRT	45	■			■	■	■		■	
	Amarex KRT dry-installed	45				■	■	■		■	
	Amarex KRT, wet / dry-installed	45	■			■	■	■		■	
Submersible pumps in discharge tubes	Amacan K	46				■	■				
	Amacan P	46				■	■				
	Amacan S	46				■	■				
Mixers / agitators / tank cleaning units	Amamix	47					■	■			
	Amaprop	47					■	■			
	Amajet	47					■	■			
	Amaline	47					■	■			
Pumps for solids-laden fluids	Sewatec / Sewabloc	48				■	■	■			
	KWP / KWP-Bloc	48				■	■	■	■		■
Slurry pumps	WBC	48									■
	LSA-S	48						■	■		■
	LCC-M	49						■	■		■
	LCC-R	49						■	■		■
	TBC	49									■
	LCV	49									■
	FGD	49						■	■		■
	Mega	50									■

■ FluidFuture® ■ ErP ■ Factory-automated ■ Automation possible

Pumps

Type / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation possible	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Slurry pumps	HHD	50									■
	MHD	50									■
	LHD	50									■
	MDX	50						■			■
	ZW	51									■
	HVF	51						■	■		
Self-priming pumps	Etaprime L	51					■	■			
	Etaprime B / BN	51					■	■			
	MZ	52					■	■	■	■	
Submersible borehole pumps	S 100D / UPA 100C	52				■	■	■		■	
	UPA 150C	52	■	■		■	■	■		■	
	UPA 200, 200B, 250C	52				■	■	■			
	UPA 300, 350	53				■	■	■			
	UPZ, BSX-BSF	53				■	■	■			
	BEV	53					■	■	■	■	
High-pressure pumps, fixed / variable speed	Movitec V / LHS / VS / VC	54	■	■		■	■	■	■	■	
	Movitec VCI	54	■	■			■	■			
	Movitec PumpDrive	54	■	■	■		■	■	■	■	
	Multitec	54	■			■	■	■	■	■	
	Multitec PumpDrive	54			■		■	■	■	■	
Axially split pumps	Omega	55	■			■	■	■	■	■	
	RDLO	55				■	■	■	■	■	
	RDLP	55					■				
Hygienic pumps	Vitachrom	56				■		■			
	Vitacast	56				■		■			
	Vitaprime	56				■		■			
	Vitastage	56				■		■			
	Vitalobe	56				■		■			
Pumps for power station conventional islands	CHTA / CHTC / CHTD	57							■		
	HGB / HGC / HGD	57						■	■		
	HGM	57				■		■	■		
	YNK	57							■		
	LUV / LUVA	57							■		
	WKTB	58							■		
	SEZ / SEZT / PHZ / PNZ	58					■	■	■		
	SNW / PNW	58					■	■	■		
	Beveron	58					■	■	■		
	SPY	58					■	■	■		

■ FluidFuture® ■ ErP ■ Factory-automated ■ Automation possible

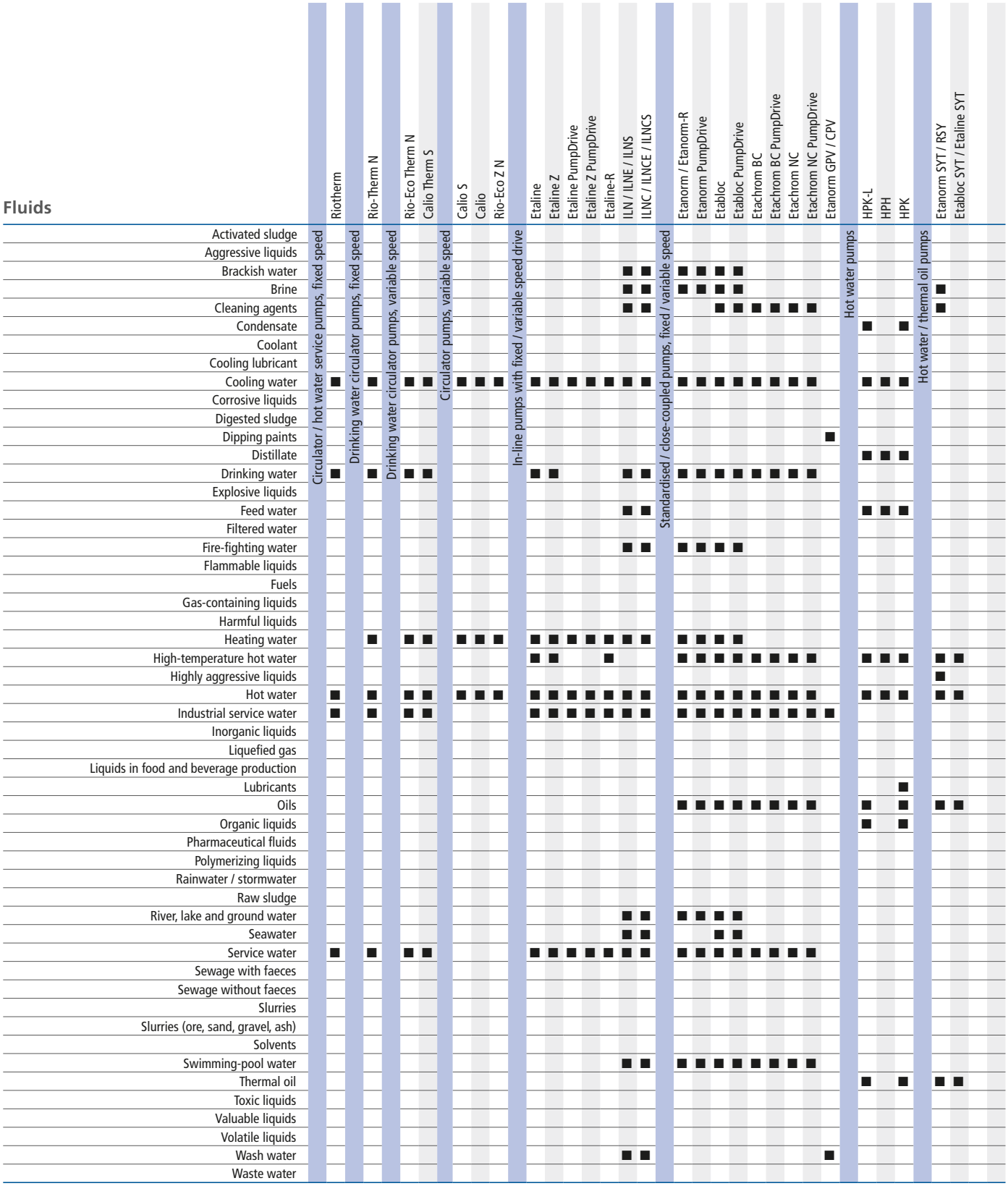
Pumps

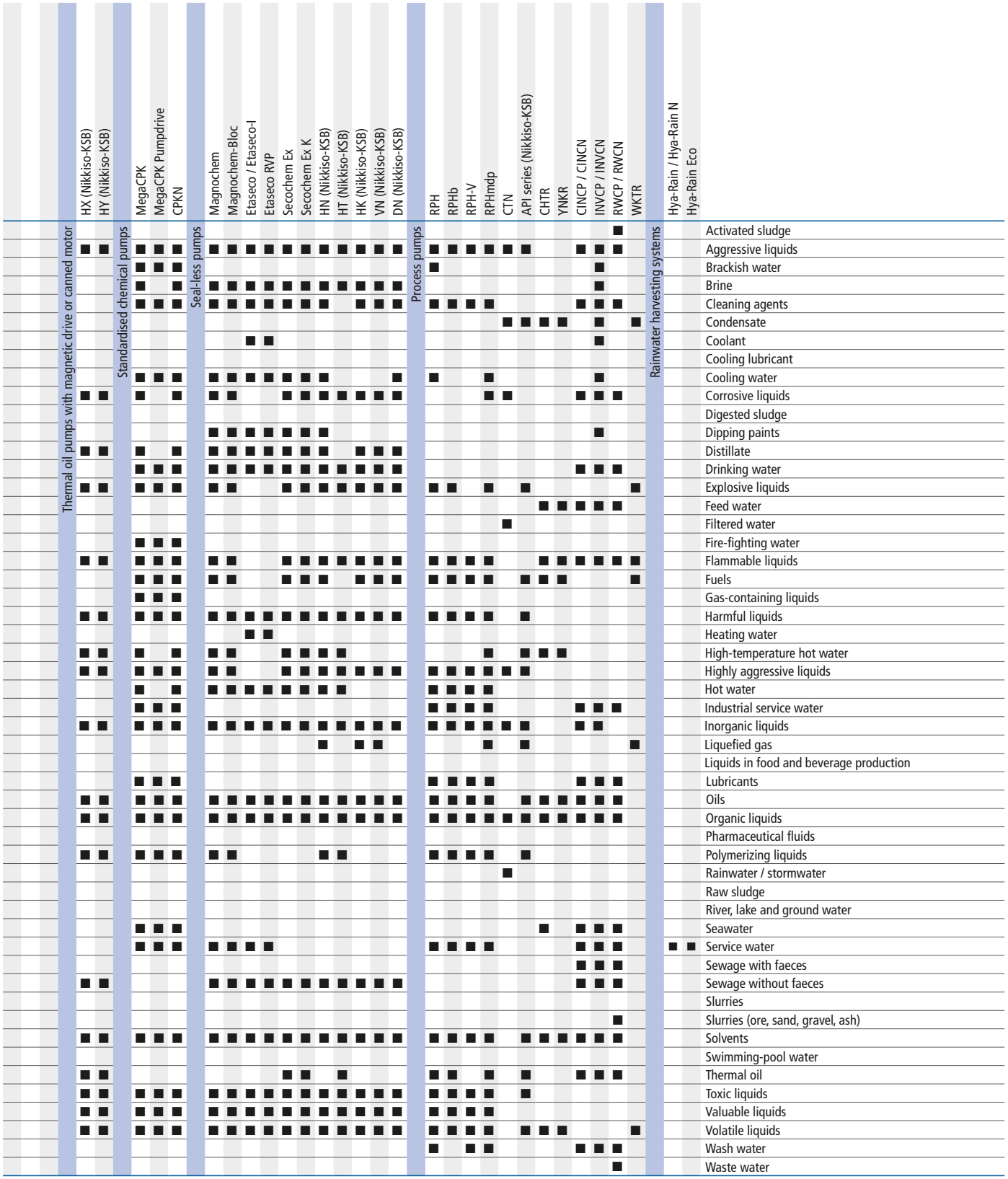
Type / Application	Type series	Page	FluidFuture®	ErP	Factory-automated	Automation possible	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Pumps for nuclear power plants	RER	59							■		
	RSR	59							■		
	RUV	59							■		
	PSR	59							■		
	RHD	59							■		
	LUV Nuclear	60							■		
	RHM	60							■		
	RVM	60							■		
	RHR	60							■		
	RVR	60							■		
Pumps for desalination by reverse osmosis	RPH-RO	61					■				
	HGM-RO	61					■				
	Multitec-RO	61				■	■	■			
	SALINO Pressure Center	61				■	■	■			
Positive displacement pumps	RC / RCV	62						■			
	IPR	62						■			
Fire-fighting systems	FFS	62			■		■	■		■	
	FFU	62			■		■	■		■	

■ FluidFuture® ■ ErP ■ Factory-automated ■ Automation possible

Automation and drives

Type / Application	Type series	Page	FluidFuture®	ErP	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Automation and drives	SuPremE	63	■	■	■	■		■	
Control units	Controlmatic E	63			■			■	
	Controlmatic E.2	63			■			■	
	Cervomatic EDP.2	63			■			■	
	LevelControl Basic 2	64			■	■		■	
	UPA Control	64			■			■	
	hyatronic N	64			■	■		■	
Speed control systems	PumpDrive	65	■		■	■		■	
	hyatronic spc	65			■	■		■	
	Hyamaster ISB	65			■	■		■	
	Hyamaster SPS	65	■		■	■		■	
Monitoring and diagnostic systems	PumpMeter	66	■		■	■		■	
	Amacontrol	66			■	■			
Control system	BOA-Systronic	66	■					■	

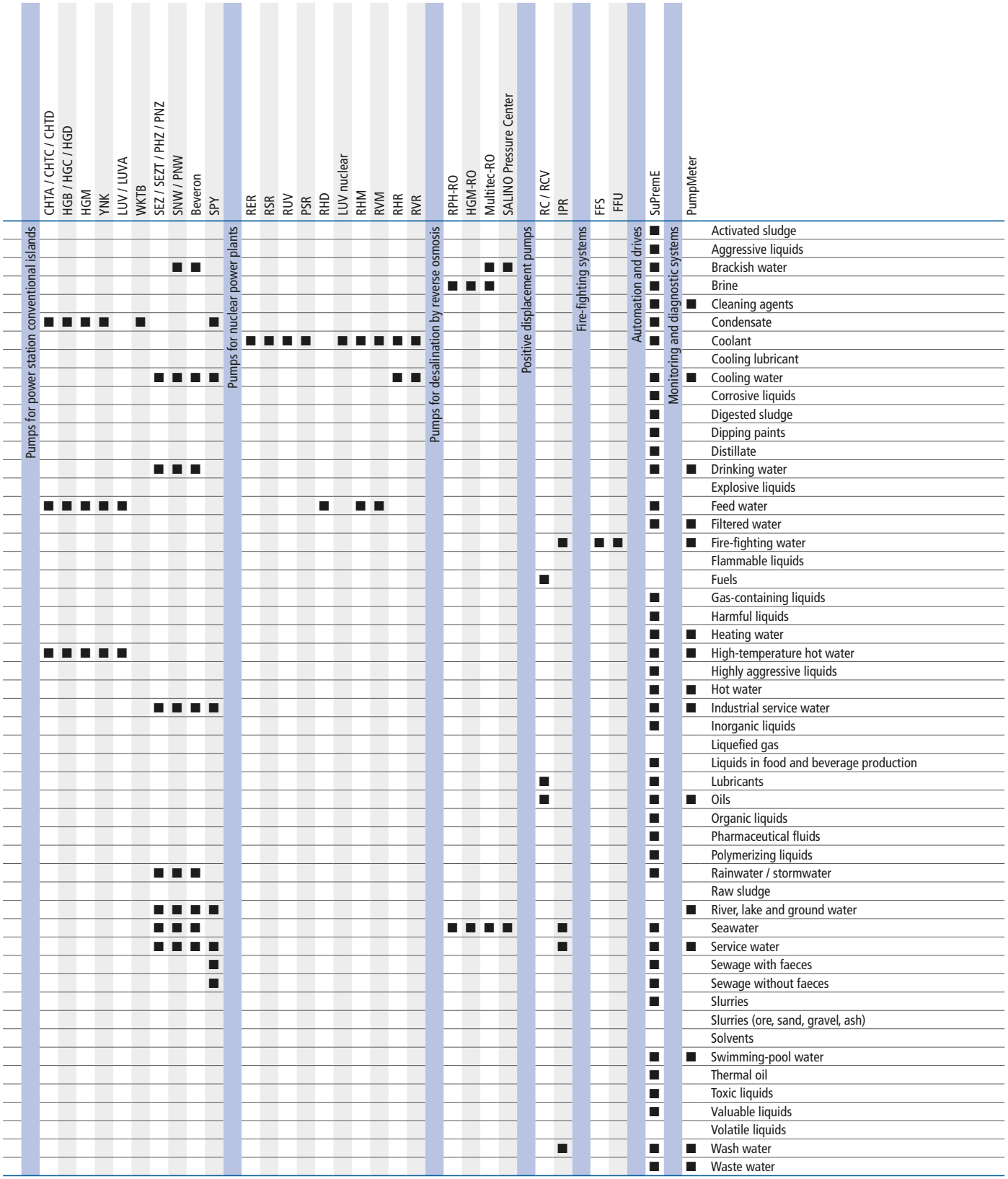

Fluids
Circulator / hot water service pumps, fixed speed
Riotherm
Drinking water circulator pumps, fixed speed
Rio-Therm N
Drinking water circulator pumps, variable speed
Rio-Eco Therm N
Calio Therm S
Circulator pumps, variable speed
Calio S
Calio
Rio-Eco Z N
In-line pumps with fixed / variable speed drive
Etaline
Etaline Z
Etaline PumpDrive
Etaline Z PumpDrive
Etaline-R
ILN / ILNE / ILNS
ILNC / ILNCE / ILNCS
Standardised / close-coupled pumps, fixed / variable speed
Etanorm / Etanorm-R
Etanorm PumpDrive
Etabloc
Etabloc PumpDrive
Etachrom BC
Etachrom BC PumpDrive
Etachrom NC
Etachrom NC PumpDrive
Etanorm GPV / CPV
Hot water pumps
HPK-L
HPH
HPK
Hot water / thermal oil pumps
Etanorm SYT / RSY
Etabloc SYT / Etaline SYT
Activated sludge
Aggressive liquids
Brackish water
Brine
Cleaning agents
Condensate
Coolant
Cooling lubricant
Cooling water
Corrosive liquids
Digested sludge
Dipping paints
Distillate
Drinking water
Explosive liquids
Feed water
Filtered water
Fire-fighting water
Flammable liquids
Fuels
Gas-containing liquids
Harmful liquids
Heating water
High-temperature hot water
Highly aggressive liquids
Hot water
Industrial service water
Inorganic liquids
Liquefied gas
Liquids in food and beverage production
Lubricants
Oils
Organic liquids
Pharmaceutical fluids
Polymerizing liquids
Rainwater / stormwater
Raw sludge
River, lake and ground water
Seawater
Service water
Sewage with faeces
Sewage without faeces
Slurries
Slurries (ore, sand, gravel, ash)
Solvents
Swimming-pool water
Thermal oil
Toxic liquids
Valuable liquids
Volatile liquids
Wash water
Waste water


