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Our tradition:

Competence since 1871.

We have supplied generations of customers world-wide 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

for pumps and automation

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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

Ready where you are. KSB runs more than 160 service centres around the world. Some 2,600 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 products and systems efficiently and profitably, day in, day out.



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







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.







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.

			FluidFuture® + ErP	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Type / Application	Type series	Page		Α					
Circulator pumps/hot water service	Rio-Therm N	22		_					
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Circulator pullips, variable speed	Rio-Eco X	22							
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incarvariable speed	Etabloc	25		_					
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C 11	CPKN	29				_			
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FluidFuture®

			FluidFuture® + ErP	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Type / Application	Type