Thermal oil pumps with magnetic drive or canned motor
HX (Nikkiso-KSB)
HY (Nikkiso-KSB)
Standardised chemical pumps
MegaCPK
MegaCPK Pumpdrive
CPKN
Seal-less pumps
Magnochem
Magnochem-Bloc
Etaseco / Etaseco-I
Etaseco RVP
Secochem Ex
Secochem Ex K
HN (Nikkiso-KSB)
HT (Nikkiso-KSB)
HK (Nikkiso-KSB)
VN (Nikkiso-KSB)
DN (Nikkiso-KSB)
Process pumps
RPH
RPHb
RPH-V
RPHmdp
CTN
API series (Nikkiso-KSB)
CHTR
YNKR
CINCP / CINCN
INVCP / INVCN
RWCP / RWCN
WKTR
Rainwater harvesting systems
Hya-Rain / Hya-Rain N
Hya-Rain Eco
Activated sludge
Aggressive liquids
Brackish water
Brine
Cleaning agents
Condensate
Coolant
Cooling lubricant
Cooling water
Corrosive liquids
Digested sludge
Dipping paints
Distillate
Drinking water
Explosive liquids
Feed water
Filtered water
Fire-fighting water
Flammable liquids
Fuels
Gas-containing liquids
Harmful liquids
Heating water
High-temperature hot water
Highly aggressive liquids
Hot water
Industrial service water
Inorganic liquids
Liquefied gas
Liquids in food and beverage production
Lubricants
Oils
Organic liquids
Pharmaceutical fluids
Polymerizing liquids
Rainwater / stormwater
Raw sludge
River, lake and ground water
Seawater
Service water
Sewage with faeces
Sewage without faeces
Slurries
Slurries (ore, sand, gravel, ash)
Solvents
Swimming-pool water
Thermal oil
Toxic liquids
Valuable liquids
Volatile liquids
Wash water
Waste water

Fluids	Domestic water supply / swimming pools	Multi Eco	Multi Eco-Pro	Multi Eco-Top	Movitec VME	Ixo	Filtra N	Pressure booster systems	Hya-Solo EV	Hya-Solo D	Hya-Solo DV	Hya-Compact K	Hya-Compact VP	Hya-Eco VP	Hyamat K	Hyamat V	Hyamat VP	Hyamat IK, IV, IVP	Drainage pumps / waste water pumps	Ama-Drainer N 301, 302, 303, 358	Ama-Drainer 400/10 400/35 500/10/11	Ama-Drainer 80, 100	Ama-Porter F / S	Rotex	MK / MKY
Activated sludge																									
Aggressive liquids																									■
Brackish water																									
Brine																									
Cleaning agents																									
Condensate																									■
Coolant																									
Cooling lubricant																									
Cooling water					■													■							
Corrosive liquids																									
Digested sludge																									
Dipping paints																									
Distillate																									
Drinking water		■	■	■	■				■	■	■	■	■	■	■	■	■	■							
Explosive liquids																									
Feed water																									
Filtered water																									
Fire-fighting water					■																				
Flammable liquids																									
Fuels																									
Gas-containing liquids																									
Harmful liquids																									
Heating water																									
High-temperature hot water																									
Highly aggressive liquids																									
Hot water																									
Industrial service water					■				■	■	■	■	■	■	■	■	■	■		■	■	■			■
Inorganic liquids																									
Liquefied gas																									
Liquids in food and beverage production																									
Lubricants																									
Oils																									■
Organic liquids																									
Pharmaceutical fluids																									
Polymerizing liquids																									
Rainwater / stormwater									■	■	■	■	■	■	■	■	■								
Raw sludge																									
River, lake and ground water																				■	■	■	■		■
Seawater																									
Service water		■	■	■	■	■														■	■	■			■
Sewage with faeces																									
Sewage without faeces																				■	■	■	■		
Slurries																									
Slurries (ore, sand, gravel, ash)																									
Solvents																									
Swimming-pool water							■		■	■	■		■	■		■	■								
Thermal oil																									■
Toxic liquids																									
Valuable liquids										■	■														
Volatile liquids																									
Wash water																									
Waste water																				■	■	■	■	■	■

Lifting units / pump stations										Submersible motor pumps						Submersible pumps in discharge tubes				Mixers / agitators / tank cleaning units					Pumps for solids-laden fluids		
AmaDS3	Ama-Drainer-Box	Ama-Drainer-Box Mini	mini-Compacta	Compacta	Pump Station CK 800-Eu	Ama-Porter CK Pump Station	Amaren N CK Pump Station	Evamatic-Box		Amarex N S32	Amarex N	Amarex KRT	Amarex KRT dry-installed	Amarex KRT wet/dry-installed		Amacan K	Amacan P	Amacan S		Amamix	Amaprop	Amajet	Amaline		Sewatec / Sewabloc	KWP / KWP-Bloc	
										■	■	■	■	■		■							■		■		Activated sludge
			■	■								■		■												■	Aggressive liquids
			■	■								■	■	■													Brackish water
												■														■	Brine
																											Cleaning agents
			■	■																							Condensate
																											Coolant
																											Cooling lubricant
										■	■	■		■												■	Cooling water
												■														■	Corrosive liquids
										■	■	■	■	■											■		Digested sludge
																											Dipping paints
																											Distillate
			■	■								■		■		■	■	■									Drinking water
																											Explosive liquids
														■													Feed water
												■	■	■													Filtered water
																											Fire-fighting water
																											Flammable liquids
																											Fuels
										■	■	■	■	■												■	Gas-containing liquids
																											Harmful liquids
																											Heating water
																											High-temperature hot water
																											Highly aggressive liquids
			■	■										■												■	Hot water
			■	■						■	■	■	■	■		■	■	■				■				■	Industrial service water
																											Inorganic liquids
																											Liquefied gas
																											Liquids in food and beverage production
																											Lubricants
																											Oils
																											Organic liquids
																											Pharmaceutical fluids
																											Polymerizing liquids
												■		■			■	■							■		Rainwater / stormwater
										■	■	■	■												■		Raw sludge
										■	■	■		■			■	■							■	■	River, lake and ground water
			■	■						■	■	■														■	Seawater
	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■				■				■	Service water
■			■	■	■		■	■		■	■	■	■	■						■	■		■		■	■	Sewage with faeces
■	■	■	■	■	■	■	■	■		■	■	■	■	■						■	■		■		■	■	Sewage without faeces
																										■	Slurries
																										■	Slurries (ore, sand, gravel, ash)
																											Solvents
			■	■																							Swimming-pool water
																											Thermal oil
																											Toxic liquids
																											Valuable liquids
																											Volatile liquids
			■	■						■	■																Wash water
■	■	■	■	■	■	■	■	■		■	■	■	■	■											■	■	Waste water

Fluids	Slurry pumps	WBC	LSA-S	LCC-M / LCC-R	TBC	LCV	FGD	Mega	HHD / MHD / LHD / MDX	ZW	HVF	Self-priming pumps	Etaprime L	Etaprime B / BN	MZ	Submersible borehole pumps	S 100D / UPA 100C	UPA 150C	UPA 200, 200B, 250C	UPA 300, 350	UPZ, BSX-BSF	BEV	High-pressure pumps, fixed / variable speed	Movitec V / VS /VC / LHS	Movitec VCI	Movitec PumpDrive	Multitec	Multitec PumpDrive	Axially split pumps	Omega	RDLO	RDLP	Hygienic pumps	Vitachrom	Vitacast	Vitaprime	Vitastage	Vitalobe
Activated sludge																																						
Aggressive liquids			■	■									■	■																								
Brackish water															■							■						■	■		■	■	■					
Brine																																					
Cleaning agents																												■	■								
Condensate																									■			■	■		■	■	■					
Coolant																																					
Cooling lubricant																									■												
Cooling water																	■	■	■	■	■			■	■	■	■	■			■	■					
Corrosive liquids				■			■																														
Digested sludge																																					
Dipping paints																																					
Distillate																									■	■	■	■	■								
Drinking water																	■	■	■	■	■	■			■		■	■	■		■	■	■		■	■	■	■	■
Explosive liquids																																					
Feed water															■													■	■		■							
Filtered water															■													■	■									
Fire-fighting water																		■	■	■		■			■	■	■	■	■		■	■					
Flammable liquids																																					
Fuels																												■	■								
Gas-containing liquids																																					
Harmful liquids																																					
Heating water																												■	■		■						
High-temperature hot water																												■	■		■	■					
Highly aggressive liquids																																					
Hot water															■													■	■		■	■					
Industrial service water																	■	■	■	■	■	■		■	■	■	■	■	■		■	■					
Inorganic liquids																																					
Liquefied gas																																					
Liquids in food and beverage production																																		■	■	■	■	■
Lubricants																										■		■	■								
Oils																												■	■								
Organic liquids																												■	■								
Pharmaceutical fluids																																		■	■	■	■	■
Polymerizing liquids																																					
Rainwater / stormwater																																					
Raw sludge																																					
River, lake and ground water																	■	■	■	■	■	■						■	■		■	■	■					
Seawater																		■	■	■	■	■						■	■		■	■					
Service water																	■	■	■	■	■	■						■	■		■	■	■					
Sewage with faeces		■																																			
Sewage without faeces																																					
Slurries		■	■	■	■	■	■	■	■	■																											
Slurries (ore, sand, gravel, ash)		■	■	■	■	■	■	■	■	■																											
Solvents																												■	■								
Swimming-pool water																																					
Thermal oil																																					
Toxic liquids																																					
Valuable liquids																																					
Volatile liquids																																					
Wash water																									■	■	■	■	■								
Waste water				■		■		■		■																												


Pumps for power station conventional islands
CHTA / CHTC / CHTD
HGB / HGC / HGD
HGM
YNK
LUV / LUVA
WKTB
SEZ / SEZT / PHZ / PNZ
SNW / PNW
Beveron
SPY
Pumps for nuclear power plants
RER
RSR
RUV
PSR
RHD
LUV nuclear
RHM
RVM
RHR
RVR
Pumps for desalination by reverse osmosis
RPH-RO
HGM-RO
Multitec-RO
SALINO Pressure Center
Positive displacement pumps
RC / RCV
IPR
Fire-fighting systems
FFS
FFU
Automation and drives
SuPremE
Monitoring and diagnostic systems
PumpMeter
Activated sludge
Aggressive liquids
Brackish water
Brine
Cleaning agents
Condensate
Coolant
Cooling lubricant
Cooling water
Corrosive liquids
Digested sludge
Dipping paints
Distillate
Drinking water
Explosive liquids
Feed water
Filtered water
Fire-fighting water
Flammable liquids
Fuels
Gas-containing liquids
Harmful liquids
Heating water
High-temperature hot water
Highly aggressive liquids
Hot water
Industrial service water
Inorganic liquids
Liquefied gas
Liquids in food and beverage production
Lubricants
Oils
Organic liquids
Pharmaceutical fluids
Polymerizing liquids
Rainwater / stormwater
Raw sludge
River, lake and ground water
Seawater
Service water
Sewage with faeces
Sewage without faeces
Slurries
Slurries (ore, sand, gravel, ash)
Solvents
Swimming-pool water
Thermal oil
Toxic liquids
Valuable liquids
Volatile liquids
Wash water
Waste water

Applications

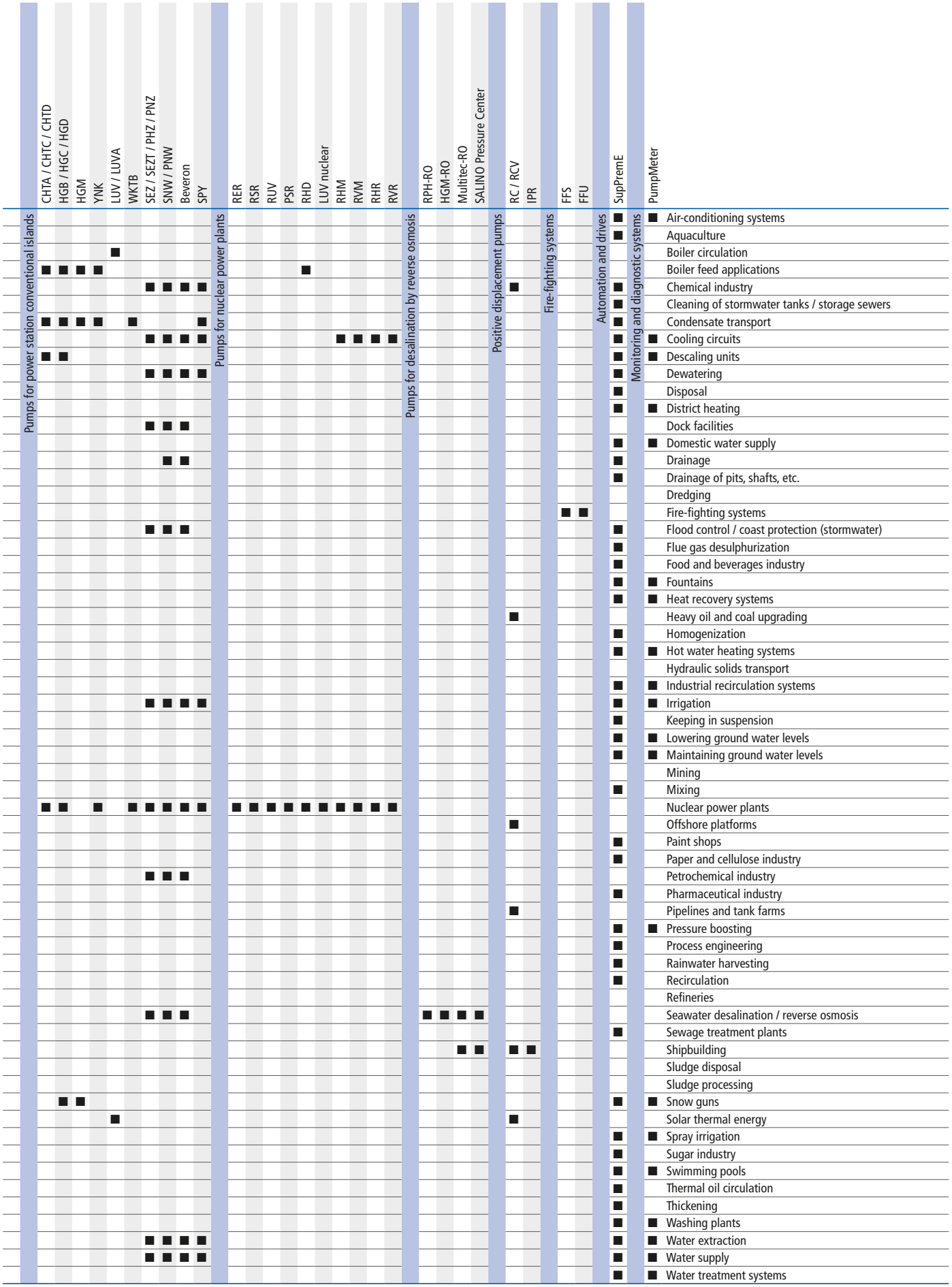
Applications	Circulator / hot water service pumps, fixed speed	Riotherm	Drinking water circulator pumps, fixed speed	Rio-Therm N	Drinking water circulator pumps, variable speed	Rio-Eco Therm N	Calio Therm S	Circulator pumps, variable speed	Calio S	Calio	Rio-Eco Z N	In-line pumps with fixed / variable speed drive	Etaline	Etaline Z	Etaline PumpDrive	Etaline Z PumpDrive	Etaline-R	ILN / ILNE / ILNS	ILNC / ILNCE / ILNCS	Standardised / close-coupled pumps, fixed / variable speed	Etanorm / Etanorm-R	Etanorm PumpDrive	Etabloc	Etabloc PumpDrive	Etachrom BC	Etachrom BC PumpDrive	Etachrom NC	Etachrom NC PumpDrive	Etanorm GPV / CPV	Hot water pumps	HPK-L	HPH	HPK	Hot water / thermal oil pumps	Etanorm SYT / RSY	Etabloc SYT / Etaline SYT
Air-conditioning systems		■		■		■	■		■	■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■	■								
Aquaculture																																				
Boiler circulation				■		■	■		■	■	■																				■	■	■			
Boiler feed applications				■		■	■		■	■	■																				■	■	■			
Chemical industry																						■	■													
Cleaning of stormwater tanks / storage sewers																																				
Condensate transport																		■	■			■	■	■	■	■	■	■	■			■	■	■			
Cooling circuits		■		■		■	■		■	■	■		■	■	■	■	■	■	■			■	■	■	■							■	■	■			
Descaling units																																				
Dewatering																		■	■			■	■	■	■	■	■	■	■	■						
Disposal																																				
District heating									■	■	■		■	■	■	■	■	■	■			■	■									■		■			
Dock facilities																		■	■																	
Domestic water supply				■		■	■																													
Drainage																																				
Drainage of pits, shafts, etc.																		■	■																■	
Dredging																																				
Fire-fighting systems																		■	■			■	■	■	■											
Flood control / coast protection (stormwater)																																				
Flue gas desulphurization																																				
Food and beverages industry													■	■	■	■	■	■	■			■	■	■	■	■	■	■	■	■					■	
Fountains																		■	■																	
Heat recovery systems				■		■	■		■	■	■		■	■	■	■	■	■	■																	
Heavy oil and coal upgrading																																				
Homogenization																																				
Hot water heating systems				■		■	■		■	■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			■		■			
Hydraulic solids transport																																				
Industrial recirculation systems		■		■		■	■		■	■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			■	■	■	■		
Irrigation																		■	■			■	■	■	■	■	■	■	■	■						
Keeping in suspension																																				
Lowering ground water levels																																				
Maintaining ground water levels																		■	■																	
Mining																																				
Mixing																																				
Nuclear power plants																																	■	■		■	
Offshore platforms																		■	■																	
Paint shops																													■							
Paper and cellulose industry																																				
Petrochemical industry																																				
Pharmaceutical industry																																				
Pipelines and tank farms																																				
Pressure boosting																																				
Process engineering																																■	■	■			
Rainwater harvesting																																				
Recirculation																		■	■																	
Refineries																																				
Seawater desalination / reverse osmosis																		■	■			■	■	■	■										■	
Sewage treatment plants																		■	■			■	■	■	■	■	■	■	■	■						
Shipbuilding																		■	■																	
Sludge disposal																																				
Sludge processing																																				
Snow guns																																				
Solar thermal energy						■	■		■	■	■																									
Spray irrigation																		■	■			■	■	■	■	■	■	■	■							
Sugar industry																																				
Swimming pools		■		■		■	■											■	■			■	■	■	■	■	■	■	■							
Thermal oil circulation																																■				
Thickening																																				
Washing plants																																				
Water extraction																		■	■			■	■													
Water supply		■		■		■	■						■	■	■	■	■	■	■			■	■	■	■	■	■	■	■							
Water treatment systems																		■	■			■	■													

Thermal oil pumps with magnetic drive or canned motor			Standardised chemical pumps				Seal-less pumps														Process pumps												Rainwater harvesting systems		
HX (Nikkiso-KSB)	HY (Nikkiso-KSB)		MegaCPK	MegaCPK Pumpdrive	CPKN		Magnochem	Magnochem-Bloc	Etaseco / Etaseco-I	Etaseco RVP	Secochem Ex	Secochem Ex K	HN (Nikkiso-KSB)	HT (Nikkiso-KSB)	HK (Nikkiso-KSB)	VN (Nikkiso-KSB)	DN (Nikkiso-KSB)				RPH	RPHb	RPH-V	RPHmdp	CTN	API series (Nikkiso-KSB)	CHTR	YNKR	CINCP / CINCN	INVCP / INVCN	RWCP / RWCN	WKTR		Hya-Rain / Hya-Rain N	Hya-Rain Eco	
									■	■	■	■	■																						Air-conditioning systems
																													■	■	■				Aquaculture
																					■			■											Boiler circulation
																											■	■							Boiler feed applications
■	■		■	■	■		■	■	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■		■	■	■	■	■		Chemical industry
																																			Cleaning of stormwater tanks / storage sewers
■	■								■	■	■	■	■	■	■						■	■		■			■	■	■	■	■				Condensate transport
			■		■		■	■	■	■	■	■	■																■						Cooling circuits
																																			Descaling units
																								■				■	■	■				Dewatering
																														■					Disposal
■	■						■	■	■	■	■	■	■			■																			District heating
																																			Dock facilities
																																			Domestic water supply
																												■	■	■				Drainage
																																			Drainage of pits, shafts, etc.
																																			Dredging
					■																														Fire-fighting systems
																																			Flood control / coast protection (stormwater)
																								■											Flue gas desulphurization
			■	■	■				■	■															■			■	■	■				Food and beverages industry
																																			Fountains
																																			Heat recovery systems
			■	■	■																■	■		■										Heavy oil and coal upgrading
																																			Homogenization
							■	■	■	■	■	■																							Hot water heating systems
																																			Hydraulic solids transport
■	■		■		■		■	■	■	■	■	■	■	■	■	■	■												■	■	■				Industrial recirculation systems
																																■	■		Irrigation
																																			Keeping in suspension
																																			Lowering ground water levels
																												■	■	■				Maintaining ground water levels
																																			Mining
																																			Mixing
■	■						■	■			■	■	■	■	■	■					■			■											Nuclear power plants
																					■	■	■	■			■	■							Offshore platforms
									■	■																		■	■	■				Paint shops
			■	■	■																■							■	■	■				Paper and cellulose industry
■	■		■	■	■		■	■			■	■	■	■	■	■	■				■	■	■	■	■	■		■	■	■	■	■		Petrochemical industry
																								■		■									Pharmaceutical industry
■	■		■	■	■		■	■			■	■	■	■	■	■	■				■	■	■	■	■	■		■	■	■	■			Pipelines and tank farms
																						■				■									Pressure boosting
■	■		■	■	■		■	■	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■	■	■	■	■	■		Process engineering
																											■		■	■	■				Rainwater harvesting
																						■	■	■	■										Recirculation
■	■		■	■	■		■	■			■	■	■	■	■	■	■				■	■	■	■		■	■	■		■				Refineries
			■	■	■																						■								Seawater desalination / reverse osmosis
																												■		■				Sewage treatment plants
																													■	■				Shipbuilding
																														■				Sludge disposal
																														■				Sludge processing
																																			Snow guns
																																			Solar thermal energy
																																■	■		Spray irrigation
			■	■	■		■	■	■	■																		■	■	■				Sugar industry
																																			Swimming pools
																					■	■		■			■								Thermal oil circulation
																																			Thickening
																												■	■	■				Washing plants
																												■	■	■				Water extraction
									■	■																		■	■	■				Water supply
			■	■	■																							■	■	■				Water treatment systems

Applications	Domestic water supply / swimming pools	Multi Eco	Multi Eco-Pro	Multi Eco-Top	Movitec VME	Ixo	Filtra N	Pressure booster systems	Hya-Solo EV	Hya-Solo D	Hya-Solo DV	Hya-Compact K	Hya-Compact VP	Hya-Eco VP	Hyamat K	Hyamat V	Hyamat VP	Hyamat IK, IV, IVP	Drainage pumps / waste water pumps	Ama-Drainer N 301, 302, 303, 358	Ama-Drainer 400/10 400/35 500/10/11	Ama-Drainer 80, 100	Ama-Porter F / S	Rotex	MK / MKY
Air-conditioning systems																									
Aquaculture																									
Boiler circulation																									
Boiler feed applications																									
Chemical industry																									
Cleaning of stormwater tanks / storage sewers																									
Condensate transport																								■	■
Cooling circuits					■																				
Descaling units																									
Dewatering																			■	■	■	■	■	■	■
Disposal																			■	■	■	■	■	■	■
District heating																									
Dock facilities																									
Domestic water supply		■	■	■	■				■	■	■	■	■	■	■	■	■								
Drainage																			■	■	■	■	■	■	■
Drainage of pits, shafts, etc.																			■	■	■	■	■		
Dredging																									
Fire-fighting systems					■																				
Flood control / coast protection (stormwater)																									
Flue gas desulphurization																									
Food and beverages industry																								■	
Fountains																				■					
Heat recovery systems																									
Heavy oil and coal upgrading																									
Homogenization																									
Hot water heating systems																									
Hydraulic solids transport																									
Industrial recirculation systems					■																				
Irrigation		■	■	■	■	■			■	■	■	■	■	■	■	■	■	■							
Keeping in suspension																									
Lowering ground water levels																									
Maintaining ground water levels																									
Mining																									
Mixing																									
Nuclear power plants																									
Offshore platforms																									
Paint shops																									
Paper and cellulose industry																						■			
Petrochemical industry																									
Pharmaceutical industry																									
Pipelines and tank farms																									
Pressure boosting				■	■				■	■	■	■	■	■	■	■	■	■							
Process engineering																									
Rainwater harvesting		■	■	■		■			■	■	■	■	■	■	■	■	■								
Recirculation																									
Refineries																									
Seawater desalination / reverse osmosis																									
Sewage treatment plants																									
Shipbuilding																									
Sludge disposal																									
Sludge processing																									
Snow guns																									
Solar thermal energy																									
Spray irrigation		■	■	■	■	■			■	■	■	■	■	■	■	■	■								
Sugar industry																									
Swimming pools							■																		
Thermal oil circulation																									
Thickening																									
Washing plants		■	■	■	■	■			■	■	■	■	■	■	■	■	■	■							
Water extraction																			■	■	■	■			
Water supply		■	■	■	■	■			■	■	■	■	■	■	■	■	■	■							
Water treatment systems		■	■	■	■	■													■	■	■		■	■	

Lifting units / pump stations											Submersible motor pumps						Submersible pumps in discharge tubes				Mixers / agitators / tank cleaning units					Pumps for solids-laden fluids		
AmaDS3	Ama-Drainer-Box	Ama-Drainer-Box Mini	mini-Compacta	Compacta	Pump Station CK 800-Eu	Ama-Porter CK Pump Station	Amaren N CK Pump Station	Evamatic-Box	Amarex N	Amarex N S 32	Amarex KRT	Amarex KRT dry-installed	Amarex KRT wet/dry-installed	Amacan K	Amacan P	Amacan S	Amamix	Amaprop	Amajet	Amaline	Sewatec / Sewabloc	KWP / KWP-Bloc	
																							Air-conditioning systems
														■	■								Aquaculture
																							Boiler circulation
																							Boiler feed applications
									■	■	■	■	■									■	Chemical industry
■									■	■	■	■	■				■		■				Cleaning of stormwater tanks / storage sewers
																							Condensate transport
															■								Cooling circuits
											■	■	■									■	Descaling units
	■	■	■	■					■	■	■	■	■	■	■	■						■	Dewatering
■	■	■	■	■	■	■	■	■	■	■	■	■	■									■	Disposal
																							District heating
																							Dock facilities
																							Domestic water supply
									■	■	■	■	■									■	Drainage
									■	■	■	■	■										Drainage of pits, shafts, etc.
																							Dredging
																							Fire-fighting systems
											■	■	■										Flood control / coast protection (stormwater)
											■		■									■	Flue gas desulphurization
									■	■	■		■									■	Food and beverages industry
																							Fountains
																							Heat recovery systems
																						■	Heavy oil and coal upgrading
																	■						Homogenization
																							Hot water heating systems
																						■	Hydraulic solids transport
																		■				■	Industrial recirculation systems
									■	■	■	■	■	■	■	■						■	Irrigation
																		■					Keeping in suspension
									■	■	■	■	■										Lowering ground water levels
									■	■	■	■	■										Maintaining ground water levels
											■											■	Mining
																	■						Mixing
																							Nuclear power plants
																							Offshore platforms
																						■	Paint shops
									■	■	■	■	■									■	Paper and cellulose industry
																							Petrochemical industry
																							Pharmaceutical industry
																							Pipelines and tank farms
																							Pressure boosting
																						■	Process engineering
															■								Rainwater harvesting
																				■			Recirculation
																							Refineries
											■		■		■	■						■	Seawater desalination / reverse osmosis
■									■	■	■	■	■	■	■		■	■		■	■	■	Sewage treatment plants
																							Shipbuilding
																					■	■	Sludge disposal
									■	■	■	■	■								■	■	Sludge processing
											■		■							■			Snow guns
																							Solar thermal energy
																							Spray irrigation
																					■	■	Sugar industry
																							Swimming pools
																							Thermal oil circulation
																	■						Thickening
									■	■	■	■	■										Washing plants
									■	■	■	■	■		■	■							Water extraction
									■	■	■	■	■	■	■	■							Water supply
									■	■	■	■	■	■	■	■						■	Water treatment systems

Applications	Slurry pumps	WBC	LSA-S / LCC-M / LCC-R	TBC	LCV	FGD	Mega	HHD / MHD	LHD	MDX	ZW	HVF	Self-priming pumps	Etaprime L / Etaprime B / BN	MZ	Submersible borehole pumps	S 100D / UPA 100C	UPA 150C	UPA 200, 200B, 250C	UPA 300, 350	UPZ, BSX-BSF	BEV	High-pressure pumps, fixed / variable speed	Movitec V / VS / VC / LHS	Movitec VCI	Movitec PumpDrive	Multitec	Multitec PumpDrive	Axially split pumps	Omega	RDLO	RDLP	Hygienic pumps	Vitachrom	Vitacast	Vitaprime	Vitastage	Vitalobe
Air-conditioning systems																	■							■	■		■	■		■	■							
Aquaculture																																						
Boiler circulation															■												■	■										
Boiler feed applications															■									■		■	■	■						■	■	■	■	■
Chemical industry															■											■	■	■		■	■							
Cleaning of stormwater tanks / storage sewers																																						
Condensate transport																											■	■		■	■							
Cooling circuits															■		■							■	■		■	■		■	■							
Descaling units		■	■	■	■			■	■		■																											
Dewatering																														■	■							
Disposal																						■																
District heating																											■	■		■	■							
Dock facilities																														■	■							
Domestic water supply																	■	■																				
Drainage																																						
Drainage of pits, shafts, etc.																																						
Dredging		■	■	■				■	■	■																												
Fire-fighting systems																	■	■	■	■		■		■		■	■	■		■	■						
Flood control / coast protection (stormwater)																																						
Flue gas desulphurization						■																												■	■	■	■	■
Food and beverages industry														■			■	■						■		■												
Fountains																	■	■	■	■		■																
Heat recovery systems																											■	■										
Heavy oil and coal upgrading																																						
Homogenization																																						
Hot water heating systems																											■	■										
Hydraulic solids transport		■	■	■	■	■	■	■	■	■	■																										
Industrial recirculation systems																								■	■	■	■	■										
Irrigation																	■	■	■	■	■	■		■		■	■	■		■	■	■						
Keeping in suspension																																						
Lowering ground water levels																	■	■	■	■	■	■																
Maintaining ground water levels																		■	■	■	■	■																
Mining		■	■	■	■	■	■	■	■	■	■	■					■	■	■	■	■																
Mixing																																						
Nuclear power plants																																						
Offshore platforms																								■														
Paint shops															■		■	■						■	■													
Paper and cellulose industry																								■		■												
Petrochemical industry																											■	■		■	■			■	■	■	■	■
Pharmaceutical industry																																						
Pipelines and tank farms																																						
Pressure boosting															■		■	■						■		■	■	■										
Process engineering																									■		■	■										
Rainwater harvesting																	■																					
Recirculation																																						
Refineries																																						
Seawater desalination / reverse osmosis																			■	■	■			■			■	■		■	■						
Sewage treatment plants														■																								
Shipbuilding															■							■					■	■		■	■						
Sludge disposal		■	■	■	■	■	■	■	■	■	■																										
Sludge processing		■	■	■	■	■	■	■	■	■	■																										
Snow guns																			■	■	■						■	■									
Solar thermal energy																																						
Spray irrigation																	■	■	■	■		■		■		■	■	■						■	■	■	■	■
Sugar industry			■		■				■		■						■	■	■																			
Swimming pools																																						
Thermal oil circulation																																						
Thickening																																						
Washing plants															■									■	■	■	■	■										
Water extraction																	■	■	■	■	■	■					■	■		■	■	■						
Water supply																	■	■	■	■	■	■		■		■	■	■		■	■	■						
Water treatment systems															■		■	■	■	■		■		■		■	■	■		■	■	■						


Pumps for power station conventional islands
CHTA / CHTC / CHTD
HGB / HGC / HGD
HGM
YNK
LUV / LUVA
WKTB
SEZ / SEZT / PHZ / PNZ
SNW / PNW
Beveron
SPY
Pumps for nuclear power plants
RER
RSR
RUV
PSR
RHD
LUV nuclear
RHM
RVM
RHR
RVR
Pumps for desalination by reverse osmosis
RPH-RO
HGM-RO
Multitec-RO
SALINO Pressure Center
Positive displacement pumps
RC / RCV
IPR
Fire-fighting systems
FFS
FFU
Automation and drives
SupremE
Monitoring and diagnostic systems
PumpMeter
Air-conditioning systems
Aquaculture
Boiler circulation
Boiler feed applications
Chemical industry
Cleaning of stormwater tanks / storage sewers
Condensate transport
Cooling circuits
Descaling units
Dewatering
Disposal
District heating
Dock facilities
Domestic water supply
Drainage
Drainage of pits, shafts, etc.
Dredging
Fire-fighting systems
Flood control / coast protection (stormwater)
Flue gas desulphurization
Food and beverages industry
Fountains
Heat recovery systems
Heavy oil and coal upgrading
Homogenization
Hot water heating systems
Hydraulic solids transport
Industrial recirculation systems
Irrigation
Keeping in suspension
Lowering ground water levels
Maintaining ground water levels
Mining
Mixing
Nuclear power plants
Offshore platforms
Paint shops
Paper and cellulose industry
Petrochemical industry
Pharmaceutical industry
Pipelines and tank farms
Pressure boosting
Process engineering
Rainwater harvesting
Recirculation
Refineries
Seawater desalination / reverse osmosis
Sewage treatment plants
Shipbuilding
Sludge disposal
Sludge processing
Snow guns
Solar thermal energy
Spray irrigation
Sugar industry
Swimming pools
Thermal oil circulation
Thickening
Washing plants
Water extraction
Water supply
Water treatment systems

Circulator / hot water service pumps, fixed speed

Riotherm® Hot water service pump

Rp	1-1¼
Q [m³/h]	max. 10
H [m]	max. 6
p [bar]	max. 10
T [°C]	-2 to +110

Data for 50 Hz operation

Design: Screw-ended glanded pump with mechanical seal and fixed speed.

Applications: Swimming pools, cooling circuits and industrial plants.

Switchgears | Reference no. 1118.5 | also available in 60 Hz

Drinking water circulator pumps, fixed speed

Rio®-Therm N Glandless circulator pump with up to 4 speed levels

Rp / DN	½ - 1¼ / 40 - 80
Q [m3/h]	max. 50
H [m]	max. 9
p [bar]	max. 10
$T_{heating\ water}$ [°C]	-10 to +110
$T_{drinking\ water}$ [°C]	up to +80 (20 °dh) up to +110 for short periods (2 h)
n [min⁻¹]	max. 2800

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with up to four speed levels.

Applications: Hot service water / drinking water supply systems.

Reference no. 1142.52 | available in 50 Hz and 60 Hz

Drinking water circulator pumps, variable speed

Rio-Eco® Therm N High-efficiency glandless circulator pump with continuously variable differential pressure control

Rp / DN	1-1¼ / 32 - 80
Q [m³/h]	max. 38
H [m]	max. 12
p [bar]	max. 10
$T_{heating\ water}$ [°C]	-10 to +110
$T_{drinking\ water}$ [°C]	+80 (20 °dH)
n [min⁻¹]	max. 3700

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with integrated frequency inverter for continuously variable differential pressure control.

Applications: Hot service water / drinking water production systems.

Reference no. 1142.51 | suitable for 50 and 60 Hz operation

Factory-automated Automation possible

Drinking water circulator pumps, variable speed

Calio Therm S High-efficiency glandless circulator pump with continuously variable differential pressure control

Rp	1 - 1¼
Q [m³/h]	max. 3.5
H [m]	max. 6
p [bar]	max. 10
$T_{heating\ water}$ [°C]	+5 to +95
$T_{drinking\ water}$ [°C]	+80 (20 °dH)
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with integrated frequency inverter for continuously variable differential pressure control.

Applications: Drinking water circulation / production systems.

Reference no. 1157.81 — suitable for 50 and 60 Hz operation

Circulator pumps, variable speed

Calio S High-efficiency glandless circulator pump with continuously variable differential pressure control

Rp	½ - 1¼
Q [m³/h]	max. 3.5
H [m]	max. 6
p [bar]	max. 10
T [°C]	+5 to +95
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with integrated frequency inverter for continuously variable differential pressure control.

Applications: Systems for heating / ventilation / air-conditioning / heat recovery / cooling as well as industrial recirculation.

Reference no. 1157.81 — suitable for 50 and 60 Hz operation

Calio High-efficiency glandless circulator pump with continuously variable differential pressure control

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 [min⁻¹]	max. 3660

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with integrated frequency inverter for continuously variable differential pressure control.

Applications: Systems for heating / ventilation / air-conditioning / heat recovery / cooling as well as industrial recirculation.

Reference no. 1157.82 — suitable for 50 and 60 Hz operation

Rio-Eco® Z N High-efficiency glandless twin circulator pump with continuously variable differential pressure control

DN	32 - 80
Q [m³/h]	max. 46
H [m]	max. 14
p [bar]	max. 10
T [°C]	-10 to +110
n [min⁻¹]	max. 3550

Data for 50 Hz operation

Design: Maintenance-free glandless circulator pump with integrated frequency inverter for continuously variable differential pressure control.

Applications: Systems for heating/ventilation/air-conditioning/heat recovery/cooling as well as industrial recirculation.

Reference no. 1140.51 — suitable for 50 and 60 Hz operation

Factory-automated

In-line pumps with fixed / variable speed drive

Etaline® In-line pump

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

Data for 50 Hz operation

Design: Close-coupled, in-line circulator pump with volute casing and standardised motor.

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

PumpMeter, Hyamaster, LevelControl, Switchgears | Reference no. 1159.5 | also available in 60 Hz

Etaline® Z In-line twin pump

DN	32 - 200
Q [m³/h]	max. 1120
H [m]	max. 38
p [bar]	max. 16
T [°C]	-30 to +140

Data for 50 Hz operation

Design: Close-coupled, in-line twin circulator pump; pump shaft and motor shaft are rigidly coupled.

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

PumpMeter, Hyamaster, LevelControl, Switchgears | Reference no. 1148.5 | also available in 60 Hz

Etaline® PumpDrive In-line pump with motor-mounted variable speed system

DN	32 - 200
Q [m³/h]	max. 788
H [m]	max. 100
p [bar]	max. 16
T [°C]	-10 to +140
n [min⁻¹]	max. 4200

Design: Close-coupled in-line circulator pump with motor-mounted variable speed system; pump shaft and motor shaft are rigidly coupled.

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

PumpMeter, BOA-Systronic | Reference no. 1149.52 | also suitable for 60 Hz operation

Etaline® Z PumpDrive In-line pump with motor-mounted variable speed system

DN	32 - 200
Q [m³/h]	max. 990
H [m]	max. 38
p [bar]	max. 16
T [°C]	-10 to +140
n [min⁻¹]	max. 2100

Design: Close-coupled in-line circulator pump, in twin pump design with motor-mounted variable speed system; pump shaft and motor shaft are rigidly coupled. Dual pump modules (accessories) enable redundant operation of Etaline Z without a higher-level controller.

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

PumpMeter, BOA-Systronic | Reference no. 1154.51 | also suitable for 60 Hz operation

Etaline®-R In-line pump

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

Data for 50 Hz operation

Design: Vertical close-coupled, in-line circulator pump with volute casing and standardised motor.

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

PumpMeter, PumpDrive, Hyamaster, Switchgears | Reference no. 1146.51 | also available in 60 Hz

Factory-automated Automation possible

In-line pumps with fixed / variable speed drive

ILN / ILNE / ILNS In-line pump

DN	65 - 400
Q [m³/h]	max. 3100
H [m]	max. 112
p [bar]	max. 16
T [°C]	-20 to +70
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Vertical in-line centrifugal pump with closed impeller and mechanical seal. ILNS fitted with an auxiliary vacuum pump and ILNE with ejector. Process design allows removal of the impeller without removing the pipes and the motor.

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

PumpMeter, PumpDrive, Hyamaster, Switchgear

also suitable for 60 Hz operation

ILNC / ILNCE / ILNCS In-line pump

DN	32 - 125
Q [m³/h]	max. 370
H [m]	max. 112
p [bar]	max. 16
T [°C]	-20 to +70
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Closed-coupled vertical in-line centrifugal pump with electric motor, closed impeller and mechanical seal. ILNCS fitted with an auxiliary vacuum pump and ILNCE with ejector. Standardised IEC motor.

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

PumpMeter, PumpDrive, Hyamaster, Switchgear

also suitable for 60 Hz operation

Standardised/close-coupled pumps, fixed/var. speed

Etanorm® / Etanorm®-R Standardised pump

DN	32 - 300
Q [m³/h]	max. 1900
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +140

Data for 50 Hz operation

Design: Horizontal, long-coupled, single-stage volute casing pump (pump size 125 - 500 with two stages) with ratings and main dimensions to EN 733, 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 of hot water, cooling water, fire-fighting water, oil, brine, drinking water, brackish water, service water, etc.

PumpMeter, Hyamaster

Reference no. 1311.5 (Etanorm) + 1211.5 also available in 60 Hz

Etanorm® PumpDrive Standardised pump with motor-mounted variable speed system

DN	25 - 150
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +140
n [min⁻¹]	max. 4200

Design: Horizontal, long-coupled, single-stage volute casing pump in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings and motor-mounted variable speed system.

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

PumpMeter

Reference no. 1311.5 (Etanorm) + 4070.5

Etabloc® Close-coupled pump

DN	25 - 150
Q [m³/h]	max. 612
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +140

Data for 50 Hz operation

Design: Close-coupled, single-stage volute casing pump, ratings to EN 733, with replaceable shaft sleeve and casing wear rings. ATEX-compliant version available.

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

PumpMeter, Hyamaster

Reference no. 1167.5 also available in 60 Hz

Etabloc® PumpDrive Close-coupled pump with motor-mounted variable speed system

DN	25 - 150
Q [m³/h]	max. 660
H [m]	max. 101
p [bar]	max. 16
T [°C]	max. +110
n [min⁻¹]	max. 4200

Design: Close-coupled, single-stage volute casing pump, ratings to EN 733, with replaceable shaft sleeve and casing wear rings and motor-mounted variable speed system.

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

PumpMeter

Reference no. 1167.5 + 4070.5

Etachrom® BC Close-coupled chrome steel pump

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110

Data for 50 Hz operation

Design: Close-coupled, horizontal, single-stage 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 and water supply systems, heating and air-conditioning systems, fire-fighting systems, condensate transport, swimming pools, handling of hot water, cooling water, fire-fighting water, oil, drinking water, cleaning agents, service water.

PumpMeter, Hyamaster

Reference no. 1213.5 also available in 60 Hz

Factory-automated Automation possible

Standardised/close-coupled pumps, fixed/var. speed

Etachrom® BC PumpDrive Close-coupled chrome steel pump with motor-mounted variable speed system

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110
n [min⁻¹]	max. 3600

Design: Close-coupled, horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system.

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

PumpMeter

Reference no. 1213.5 + 4070.5

Etachrom® NC Standardised chrome steel pump

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110

Data for 50 Hz operation

Design: 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, spray irrigation, irrigation and drainage systems, heating and air-conditioning systems, fire-fighting systems, handling of drinking water, service water, hot water, cooling water, swimming pool water, fire-fighting water, condensate, oil and cleaning agents.

PumpMeter, Hyamaster

Reference no. 1212.5

also available in 60 Hz

Etachrom® NC PumpDrive Standardised chrome steel pump with motor-mounted variable speed system

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110
n [min⁻¹]	max. 3600

Design: Horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system.

Applications: Water supply, spray irrigation, irrigation and drainage systems, heating and air-conditioning systems, fire-fighting systems, handling of drinking water, service water, hot water, cooling water, swimming pool water, fire-fighting water, condensate, oil and cleaning agents.

PumpMeter

Reference no. 1212.5 + 4070.5

Etanorm® GPV / CPV Vertical low-pressure pump

DN	32 - 150
Q [m³/h]	max. 660
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +95

Data for 50 Hz operation

Design: Single-stage volute casing pump, ratings to EN 733, for vertical installation in closed tanks under atmospheric pressure. Up to an immersion depth of 2000 mm.

Applications: Handling of neutral degreasing and phosphatizing solutions, wash water with degreasing agents, dipping paints, etc.

Reference no. 1214.5

also available in 60 Hz

Hot water pumps

HPK-L® Heat transfer liquid / hot water recirculation pump without external cooling

DN	25 - 250
Q [m³/h]	max. 1130
H [m]	max. 155
p [bar]	max. 40
T [°C]	max. +240 / +400

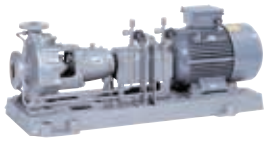
Data for 50 Hz operation

Design: 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: Handling of 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.

PumpDrive, Hyamaster | Reference no. 1136.5 | also available in 60 Hz

HPK® Heat transfer liquid / hot water recirculation pump



DN	150 - 400
Q [m³/h]	max. 4150
H [m]	max. 185
p [bar]	max. 40
T [°C]	max. +400

Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. TÜV certification to TRD on option. ATEX-compliant version available.

Applications: Handling of 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.

PumpDrive, Hyamaster | Reference no. 1121.51 | also available in 60 Hz

HPH® Hot water recirculation pump

DN	40 - 350
Q [m³/h]	max. 2350
H [m]	max. 225
p [bar]	max. 110
T [°C]	max. +320

Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design, single-stage, single-entry, with centreline pump feet and radial impeller. TÜV certification to TRD on option. ATEX-compliant version available.

Applications: Handling of hot water in high-pressure hot water generation plants and for use as boiler feed or recirculation pump.

Hyamaster | Reference no. 1122.5 | also available in 60 Hz

Automation possible

Hot water / thermal oil pumps

Etanorm® SYT / RSY Hot water / thermal oil pump

DN	32 - 300
Q [m³/h]	max. 1900
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +350

Data for 50 Hz operation

Design: Horizontal, long-coupled volute casing pump in back pull-out design with ratings and main dimensions to EN 733, single-stage, with replaceable casing wear rings. ATEX-compliant version available.

Applications: Heat transfer systems (DIN 4754, VDI 3033) or hot water recirculation (DIN 4752).

Hyamaster | Reference no. 1220.5 | also available in 60 Hz

Etabloc® SYT / Etaline® SYT Hot water / thermal oil pump

DN	32 - 100
Q [m³/h]	max. 280
H [m]	max. 67
p [bar]	max. 16
T [°C]	max. +350

Data for 50 Hz operation

Design: Horizontal, single-stage volute casing pump in back pull-out design with ratings and main dimensions to EN 733, or in in-line design, with replaceable casing wear rings.

Applications: Heat transfer systems (DIN 4754) or hot water recirculation.

Hyamaster | Reference no. 1172.5 | also available in 60 Hz

Thermal oil pumps with mag-drive or canned motor

HX (Nikkiso-KSB)* Thermal oil pump with explosion protection

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

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

Applications: Handling of thermal oils and other hot fluids in heat transfer systems to DIN 4754.

also available in 60 Hz

HY (Nikkiso-KSB)* Thermal oil pump with explosion protection

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

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

Applications: Handling of thermal oils and other hot fluids in heat transfer systems to DIN 4754.

also available in 60 Hz

Automation possible

*Only available in Europe, Russia, Middle East and Africa

Standardised chemical pumps

MegaCPK Standardised chemical pump with two bearing bracket variants

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

Data for 50 Hz operation

Design: 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 variant with "wet" shaft and conical seal chamber. ATEX-compliant version available.

Applications: Handling of aggressive liquids in the chemical and petrochemical industries as well as in refineries.

PumpMeter, PumpDrive | Reference no. 2731.5 | also available in 60 Hz

MegaCPK PumpDrive / PumpMeter Standardised chemical pump with two bearing bracket variants

DN	25 - 250
Q [m³/h]	max. 1150
H [m]	max. 162
p [bar]	max. 25
T [°C]	max. +140
n [min-1]	max. 3600

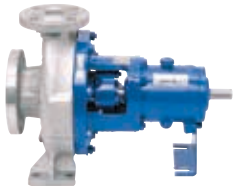
Data for 50 Hz operation

Design: 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 variant with "wet" shaft and conical seal chamber. ATEX-compliant version available.

Applications: Handling of aggressive liquids in the chemical and petrochemical industries as well as in refineries.

Reference no. 2731.5 + 4070.5 | also available in 60 Hz

CPKN Standardised chemical pump with reinforced bearing bracket



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

Data for 50 Hz operation

Design: 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 variant with "wet" shaft, conical seal chamber and/or semi-open impeller (CPKNO). ATEX-compliant version available.

Applications: Handling of aggressive liquids in the chemical and petrochemical industries as well as in refineries and fire-fighting systems, handling of brine.

PumpMeter, PumpDrive | Reference no. 2730.5 | also available in 60 Hz

Seal-less pumps

Magnochem® Standardised chemical pump with mag-drive

DN	25 - 160
Q [m³/h]	max. 1160
H [m]	max. 162
p [bar]	max. 40
T [°C]	-90 to +300

Data for 50 Hz operation

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

Applications: Handling of aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industry.

Hyamaster | Reference no. 2739.5 | also available in 60 Hz

Factory-automated Automation possible

Seal-less pumps

Magnochem®-Bloc Close-coupled chemical pump with mag-drive

DN	25 - 160
Q [m³/h]	max. 754
H [m]	max. 162
p [bar]	max. 25
T [°C]	max. +250

Data for 50 Hz operation

Design: Horizontal, seal-less, close-coupled, mag-drive volute casing pump to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. ATEX-compliant version available.

Applications: Handling of aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industry.

Hyamaster | Reference no. 2749.5 | also available in 60 Hz

Etaseco® / Etaseco®-I Standardised water pumps with canned motor

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

Data for 50 Hz operation

Design: Horizontal / 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, pump casing connecting dimensions to EN 733.

Applications: Handling of aggressive, flammable, toxic, volatile, or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

PumpMeter, Hyamaster, PumpDrive | Reference no. 2935.5 | also available in 60 Hz

Etaseco® RVP Cooling circuit pump with canned motor

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

Design: Horizontal / 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: Pump for handling toxic, volatile or valuable fluids in environmental and industrial engineering and for use as a coolant pump in cooling systems. Transport vehicles, environmental and industrial engineering; applications where low noise emission, smooth running or long service intervals are required.

PumpMeter, PumpDrive | Reference no. 2935.17 | also available in 60 Hz

Secochem® Ex Standardised chemical pump with canned motor and explosion protection

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

Data for 50 Hz operation

Design: 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 ISO 2858. Design to ATEX.

Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

Hyamaster | Reference no. 2939.5 | also available in 60 Hz

Secochem® Ex K Standardised chemical pump with canned motor and explosion protection

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

Data for 50 Hz operation

Design: 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, pump casing connecting dimensions to ISO 2858, with external cooler. Design to ATEX.

Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

Hyamaster | Reference no. 2939.51 | also available in 60 Hz

Automation possible

Seal-less pumps

HN (Nikkiso-KSB)* Chemical canned motor pump with explosion protection

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

Data for 50 Hz operation

Design: 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: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry.

also available in 60 Hz

HT (Nikkiso-KSB)* Chemical canned motor pump with explosion protection for special applications

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

Data for 50 Hz operation

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

Applications: Handling of aggressive, solids-containing, polymerizing, flammable, explosive, toxic, volatile or valuable liquids as well as thermal oils in the chemical and petrochemical industry.

also available in 60 Hz

HK (Nikkiso-KSB)* Two-stage canned motor pump with explosion protection

DN	25 - 40
Q [m³/h]	max. 10
H [m]	max. 300
p [bar]	max. 40
T [°C]	max. +150
n [min^{-1}]	max. 8400

Data for n = 8400 min^{-1}

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

Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. For small flow rates, high discharge heads and low $NPSH_R$.

high speed, up to 130 Hz

VN (Nikkiso-KSB)* Multistage canned motor pump with explosion protection

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

Data for 50 Hz operation

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

Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. For high discharge heads.

also available in 60 Hz

DN (Nikkiso-KSB)* Self-priming canned motor pump with explosion protection

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

Data for 50 Hz operation

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

Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. Self-priming pump for draining of tanks and unloading of tanks and tank trucks.

also available in 60 Hz

*Only available in Europe, Russia, Middle East and Africa

Process pumps

RPH® OH2 process pump to API 610

DN	25 - 400
Q [m³/h]	max. 4150
H [m]	max. 270
p [bar]	max. 51
T [°C]	max. +450

Data for 50 Hz operation

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

Applications: Refineries, petrochemical and chemical industry, power stations.

Hyamaster

Reference no. 1312.5 / 1316.51 also available in 60 Hz

RPHb BB2 process pump to API 610

DN	50 - 150
Q [m³/h]	max. 450
H [m]	max. 400
p [bar]	max. 100
T [°C]	max. +450

Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to API 610 and / or VDMA 24 297, Class A (heavy-duty), with radial impeller, single-entry, two-stage design, back-to-back impeller arrangement, centreline pump feet.

Applications: Refineries, petrochemical and chemical industry.

also available in 60 Hz

RPH-V VS4 process pump to API 610

DN	40 - 150
Q [m³/h]	max. 80
H [m]	max. 240
p [bar]	max. 35
T [°C]	max. +230

Data for 50 Hz operation

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

Applications: Refineries, petrochemical and chemical industry.

also available in 60 Hz

RPHmdp Standardised chemical pump with mag-drive to API 685

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

Data for 50 Hz operation,
suitable for 50 and 60 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to API 685, ISO 13709 (heavy-duty), single-stage, single-entry, with radial impeller and centreline pump feet; with inducer, if required. ATEX-compliant.

Applications: Refineries, petrochemical and chemical industry, power stations.

Reference no. 1316.27/01/1316.8017/01/1316.57/01 available in 50 Hz and 60 Hz

CTN Chemical vertical shaft submersible pump

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,
suitable for 50 and 60 Hz operation

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

Applications: Handling of chemically aggressive liquids, also slightly contaminated or with a low solids content, in the chemical and petrochemical industry.

Reference no. 2711.5 available in 50 Hz and 60 Hz

Automation possible

Process pumps

API series (Nikkiso-KSB)* Refinery pump

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

Data for 50 Hz operation

Design: Horizontal or vertical canned motor pump to API 685, single-stage, with centreline pump feet; also available with inducer.

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

also available in 60 Hz

CHTR BB5 high-pressure pump to API 610

DN	50 - 150
Q [m³/h]	max. 900
H [m]	max. 2500
p [bar]	max. 250
T [°C]	max. +400
n [min⁻¹]	max. 7000

Data for 50 Hz operation,
higher values available upon request

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

Applications: In refineries, in the petrochemical industry and in steam generation plants.

Reference no. 2701 also available in 60 Hz

YNKR BB2 process pump to API 610

DN	125 - 500
Q [m³/h]	max. 3800
H [m]	max. 390
p [bar]	max. 60
T [°C]	max. +400
n [min⁻¹]	max. 3600

Data for 50 Hz operation,
higher values available upon request

Design: Horizontal, radially split, single-stage, double-entry pump with single or double volute casing made of cast steel, in accordance with API 610.

Applications: In refineries, in the petrochemical industry, solarthermal power plants and in steam generation plants.

Reference no. 1139.21 also available in 60 Hz

CINCP / CINCN Vertical immersion pump for sumps and tanks

DN	32 - 200
Q [m³/h]	max. 780
H [m]	max. 105
p [bar]	max. 10
T [°C]	-10 to +100
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Centrifugal vertical sump pump in cantilever design, for wet or dry well installation. Semi-open impeller, pump shaft without guide bearing, 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 industry, raw materials extraction processes and waste water management.

Hyamaster also suitable for 60 Hz operation

INVCP / INVCN Vertical immersion pump for sumps and tanks

DN	32 - 300
Q [m³/h]	max. 1600
H [m]	max. 116
p [bar]	max. 10
T [°C]	-10 to +100
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Centrifugal vertical sump pump, for wet or dry well 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: Handling of chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.

Hyamaster also suitable for 60 Hz operation

Automation possible

*Only available in Europe, Russia, Middle East and Africa

Process pumps

RWCP / RWCN Vertical immersion pump for sumps and tanks

DN	50 - 200
Q [m³/h]	max. 700
H [m]	max. 100
p [bar]	max. 16
T [°C]	-10 to +100
n [min⁻¹]	max. 3000

Data for 50 Hz operation

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

Applications: Refineries, chemical and petrochemical industry, steel factories, descaling systems, raw materials extraction processes and waste water management.

Hyamaster

also suitable for 60 Hz operation

WKTR VS6 condensate pump to API 610

DN	40 - 150
Q [m³/h]	max. 400
H [m]	max. 500
p [bar]	max. 51
Install. depth [m]	1.6
T [°C]	max. 200
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: 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: Pumping of condensate and other NPSH critical products in industrial systems, particularly in refineries and petrochemical plants.

Reference no. 1765.11

also available in 60 Hz

Rainwater harvesting systems

Hya-Rain® / Hya-Rain® N Rainwater harvesting system with one pump

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

Data for 50 Hz operation

Design: Ready-to-connect package rainwater harvesting system. Automatic mains water back-up if the rain water storage tank is empty, with integrated dry-running protection. Automated with automatic control unit.

Applications: Rainwater and service water utilization, irrigation and spray irrigation systems.

Reference no. 5602.51

Hya-Rain® Eco Rainwater harvesting system with one pump

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

Data for 50 Hz operation

Design: Ready-to-connect package rainwater harvesting system. Automatic mains water back-up function if the rain water storage tank is empty, with integrated dry-running protection.

Applications: Rainwater and service water utilization, irrigation and spray irrigation systems.

Reference no. 5605.5

Factory-automated Automation possible

Domestic water supply / swimming pools

Multi Eco® Multistage, self-priming centrifugal pump

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

Design: Multistage, self-priming centrifugal pump in close-coupled design.

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

Controlmatic, Cervomatic

Reference no. 5180.5

Multi Eco®-Pro Multistage, self-priming centrifugal pump with automatic control unit

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

Design: Multistage, self-priming centrifugal pump in close-coupled design, with power cable, plug and Controlmatic E automatic control unit switching the pump on and off as consumers are opened / closed and protecting the pump against dry running. Automated with automatic control unit.

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

Reference no. 5182.5

Multi Eco®-Top Domestic water supply system

Rp	1 - 1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 7
T [°C]	max. +50
n [min⁻¹]	max. 2800

Design: Multistage, self-priming centrifugal pump in close-coupled design incl. accumulator with replaceable membrane in drinking water quality, total volume 20 or 50 l, pressure switch for automatic pump operation and 1.5 m power cable. Automated with automatic control unit.

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

Reference no. 5181.5

Movitec® VME High-pressure in-line pump in close-coupled design

Rp	1½
Q [m³/h]	max. 9
H [m]	max. 48
p [bar]	max. 16
T [°C]	max. +60
n [min⁻¹]	max. 2900

Data for 50 Hz operation

Design: 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 and irrigation systems, washing plants, water supply and rainwater harvesting systems, pressure boosting, hot water and cooling water recirculation, fire-fighting systems.

PumpMeter, Hyamaster

Reference no. 1798.5

also available in 60 Hz

Ixo Submersible motor pump

Rp	1¼
Q [m³/h]	max. 8
H [m]	max. 65
T [°C]	max. +35
n [min⁻¹]	max. 2900

Design: Fully or partly submerged, multistage, close-coupled centrifugal pump (min. immersion depth 0.1 m), low-level inlet, suction strainer with a max. mesh size of 2.5 mm.

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

Switchgears, Cervomatic

Reference no. 2146.5

Factory-automated Automation possible

Domestic water supply / swimming pools

Filtra N Recirculating pump for swimming pool filtering systems

Rp	2
Q [m³/h]	max. 36
H [m]	max. 21
p [bar]	max. 2.5
T [°C]	max. +35
n [min⁻¹]	max. 2800

Design: Self-priming, single-stage, close-coupled centrifugal pump.

Applications: Handling of clean or slightly contaminated water, swimming pool water with a chlorine content of up to 0.3 %, ozonized swimming pool water with a salt content of up to 7 ‰.

Reference no. 2127.5

Pressure booster systems

Hya®-Solo EV Pressure booster system, 1 pump, with continuously variable speed control

Rp	1¼ / 1½
Q [m³/h]	max. 6
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60

Data for 50 Hz operation, data for 2900 min⁻¹

Design: Fully automatic package pressure booster system, with 1 vertical high-pressure pump and continuously variable speed adjustment. Configuration and function to DIN 1988-500.

Applications: Residential buildings, hospitals, office buildings, hotels, department stores, industry, and other applications.

Reference no. 1951.53

Hya®-Solo D Pressure booster system, 1 pump

Rp / DN	1¼ / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package single-pump system with 8 l membrane-type accumulator, pressure-controlled starting and stopping.

Applications: For industrial plants, water supply systems for residential and office buildings, irrigation / spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1951.5

Hya®-Solo DV Pressure booster system, 1 pump

Rp / DN	1¼ / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min⁻¹

Design: Fully automatic variable-speed package single-pump system with PumpDrive, pressure-controlled starting and flow-controlled stopping. Automated with PumpDrive.

Applications: For industrial plants, water supply systems for residential and office buildings, irrigation / spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1951.5

Factory-automated

Pressure booster systems

Hya®-Compact K Pressure booster system, 2 pumps

Rp / DN	1¼ / 40
Q [m³/h]	max. 10
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +40

Data for 50 Hz operation, data for 2900 min^{-1}

Design: Fully automatic package pressure booster system with integrated standby pump. Two vertical high-pressure pumps in cascade operation, automated with BoosterControl Advanced. Integrated pressure transmitter for the suction and discharge side, respectively. Two standard volt-free changeover contacts for fault indication as standard. Configuration and function to DIN 1988-500. Stationary floor-mounted or wall-mounted installation.

Applications: For industrial plants, water supply systems for residential and office buildings, irrigation/spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1972.5

Hya®-Compact VP Pressure booster system, 2 pumps

Rp / DN	1¼ / 40
Q [m³/h]	max. 10
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +40

Data for 50 Hz operation, data for 2900 min^{-1}

Design: Fully automatic package pressure booster system with integrated standby pump. Two vertical high-pressure pumps with continuously variable speed adjustment by BoosterControl Advanced. Two standard volt-free changeover contacts integrated for fault indication. Configuration and function to DIN 1988-500. Stationary floor-mounted or wall-mounted installation.

Applications: For industrial plants, water supply systems for residential and office buildings, irrigation / spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1972.5

Hya®-Eco VP Pressure booster system with continuously variable speed control of each pump

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

Data for 3500 min^{-1}

Design: Fully automatic package pressure booster system, with 2 or 3 vertical high-pressure pumps and continuously variable speed adjustment of each pump for fully electronic control of the required supply pressure, with two standard volt-free changeover contacts for fault indication. Configuration and function to DIN 1988-500. Automated with BoosterControl Advanced.

Applications: Residential buildings, hospitals, office buildings, hotels, department stores, industry, and other applications.

Reference no. 1967.52

Hyamat® K Pressure booster system, 2 to 6 pumps

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package pressure booster system, with 2 to 6 vertical high-pressure pumps, 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, configuration and functions to DIN 1988-500. Automated with BoosterControl Advanced.

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

Reference no. 1952.5

Hyamat® V Pressure booster system with continuously variable speed adjustment of one pump

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min^{-1}

Design: 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. Configuration and functions to DIN 1988-500. Automated with BoosterControl Advanced.

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

Reference no. 1953.51

Factory-automated

Pressure booster systems

Hyamat® VP Pressure booster system with continuously variable speed control of each pump

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min⁻¹

Design: Fully automatic package pressure booster system, with 2 to 6 vertical high-pressure pumps and continuously variable speed control of each pump by PumpDrive speed control system. For fully electronic control of the required supply pressure. Configuration and functions to DIN 1988-500.
Automated with BoosterControl Advanced and PumpDrive.

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

Reference no. 1953.52

Hyamat® IK, IV, IVP Pressure booster system for industrial applications

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

Design: Fully automatic package pressure booster system, with 2 to 4 vertical high-pressure pumps and fully electronic control to ensure the required supply pressure, configuration and functions to DIN 1988-500. Automated with PLC.

Applications: Handling of service water and cooling water not chemically or mechanically aggressive to the pump materials in industry, etc.

Reference no. 1950.5

Drainage pumps / waste water pumps

Ama-Drainer® N 301, 302, 303, 358 Submersible motor pump

Rp	1¼ - 1½
Q [m³/h]	max. 16.5
H [m]	max. 12
T [°C]	max. +50 (301, 302, 303)
	max. +35 (358)

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 2 m.

Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs.

Switchgears, LevelControl

Reference no. 2331.51 / 2331.52

Ama-Drainer® 400/10 400/35 500/10/11 Submersible motor pump

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

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 10 m.

Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs, disposal of highly contaminated, fibre-containing water.

Switchgears, LevelControl

Reference no. 2331.53

Drainage pumps / waste water pumps

Ama-Drainer® 80, 100 Submersible motor pump

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

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 10 m.

Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs.

Switchgears, LevelControl

Reference no. 2331.54

Ama-Porter® F / S Submersible motor pump

DN	50 - 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40

Data for 50 Hz operation

Design: Vertical, fully floodable submersible waste water pump in close-coupled design (cast iron variant), single-stage, without explosion protection.

Applications: Handling of all types of waste water.

Switchgears, LevelControl

Reference no. 2539.51

Rotex® Waste water pump

Rp	1¼ - 2
Q [m³/h]	max. 24
H [m]	max. 14
Install. depth [m]	max.1.7
T [°C]	max. +90
n [min⁻¹]	max. 2900

Data for 50 Hz operation

Design: Vertical, single-stage centrifugal pump with discharge to the top and parallel with the pump shaft, pump foot designed as suction strainer. Pump and motor are rigidly connected by a support pipe, ready to be plugged in, with 1.5 m power cable and level switch.

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

Reference no. 2322.5

MK / MKY Waste water, condensate and heat transfer liquid pump

Rp / DN	2 / 50
Q [m³/h]	max. 36
H [m]	max. 19
Install. depth [m]	max. 2.8
T [°C]	max. +200
n [min⁻¹]	max. 3500

Data for 50 Hz operation

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

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

Switchgears, LevelControl

Reference no. 2324.5

Automation possible

Lifting units / pump stations

AmaDS³ Waste water pump station with solids separation system

Inflow rate [m³/h]	6 - 200
H [m]	max. 85
T [°C]	depending on pump
n [min⁻¹]	depending on pump
Viscosity [cP]	depending on pump

Higher values available upon request

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

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

LevelControl

Reference no. 2581 / 2567.021

Ama-Drainer-Box Automatic waste water lifting unit

DN	40 - 50
Q [m³/h]	max. 46
H [m]	max. 24
T [°C]	max. +40

Data for 50 Hz operation

Design: Stable above-floor or impact-resistant underfloor plastic collecting tank with floor drain and odour trap, both variants with Ama-Drainer submersible motor pump starting and stopping automatically and swing check valve. Automated with switchgear and LevelControl. Volumetric tank content: 100 or 200 litres. To EN 12050.

Applications: Washbasins, showers, washing machines, garage gateways, basements, rooms at risk of flooding, etc.

Reference no. 2336.51

Ama-Drainer-Box Mini Automatic waste water lifting unit

DN	40
Q [m³/h]	max. 10
H [m]	max. 6.5
T [°C]	max. +35

Data for 50 Hz operation

Design: Reliable and compact waste water lifting unit in a modern design with activated carbon filter meeting hygiene requirements and with shower connection as a standard. To EN 12050-2.

Applications: Automatic drainage of washbasins, showers, washing machines, dishwashers, etc.

Reference no. 2336.52

mini-Compacta Floodable sewage lifting unit

DN	32 - 100
Q [m³/h]	max. 36
H [m]	max. 25
T [°C]	max. +40 up to +65 for short periods

Data for 50 Hz operation

Design: Floodable single-pump or dual-pump sewage lifting unit for automatic disposal of domestic sewage and faeces below the flood level. Automated with LevelControl.

Applications: Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, etc.

Reference no. 2317.54

Compacta® Floodable sewage lifting unit

DN	80 - 100
Q [m³/h]	max. 140
H [m]	max. 24
T [°C]	max. +40 up to +65 for short periods

Data for 50 Hz operation

Design: Floodable single-pump or dual-pump sewage lifting unit for automatic disposal of sewage and faeces below the flood level. Automated with LevelControl.

Applications: Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, public buildings, industrial plants, joint sewage disposal for rows of houses, etc.

Reference no. 2317.55

Factory-automated Automation possible

Lifting units / pump stations

CK 800-Eu Pump Station Pump station, plastic collecting tank with Amarex N S and Ama-Porter S

DN	32 - 50
Q [m³/h]	max. 22
H [m]	max. 49
T [°C]	max. +40

Data for 50 Hz operation

Design: Ready-to-connect package single or dual pump station with PE-LLD (polyethylene) collecting tank for underground installation. Equipped with one or two Amarex N S and Ama-Porter S submersible waste water pumps without explosion protection. Collecting tank design to DIN 1986-100 and EN 752 / EN 476. Automated with LevelControl.

Applications: Renovation of premises, sewage disposal in various sectors, joint sewage disposal for several residential units, pumped drainage.

Reference no. 2334.543

Ama-Porter CK Pump Station Pump station, plastic collecting tank with Ama-Porter F

DN	50 - 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40

Data for 50 Hz operation

Design: Ready-to-connect package single or dual pump station with PE-LLD (polyethylene) collecting tank for underground installation. Equipped with one or two Ama-Porter F submersible waste water pumps without explosion protection. Collecting tank design to DIN 1986-100 and EN 752 / EN 476. Automated with switchgears and LevelControl.

Applications: Renovation of premises, sewage disposal in various sectors, joint sewage disposal for several residential units, pumped drainage.

Reference no. 2334.51

Amarex N CK Pump Station Pump station, plastic collecting tank with Amarex N F

DN	50 - 65
Q [m³/h]	max. 50
H [m]	max. 39
T [°C]	max. +40

Data for 50 Hz operation

Design: Ready-to-connect package single or dual pump station with PE-LLD (polyethylene) collecting tank for underground installation. Equipped with one or two Amarex N F submersible waste water pumps, also available with explosion protection. Collecting tank design to DIN 1986-100 and EN 752 / EN 476. Automated with LevelControl.

Applications: Renovation of premises, sewage disposal in various sectors, joint sewage disposal for several residential units, pumped drainage.

Reference no. 2334.52

Evamatic-Box Sewage lifting unit

DN	50 - 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40

Data for 50 Hz operation

Design: Single-pump or dual-pump sewage lifting unit with one or two Ama-Porter submersible waste water pumps with free-flow impeller (F) or cutter (S), to EN 12050-1.

Applications: Disposal of domestic waste water and sewage.

Reference no. 2319.51

Factory-automated

Submersible motor pumps

Amarex® N S32 Submersible motor pump DN 32

DN	32
Q [m³/h]	max. 16.5
H [m]	max. 29.5
T [°C]	max. +40

Data for 50 Hz operation

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

Applications: Handling of all types of waste water, especially untreated sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge, dewatering / water extraction, drainage of rooms and surfaces subject to a flooding risk.

Switchgears, LevelControl

Reference no. 2563.51

Amarex® N Submersible motor pump DN 50 to 100

DN	50 - 100
Q [m³/h]	max. 190
H [m]	max. 49
T [°C]	max. +60

Data for 50 Hz operation

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

Applications: Handling of all types of waste water, especially untreated sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge, dewatering / water extraction, drainage of rooms and surfaces subject to a flooding risk.

Switchgears, LevelControl

Reference no. 2563.5 also available in 60 Hz

Amarex® KRT® Submersible motor pump DN 40 to DN 700

DN	40 - 700
Q [m³/h]	max. 10080
H [m]	max. 120
T [°C]	max. +60
n [min⁻¹]	max. 2900

Data for 50 Hz operation

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

Applications: Handling of all types of abrasive or aggressive waste water in water and waste water engineering as well as industry, especially untreated sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge; seawater desalination.

PumpDrive, Hyamaster, Amacontrol, Switchgears, LevelControl

Reference no. 2553.5 also available in 60 Hz

Amarex® KRT® dry-installed, with cooling jacket Submersible motor pump DN 100 to DN 700

DN	100 - 700
Q [m³/h]	max. 10080
H [m]	max. 120
p [bar]	max. 10
T [°C]	max. +40
n [min⁻¹]	max. 1450

Data for 50 Hz operation

Design: Vertical, single-stage submersible motor pump in close-coupled design, various impeller types, dry installation.

Applications: Handling of all types of waste water in waste water engineering and industry, especially sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge.

PumpDrive, Hyamaster, Amacontrol, Switchgears, LevelControl

Reference no. 2553.5 also available in 60 Hz

Amarex® KRT® wet / dry, with energy-saving motor Submersible motor pump DN 80 to DN 200

DN	80 - 200
Q [m³/h]	max. 550
H [m]	max. 25
T [°C]	max. +40
n [min⁻¹]	max. 1450

Data for 50 Hz operation

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

Applications: Handling of all types of waste water in waste water engineering and industry, especially sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge.

PumpDrive, Hyamaster, Amacontrol, Switchgears, LevelControl

Reference no. 2553.5 also available in 60 Hz

Automation possible

Submersible pumps in discharge tubes

Amacan® K Submersible motor pump with non-clogging impeller

DN	700 - 1400
Q [m³/h]	max. 7200
H [m]	max. 30
T [°C]	max. +40
n [min⁻¹]	max. 980

Data for 50 Hz operation

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

Applications: Handling of pre-cleaned, chemically neutral waste water, industrial effluents and sewage, fluids not containing any stringy substances pretreated by screens and sills, as waste water, mixed water and activated sludge pump in effluent treatment plants, irrigation and drainage pumping systems.

Hyamaster, Amacontrol | Reference no. 1579.5 | also available in 60 Hz

Amacan® P Submersible motor pump with axial propeller

DN	500 - 1500
Q [m³/h]	max. 25200
H [m]	max. 12
T [°C]	max. +40
n [min⁻¹]	max. 1450

Data for 50 Hz operation

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

Applications: Irrigation and drainage pumping stations, stormwater pumping stations, handling of raw and clean water in water and effluent treatment plants, of cooling water in power stations and industrial plants, industrial water supply systems, water pollution and flood control systems, aquaculture.

Hyamaster, Amacontrol | Reference no. 1580.5 | also available in 60 Hz

Amacan® S Submersible motor pump with mixed flow impeller

DN	650 - 1300
Q [m³/h]	max. 10800
H [m]	max. 40
T [°C]	max. +30
n [min⁻¹]	max. 1450

Data for 50 Hz operation

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

Applications: Handling of water without stringy substances in irrigation and drainage pumping systems, general water supply systems, water pollution and flood control systems.

Hyamaster, Amacontrol | Reference no. 1589.5 | also available in 60 Hz

Automation possible

Mixers / agitators / tank cleaning units

Amamix Submersible mixer

Propeller ø [mm]	200 - 600
Install. depth [m]	max. 30
T [°C]	max. +40
n [min^{-1}]	max. 1400

Data for 50 Hz operation

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

Applications: Handling of municipal and industrial waste water and sludges, also in environmental engineering (biogas plants, etc.).

Reference no. 1592.551 / 1592.552 also available in 60 Hz

Amaprop Submersible agitator

Propeller ø [mm]	1000 - 2500
Install. depth [m]	max. 30
T [°C]	max. +40
n [min^{-1}]	max. 109

Design: Horizontal submersible agitator with self-cleaning ECB propeller, close-coupled design, equipped with coaxial spur gear. ATEX-compliant version available.

Applications: In environmental engineering, particulary for circulating, keeping in suspension and inducing flow in municipal and industrial waste water and sludges; in nitrification and denitrification tanks, activated sludge tanks, mixing tanks, final storage tanks, biological phosphate elimination tanks, flocculation tanks and in biogas applications.

Reference no. 1592.505

Amajet Cleaning system

DN	100 - 150
Q [m^3/h]	max. 195
T [°C]	max. +40
n [min^{-1}]	max. 1450

Design: Stationary or portable unit with horizontal or vertical submersible motor propulsive jet pump with non-clogging free-flow impeller. Motor rating 5.5 to 27 kW. Available variants: Amajet, SewerAmajet, SwingAmajet, MultiAmajet.

Applications: Cleaning of stormwater tanks and storage sewers.

Reference no. 1574.5

Amaline Submersible motor recirculation pump

DN	300 - 800
Q [m^3/h]	max. 5400
H [m]	max. 2
T [°C]	max. +40
n [min^{-1}]	max. 960

Design: Wet-installed, horizontal propeller pump with submersible motor, equipped with spur gear or direct drive, ECB propeller with 3 rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. ATEX-compliant version available.

Applications: Recirculation of activated sludge in waste water treatment systems.

Reference no. 1594.5

Pumps for solids-laden fluids

Sewatec® / Sewabloc Dry-installed volute casing pump

DN	50 - 700
Q [m³/h]	60 - 10000
H [m]	max. 95
p [bar]	max. 10
T [°C]	max. +70
n [min⁻¹]	max. 2900

Data for 50 Hz operation

Design: Horizontal or vertical volute casing pump with free-flow (F), single-channel (E), multi-channel (K) and diagonal single vane (D) impellers, discharge flange to DIN and ANSI standards. ATEX-compliant version available.

Applications: Handling of sewage and all types of waste water in waste water management and industry.

Hyamaster, PumpDrive, LevelControl

Reference no. 2580.5 / 2580.45 / 2580.35 also available in 60 Hz

KWP® / KWP®-Bloc Non-clogging impeller centrifugal pump / close-coupled unit

DN	40 - 900 (1000)
Q [m³/h]	max. 15000 (18000)
H [m]	max. 100
p [bar]	max. 10
T [°C]	-40 to +120 (max. +280)
n [min⁻¹]	max. 2900

Data for 50 Hz operation, also available in 60 Hz

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

Applications: Handling of pre-treated sewage, waste water, all types of slurries without stringy substances and pulps up to 5 % bone dry.

Hyamaster

Reference no. 2361.5 / 2362.5 / 2361.450 / 2361.453 / 2361.460

Slurry pumps

WBC Slurry pump

Q [m³/h]	max. 13600
H [m]	max. 80
p [bar]	max. 40
T [°C]	max. +120

Design: Patented design incorporates state-of-the art hydraulic and wear technologies for heavy-duty, high-pressure applications. The pump shell is designed to reduce stresses that can cause a structural failure during a pressure surge.

Applications: Ideal for ore and tailings transport to minimize the effect of sudden pressure spikes.

LSA-S Slurry pump

Q [m³/h]	max. 14000
H [m]	max. 90
p [bar]	max. 16
T [°C]	max. +120

Design: Premium design hard iron pumps for long wear life pumping severe slurries. The basic, single-wall construction and heavy section, hard metal wet end combined with the cartridge bearing assembly provides maximum reliability and ease of maintenance.

Applications: Pumps are widely used in ore transport, mill discharge, cyclone feed, tailings and plant process.

Automation possible

Slurry pumps

LCC-M Slurry pump

Q [m³/h]	max. 3865
H [m]	max. 90
p [bar]	max. 16
T [°C]	max. +120

Design: The hydraulic wet end consists of three components: a shell or casing, an impeller and a suction plate / liner to permit easy removal for maintenance and inspections.

Applications: Reliable pumps for high discharge head, mildly corrosive slurries and a wide range of particle sizes. Used in mineral processing, mine dewatering, ash and tailings.

LCC-R Slurry pump

Q [m³/h]	max. 3865
H [m]	max. 90
p [bar]	max. 16
T [°C]	max. +120

Design: Interchangeable rubber and metal design allows best material choice for any application. Easy wet end change can adapt existing pumps to new applications.

Applications: Pumps are suitable for moderate discharge heads, fine particles and highly corrosive slurries.

TBC Slurry pump

Q [m³/h]	max. 18200
H [m]	max. 90
p [bar]	max. 55
T [°C]	max. +120

Design: A high-pressure design, these pumps are constructed as horizontal, end suction centrifugal pumps to give maximum resistance to wear while simplifying maintenance. The conventional single-wall design transfers stress loads to non-wearing side plates in high-pressure applications.

Applications: Features high head and high flow rates for hydrotransport, tailings, dredging, pipeline booster stations and other severe duties.

LCV Slurry pump

Q [m³/h]	max. 1360
H [m]	max. 38
p [bar]	max. 14
T [°C]	max. +120

Design: Vertical cantilever, rugged hard metal sump pump with bottom suction and no submerged bearings. Replaceable wet end parts in metal alloys with a durable mechanical end.

Applications: Ideal for industrial process pumping, tailings disposal in mining and pit use.

FGD Slurry pump

Q [m³/h]	max. 22700
H [m]	max. 45
p [bar]	max. 17
T [°C]	max. +120

Design: High-flow / low-head hard metal pumps with a single-wall shell design. High-efficiency impeller. Suction-side liner is equipped with integrated mounting plates.

Applications: Absorber recirculation and ancillary process pumps.

Slurry pumps

Mega Slurry pump

Q [m³/h]	max. 45
H [m]	max. 30
p [bar]	max. 24
T [°C]	max. +120

Design: Horizontal, end suction, modified volute casing pump includes 3 vane open design impeller for large solids passage.

Applications: High-performance, low maintenance slurry pump recommended for coarse or fine particles from solids-laden waste water to aggressive slurries of an abrasive nature.

HHD Slurry pump

Q [m³/h]	max. 14400
H [m]	max. 90
p [bar]	max. 29
T [°C]	max. +120

Design: Best suited for high-flow, high-head pumping where high production requires the reduction in the number of pumps.

Applications: Ideal for pipeline booster stations and severe mining duties. Also, as booster or main hull pump on cutter suction dredges.

MHD Slurry pump

Q [m³/h]	max. 32000
H [m]	max. 80
p [bar]	max. 28
T [°C]	max. +120

Design: Designed to provide high flow / medium head with high efficiency for high volume transportation in long pipelines.

Applications: Ideal for pipeline booster stations and severe mining duties. Also for hopper dredges or as main pump on cutter dredges.

LHD Slurry pump

Q [m³/h]	max. 21600
H [m]	max. 65
p [bar]	max. 17
T [°C]	max. +120

Design: High-flow / low-head design with balanced NPSHR and sphere passage for high volume transportation over short distance.

Applications: Ideal for sand and gravel, severe mining, dredge ladder and booster pumps.

MDX Slurry pump

Q [m³/h]	max. 14000
H [m]	max. 90
p [bar]	max. 16
T [°C]	max. +120

Design: The latest technology from GIW provides superior wear life and increased up-time handling your most aggressive slurry applications.

Applications: Designed for SAG and ball mill discharge duties as well as cyclone feed and screen feed applications in ore mining.

Slurry pumps

ZW Slurry pump

Q [m³/h]	max. 400
H [m]	max. 35
p [bar]	max. 10
T [°C]	max. +120

Design: Vertical cantilever, rugged hard metal sump pumps with top and bottom suction, not submerged bearings. Replaceable wet end parts in metal alloys with a durable mechanical end.

Applications: Abrasive slurries, dewatering, floor clean up, and process transfer.

HVF Slurry pump

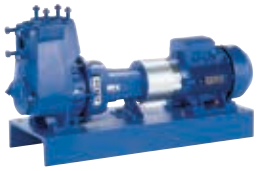
Q [m³/h]	max. 400
H [m]	max. 35
p [bar]	max. 10
T [°C]	max. +120

Design: 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 both the mineral processing and industrial minerals industries.

Self-priming pumps

Etaprime® L Self-priming pump for pure or contaminated liquids



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

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

Applications: Handling of pure, contaminated or aggressive liquids not containing abrasive substances and / or solids.

Reference no. 2745.5 also available in 60 Hz

Etaprime® B / BN Self-priming close-coupled pump for pure or contaminated liquids

DN	25 - 100
Q [m³/h]	max. 130
H [m]	max. 72
p [bar]	max. 10
T [°C]	max. +90

Data for 50 Hz operation

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

Applications: Handling of pure, contaminated or aggressive liquids not containing abrasive substances and / or solids.

Reference no. 2746.5 also available in 60 Hz

Self-priming pumps

MZ Self-priming multistage liquid ring pump

DN	20 - 50
Q [m³/h]	max. 21
H [m]	max. 140
p [bar]	max. 16
T [°C]	-5 to +120
n [min⁻¹]	max. 1500

Data for 50 Hz operation

Design: Self-priming multistage liquid ring pump in close-coupled design, with mechanical seal or gland packing.

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

also available in 60 Hz

Submersible borehole pumps

S 100D / UPA 100C Submersible borehole pump

DN	100
Q [m³/h]	max. 16
H [m]	max. 400
T [°C]	max. +30

Data for 50 Hz operation

Design: Multistage centrifugal pump in ring-section design, for vertical or horizontal installation, impellers made of plastic (S 100D) or stainless steel (UPA 100C) for well diameters of 100 mm (4 inches) and above, available with single-phase a.c. motor or three-phase motor with motor lead.

Applications: Domestic water supply, irrigation and spray irrigation systems, lowering of ground water levels, fire-fighting systems, cooling circuits, fountains, pressure boosting and air-conditioning systems.

Switchgears, Cervomatic

Reference no. 3400.5

also available in 60 Hz

UPA 150C Submersible borehole pump

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

Data for 50 Hz operation

Design: Single-stage or multistage centrifugal pump in ring-section design, for vertical or horizontal installation, completely made of stainless steel, for well diameters of 150 mm (6 inches) and above.

Applications: Handling of clean or slightly contaminated water, irrigation and drainage, spray irrigation, industrial and municipal water supply, maintaining / lowering of groundwater levels, fire-fighting systems, drinking, raw and service water supply, pressure boosting.

Hyamaster, PumpDrive

Reference no. 3400.52

also available in 60 Hz

UPA 200, 200B, 250C Submersible borehole pump

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

Data for 50 Hz operation

Design: Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Available with non-return valve or connection branch.

Applications: Handling of clean or slightly contaminated water in general water supply, irrigation and spray irrigation systems, maintaining / lowering of ground water levels, fountains, pressure boosting systems, in mines, fire-fighting systems, emergency water supply systems, etc.

Hyamaster

Reference no. 3400.5

also available in 60 Hz

Automation possible

Submersible borehole pumps

UPA 300, 350 Submersible borehole pump

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

Data for 50 Hz operation

Design: Single- or multistage, single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Non-return valve or connection branch on option. Mixed flow hydraulic systems available with reduced impeller diameters.

Applications: Handling of clean or slightly contaminated water in general water supply, irrigation and spray irrigation systems, maintaining / lowering of ground water levels, in mines, fire-fighting systems, fountains, etc.

Hyamaster

Reference no. 3400.5

also available in 60 Hz

UPZ, BSX-BSF Submersible borehole pump

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

Data for 50 Hz operation

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

Applications: Handling of clean or slightly contaminated water, maintaining / lowering of ground water levels, in mines.

Reference no. 3470.021

also available in 60 Hz

BEV Deep-well vertical turbine pump

DN	80 - 400
Q [m³/h]	max. 2200
H [m]	max. 350
p [bar]	max. 40
T [°C]	+5 to +75
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: Vertical multistage deep-well turbine pump with closed impellers. Column section with bearing, shaft sleeve; shaft sealed by gland packing. Driven by electric motor or diesel engine. ATEX-compliant version available.

Applications: Handling of clean water, agriculture, irrigation and collection, public water supply, industry, fire-fighting, etc.

also available in 60 Hz

High-pressure pumps, fixed / variable speed

Movitec® V / LHS / VS / VC High-pressure in-line pump

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

Data for 50 Hz operation

Design: 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 boosting systems, hot water and cooling water recirculation, boiler feed systems, etc.

PumpMeter, Hyamaster | Reference no. 1798.5 | also available in 60 Hz

Movitec® VCI High-pressure in-line pump

Rp / DN	1¼ - 2 / 32 - 45
Q [m³/h]	max. 27
H [m]	max. 250
p [bar]	max. 40
T [°C]	max. +120
n [min⁻¹]	max. 2900

Data for 50 Hz operation

Design: Multistage, vertical high-pressure immersion centrifugal pump for installation on a tank or platform.

Applications: Machine tools, industrial machine plants, condensate transport, painting systems.

PumpMeter, Hyamaster | Reference no. 1798.54 | also available in 60 Hz

Movitec® PumpDrive High-pressure in-line pump with motor-mounted variable speed system

DN	25 - 100
Q [m³/h]	max. 113
H [m]	max. 401
p [bar]	max. 40
T [°C]	max. +140
n [min⁻¹]	max. 2900

Design: 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 and motor-mounted variable speed system.

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

PumpMeter | Reference no. 1798.5 + 4070.5 | also suitable for 60 Hz operation

Multitec® High-pressure pump in ring-section design

DN	32 - 150
Q [m³/h]	max. 850
H [m]	max. 630 (1000)
p [bar]	max. 63 (100)
T [°C]	-10 to +200
n [min⁻¹]	max. 4000

Data for 50 Hz and 60 Hz operation

Design: Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled or close-coupled, with axial or radial suction nozzle, discharge nozzle can be turned in steps of 90°, cast radial impellers. ATEX-compliant version available.

Applications: Water and drinking water supply systems, general industry, pressure boosting systems, irrigation systems, in power stations, heating, filter, fire-fighting, reverse osmosis and washing plants, snow guns, etc.

PumpMeter, Hyamaster, PumpDrive | Reference no. 1777.5 | available in 50 Hz and 60 Hz

Multitec® PumpDrive High-pressure pump in ring-section design with motor-mounted variable speed system

DN	32 - 125
Q [m³/h]	max. 180
H [m]	max. 630
p [bar]	max. 63
T [°C]	max. +140
n [min⁻¹]	max. 4000

Design: Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled and close-coupled variant, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system.

Applications: Water and drinking water supply systems, general industry, pressure boosting systems, irrigation systems, in power stations, heating, filter, fire-fighting, reverse osmosis and washing plants, snow guns, etc.

PumpMeter | Reference no. 1777.5 + 4070.5 | also suitable for 60 Hz operation

Factory-automated Automation possible

Axially split pumps

Omega® Axially split volute casing pump DN 80 - 350

DN	80 - 350
Q [m³/h]	max. 2880
H [m]	max. 210
p [bar]	max. 25
$T_{standard\ model}$ [°C]	max. +80
$T_{hot\ water\ model}$ [°C]	max. +140
n [min⁻¹]	max. 2900

Data for 50 Hz operation,
higher values available upon request

Design: 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 handling water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, desalination systems for water extraction, power plants, fire-fighting systems, shipbuilding, district heating/cooling.

Hyamaster, PumpMeter

Reference no. 1384.5 / 1384.3940

also available in 60 Hz

RDLO Axially split volute casing pump DN 350 - 700

DN	350 - 700
Q [m³/h]	max. 10000
H [m]	max. 240
p [bar]	max. 25
$T_{standard\ model}$ [°C]	max. +80
$T_{hot\ water\ model}$ [°C]	max. +140
n [min⁻¹]	max. 1500

Data for 50 Hz operation,
higher values available upon request

Design: 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 handling water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, desalination systems for water extraction, power plants, fire-fighting systems, shipbuilding, district heating/cooling.

Reference no. 1387.5 / 1387.391

also available in 60 Hz

RDLP Axially split volute casing pump DN 350 - 1200

DN	350 - 1200
Q [m³/h]	max. 18000
H [m]	max. 550
p [bar]	max. 64
$T_{standard\ model}$ [°C]	max. +80
n [min⁻¹]	max. 1500

Data for 50 Hz operation,
higher values available upon request

Design: Single-, two- or three-stage, axially split volute casing pump for horizontal installation with double-entry radial impeller, mating flanges to DIN, ISO or ANSI.

Applications: For handling water with a low solids content in water works and long-distance water supply systems.

also available in 60 Hz

Automation possible

Hygienic pumps

Vitachrom® Rolled steel centrifugal pump

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

Design: Maintenance-free, 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 and 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 and its materials comply with FDA standards.

Applications: Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.

Hyamaster, PumpDrive | Reference no. 1966.5 | also available in 60 Hz

Vitacast® Investment cast centrifugal pump

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,
other values available upon request

Design: Maintenance-friendly volute casing pump with standardised motor, all wetted components 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. Also available with a trolley (accessory).

Applications: Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.

PumpDrive | Reference no. 1969.51 | also available in 60 Hz

Vitaprime® Self-priming centrifugal pump

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,
other values available upon request

Design: Maintenance-friendly self-priming side channel pump with standardised motor, all wetted components made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible). Also available with a trolley (accessory).

Applications: Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.

PumpDrive | Reference no. 1969.54 | also available in 60 Hz

Vitastage® Multistage centrifugal pump

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

Data for 50 Hz operation,
other values available upon request

Design: Multistage centrifugal pump in close-coupled design for vertical or horizontal installation. All wetted components made of 1.4401/1.4408 (AISI 316/CF8M) stainless steel. Versatile, robust and especially energy-efficient.

Applications: Processes in the food and beverage industry as well as in the chemical industry with moderate hygienic requirements.

PumpDrive | Reference no. 1969.55 | also available in 60 Hz

Vitalobe® Rotary lobe pump

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]	≤ 200000
Volume displaced [litres per revolution]	max. 10.5

Data for 50 Hz operation,
other values available upon request

Design: Sturdy rotary lobe pump in hygienic design, bi-directional operation possible, horizontal and vertical orientation of connections. Hygienic design, CIP/SIP-compatible, all wetted components made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel; various rotor types and process connections available. Pump set with geared motor. Also available with a trolley (accessory).

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

Frequency inverter | Reference no. 1969.53 | also available in 60 Hz

Automation possible

Pumps for power station conventional islands

CHTA / CHTC / CHTD Boiler feed pump

DN	100 - 500
Q [m³/h]	max. 3700
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [min⁻¹]	max. 6750

Data for 50 Hz operation,
higher values available upon request

Design: Horizontal, high-pressure barrel-type pump with radial impellers, single- and double-entry, multistage, with flanges / weld end nozzles to DIN and ANSI.

Applications: Handling of feed water and condensate in power stations and industrial facilities, generation of pressurized water for bark peeling machines and descaling equipment.

Reference no. 1860.1 — also available in 60 Hz

HGB / HGC® / HGD Boiler feed pump

DN	40 - 400
Q [m³/h]	max. 2300
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [min⁻¹]	max. 7000

Data for 50 Hz operation,
higher values available upon request

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

Applications: Handling of feed water and condensate in power stations and industrial facilities, generation of pressurized water for bark peeling machines, descaling equipment, snow guns, etc.

Reference no. 1850.02 — also available in 60 Hz

HGM® Boiler feed pump

DN	25 - 100
Q [m³/h]	max. 274
H [m]	max. 1400
p [bar]	max. 140
T [°C]	max. +160
n [min⁻¹]	max. 3600

Data for 50 Hz operation,
higher values available upon request

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

Applications: Handling of feed water in power stations, boiler feed water and condensate in industrial facilities.

Reference no. 1856.02 — also available in 60 Hz

YNK Boiler feed booster pump

DN	125 - 600
Q [m³/h]	max. 3700
H [m]	max. 280
p [bar]	max. 40
T [°C]	max. +210
n [min⁻¹]	max. 1800

Data for 50 Hz operation,
higher values available upon request

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

Applications: Handling of feed water in power stations and industrial facilities.

Reference no. 1135.021 — also available in 60 Hz

LUV® / LUVA Boiler recirculation pump

DN	100 - 550
Q [m³/h]	max. 7000
H [m]	max. 300
p [bar]	max. 350
T [°C]	max. +380
n [min⁻¹]	max. 3600

Higher values available upon request

Design: 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.

Reference no. 1128.023 — available in 50 Hz and 60 Hz

Pumps for power station conventional islands

WKTB Condensate pump

DN	150 - 300
Q [m³/h]	max. 1500
H [m]	max. 370
p [bar]	max. 40
T [°C]	max. +100
n [min⁻¹]	max. 1500

Data for 50 Hz operation,
higher values available upon request

Design: Vertical can-type ring-section pump, underfloor assembly on baseframe, multistage, first stage designed as double-entry suction impeller, radial impellers. Flanges to DIN or ANSI.

Applications: Pumping of condensate in power stations and industrial systems.

Reference no. 0361.033

SEZ / SEZT / PHZ / PNZ Tubular casing pump

Q [m³/h]	max. 80000
H [m]	max. 120
T [°C]	max. +40
n [min⁻¹]	max. 980

Data for 50 Hz operation,
higher values available upon request

Design: 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, flanges to DIN or ANSI standards available.

Applications: Handling of raw, pure, service and cooling water in industry, water supply systems, in power stations and seawater desalination plants.

Reference no. 1471.02 — available in 50 Hz and 60 Hz

SNW / PNW Tubular casing pump

DN	350 - 800
Q [m³/h]	max. 9000
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60
n [min⁻¹]	max. 1500

Data for 50 Hz operation,
higher values available upon request

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

Applications: Irrigation and drainage systems, stormwater pumping stations, handling of raw and pure water, water supply systems, handling of cooling water.

Reference no. 1481.5 / 1591.5 — available in 50 Hz and 60 Hz

Beveron Concrete volute casing pump

Q [m³/s]	max. 30
H [m]	max. 27

Data for 50 Hz operation,
higher values available upon request

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

Applications: Coast protection and flood control, irrigation and drainage, low-lift pumping stations, reservoir filling, stormwater applications, cooling water, raw and pure water.

Reference no. 1.471.021 — available in 50 Hz and 60 Hz

SPY Cooling water pump

DN	350 - 1200
Q [m³/h]	max. 21600
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +105
n [min⁻¹]	max. 1480

Data for 50 Hz operation,
higher values available upon request

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

Applications: Drainage, irrigation and water supply systems, handling of condensate, cooling water, service water, etc.

Reference no. 2834.021 — also available in 60 Hz

Pumps for nuclear power plants

RER Reactor coolant pump

DN	max. 800
Q [m³/h]	max. 40000
H [m]	max. 140
p [bar]	max. 175
T [°C]	max. +350
n [min⁻¹]	max. 1800

Higher values available upon request

Design: Vertical, single-stage reactor coolant pump RCP with forged annular 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 plants (PWR).

Reference no. 1682.021 available in 50 Hz and 60 Hz

RSR Reactor coolant pump

DN	max. 750
Q [m³/h]	max. 24000
H [m]	max. 215
p [bar]	max. 175
T [°C]	max. +350
n [min⁻¹]	max. 1800

Higher values available upon request

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

Applications: Reactor coolant recirculation in nuclear power plants (PWR, PHWR, BWR).

Reference no. 1665.021 available in 50 Hz and 60 Hz

RUV Reactor coolant pump

DN	max. 650
Q [m³/h]	max. 22000
H [m]	max. 111
p [bar]	max. 155
T [°C]	max. +350
n [min⁻¹]	max. 1800

Higher values available upon request

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

Applications: Reactor coolant recirculation in generation III+ nuclear power plants (PWR).

Reference no. 1669.021 available in 50 Hz and 60 Hz

PSR Reactor internal pump

DN	max. 600
Q [m³/h]	max. 9000
H [m]	max. 45
p [bar]	max. 75
T [°C]	max. +300
n [min⁻¹]	max. 2000

Higher values available upon request

Design: Vertical pump set integrated in the reactor pressure vessel RIP, seal-less pump with leak-free, low-maintenance wet winding motor.

Applications: Reactor coolant recirculation in boiling water reactors (BWR).

Reference no. 1576.021 available in 50 Hz and 60 Hz

RHD Feed water pump

DN	125 - 500
Q [m³/h]	max. 6500
H [m]	max. 1000
p [bar]	max. 150
T [°C]	max. +210
n [min⁻¹]	max. 6500

Higher values available upon request

Design: 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 plants.

Reference no. 1668.023 available in 50 Hz and 60 Hz

Pumps for nuclear power plants

LUV® Nuclear Reactor coolant / reactor water clean-up pump

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

Higher values available upon request

Design: Vertical pump with integrated motor, single-entry, one to three stages. 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 ASME Section 3, KTA, etc.

Applications: As reactor water clean-up pump RWCP in boiling water reactors, reactor coolant pump RCP in boiling water and pressurized water reactors, and as recirculation pump in test facilities.

Reference no. 1128.022 available in 50 Hz and 60 Hz

RHM Pump for safety-related and auxiliary systems

DN	max. 150
Q [m³/h]	max. 300
H [m]	max. 2100
p [bar]	max. 220
T [°C]	max. +180
n [min⁻¹]	max. 8000

Higher values available upon request

Design: Horizontal, multistage barrel pull-out pump.

Applications: Core flooding, emergency cooling and residual heat removal systems RHRS, chemical and volume control systems CVCS, control rod drive systems CRDS, high- and medium-pressure safety injection systems HPSI / LPSI / MHSI / LHSI, emergency feed water systems EFWS, start-up and shutdown feed water systems SSS, high-pressure charging.

Reference no. 1666.021 available in 50 Hz and 60 Hz

RVM Pump for safety-related and auxiliary systems

DN	max. 85
Q [m³/h]	max. 50
H [m]	max. 2000
p [bar]	max. 200
T [°C]	max. +100
n [min⁻¹]	max. 6000

Higher values available upon request

Design: Vertical, multistage barrel pull-out pump.

Applications: Core flooding, emergency cooling and residual heat removal systems RHRS, chemical and volume control systems CVCS, high- and medium-pressure safety injection systems HPSI / LPSI.

Reference no. 0166.021 available in 50 Hz and 60 Hz

RHR Pump for safety-related and auxiliary systems

DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 3600

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

Applications: Core flooding, emergency cooling and residual heat removal systems RHRS, ancillary systems, acid feed system and low-pressure injection system LPSI, component cooling water system CCWS, essential service water system ESWS.

Reference no. 1662.021 available in 50 Hz and 60 Hz

RVR Pump for safety-related and auxiliary systems

DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 3600

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

Applications: Core flooding, emergency cooling and residual heat removal systems RHRS / RNS, ancillary systems, acid feed system and low-pressure injection system LPSI, component cooling water system CCWS, essential service water system ESWS.

Reference no. 1662.021 available in 50 Hz and 60 Hz

Pumps for desalination by reverse osmosis

RPH®-RO Booster pump

DN	100 - 350
Q [m³/h]	max. 2500
H [m]	max. 150
p [bar]	max. 80
T [°C]	max. +40

Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump, dry-installed, made of super-duplex stainless steel.

Applications: Booster pump for RO seawater desalination systems.

also available in 60 Hz

HGM®-RO High-pressure pump

DN	65 - 250
Q [m³/h]	max. 1500
H [m]	max. 950
p [bar]	max. 120
T [°C]	max. +40
n [min⁻¹]	max. 3600

Data for 50 Hz operation,
higher values available upon request

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

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

Reference no. 1582.12

also available in 60 Hz

Multitec®-RO High-pressure pump in ring-section design

DN	50 - 150
Q [m³/h]	max. 850
H [m]	max. 1000
p [bar]	max. 100
T [°C]	max. +45
n [min⁻¹]	max. 4000

Data for 50 Hz and 60 Hz operation

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

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

Hyamaster, PumpDrive

Reference no. 1777.5

available in 50 Hz and 60 Hz

Salino® Pressure Center High-pressure pump with integrated energy recovery device

Q [m³/h]	max. 23
p [bar]	max. 100
T [°C]	max. +50
n [min⁻¹]	max. 1750

Data for 50 Hz and 60 Hz operation

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

Applications: RO seawater desalination for small and medium sized applications.

Hyamaster, PumpDrive

Reference no. 1859.81

available in 50 Hz and 60 Hz

Automation possible

Positive displacement pumps

RC / RCV Helical gear pump

DN	20 - 100
Q [m³/h]	max. 78
H [m]	max. 100
p [bar]	max. 10
T [°C]	+5 to +80
n [min⁻¹]	max. 1500

Data for 50 Hz operation

Design: Helical gear pump, self priming, with by-pass valve, available in close-coupled design, horizontal design with baseplate, or vertical design. With mechanical seal.

Applications: Fuel feed, fuel, lube oil and viscous fluids transfer, lubrication systems.

also suitable for 60 Hz operation

IPR Reciprocating piston pump

DN	80 - 150
Q [m³/h]	max. 150
H [m]	max. 70
p [bar]	max. 10
T [°C]	+5 to +50
n [min⁻¹]	max. 1500

Data for 50 Hz operation

Design: Reciprocating piston pump. Vertical installation, with gearbox to reduce crankshaft speed to below 270 rpm.

Applications: Bilge, deck washing and fire-fighting.

also suitable for 60 Hz operation

Fire-fighting systems

FFS Fire-fighting system

DN	32 - 300
Q [m³/h]	max. 840
H [m]	max. 140
p [bar]	max. 16
T [°C]	+5 to +50
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: 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.

also suitable for 60 Hz operation

FFU Fire-fighting system

DN	32 - 350
Q [m³/h]	max. 2500
H [m]	max. 150
p [bar]	max. 25
T [°C]	+5 to +50
n [min⁻¹]	max. 3000

Data for 50 Hz operation

Design: 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.

also suitable for 60 Hz operation

Factory-automated

Automation and drives

SuPremE® Magnetless synchronous reluctance motor of efficiency class IE4 to IEC/CD 60034-30 Ed. 2.0

No. of pumps	max. 1
Voltage [V]	Power supply via PumpDrive variable speed system only

Design: 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 KSB PumpDrive S or R variable speed system. Suitable for connection to three-phase 380-480 V power supply (via PumpDrive). The motor mounting points are in compliance with EN 50347 specifications to ensure compatibility with standardised IEC frame motor applications and full interchangeability with IE2 standardised asynchronous motors. Envelope dimensions lie within the limits recommended in DIN V 42673 (07-2011) for IE2 motors. The motor is controlled without rotor position indicators. Efficiency of the motor also exceeds 95 percent of rated efficiency when the motor runs at 25 percent of its rated 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: All dry-installed variable speed pumps which can be driven by standardised motors of B3 or V1/V15 type of construction.

Reference no. 4075.51

Control units

Controlmatic E Automatic control unit

No. of pumps	max. 1
Voltage [V]	1~230

Design: Single-pump control system for starting, stopping and monitoring pumps.

Applications: Water supply systems, in combination with pump types Multi Eco, Multichrom S, Ixo, S 100D, etc.

Reference no. 5125.53

Controlmatic E.2 Automatic control unit

No. of pumps	max. 1
Voltage [V]	1~230

Design: Single-pump control system for starting, stopping and monitoring pumps.

Applications: Water supply systems, in combination with pump types Multi Eco, Multichrom S, Ixo, S 100D, etc.

Reference no. 5125.1785

Cervomatic EDP.2 Automatic control unit

No. of pumps	max. 1
Voltage [V]	1~230 / 3~400

Design: Single-pump control unit for pressure-controlled starting and either pressure-controlled or flow-controlled stopping as well as monitoring pumps.

Applications: In water supply systems using, for example, Multi Eco, Ixo, S 100D and UPA 150C.

Reference no. 5125.178

Control units

LevelControl Basic 2 Level control unit

No. of pumps	max. 2
[kW]	max. 22
Voltage [V]	1~230 / 3~400

Higher values available upon request

Design: Level control unit for controlling up to two pumps. Direct starting up to 4 kW, star-delta starting up to 22 kW.

Applications: Tank drainage via float switches, pneumatic or bubbler control in building services and waste water applications.

Reference no. 4041.5

UPA Control Control system for submersible borehole pumps

No. of pumps	max. 1
[kW]	3
Voltage [V]	1~230 / 3~400

Design: Single-pump control unit for submersible borehole pumps, submersible motor pumps and dry-installed pumps.

Applications: Water supply systems, in combination with pump types S 100D, UPA 150S, etc.

Reference no. 3465.1

hyatronic N Pump control system for cascade starting and stopping

No. of pumps	max. 6
[kW]	22
Voltage [V]	3~400

Higher values available upon request

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

Applications: Water supply systems.

Reference no. 0543.5026

Speed control systems

PumpDrive Self-cooling, motor-independent variable-speed system

No. of pumps	max. 6
FI	1 per pump / motor
[kW]	45
Voltage [V]	3~380 to 480

Design: Self-cooling frequency inverter which allows the motor speed to be varied continuously by means of standard signals and a field bus. Because PumpDrive is self-cooling, it can be mounted on the motor, on the wall or in a cabinet. Control of up to 6 pumps without an additional controller (with PumpDrive Advanced).

Applications: Cooling circuits, filters, water supply systems, heating, ventilation and air-conditioning systems, spray irrigation systems, boiler feed systems, steam generation plants, process engineering circuits, cooling lubricant supply systems, service water supply systems and other process engineering applications.

Reference no. 4070.5

hyatronic spc Pump control system for continuously variable speed adjustment

No. of pumps	max. 1
FI	max. 1
[kW]	7.5
Voltage [V]	3~400

Design: Single-pump control system for continuously variable speed adjustment with integrated frequency inverter.

Applications: Heating, ventilation, air-conditioning, water supply and drainage systems.

Reference no. 0973.5

Hyamaster ISB Pump control system for continuously variable speed adjustment

No. of pumps	max. 8
FI	max. 2
[kW]	200
Voltage [V]	3~400

Design: Control system for pumps with three-phase motors of all types and makes, consisting of a KSB controller with display and control panel and all required power components.

Applications: Industrial and process engineering circuits, service water supply, cooling and lubrication, energy supply in cogeneration plants, heat transfer and district heating stations, water extraction and treatment, water supply and waste water disposal.

Reference no. 1961.5

Hyamaster SPS Pump control system for continuously variable speed adjustment

No. of pumps	max. 4
FI	1 per pump
[kW]	650
Voltage [V]	3~400

Design: Control system for pumps with three-phase motors of all types and makes, consisting of a programmable logic controller (PLC) with display and control panel and all required power components housed in a control cabinet.

Applications: Process engineering circuits, service water supply, cooling and lubrication systems, cogeneration plants, heat transfer and district heating stations, water extraction and treatment, water supply and waste water disposal.

Reference no. 1964.5

Monitoring and diagnostic systems

PumpMeter Intelligent pressure transmitter

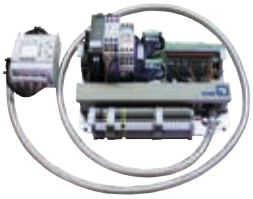
No. of pumps	max. 1
Type	see pump type series
Installation	factory-mounted, IP65
Voltage	24 V DC

Design: The PumpMeter device is an intelligent pressure transmitter for pumps, with on-site display of measured values and operating data. The device consists of 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 the operation of a centrifugal pump.

Reference no. 4072.5

Amacontrol Monitoring system for submersible waste water pumps



No. of pumps	max. 1
Type	Amacan
Installation	mounting plate IP20
Voltage	230 V AC

Design: Monitoring system for submersible waste water pumps with shutdown.

Reference no. 2316.5

Control system

BOA-Systronic®

No. of pumps	max. 1
PN	6 / 10 / 16
DN	20 - 200
Voltage [V]	24 VAC
T [°C]	+20 to +120

Higher values available upon request

Design: 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 m^3/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.

Reference no. 7540.1

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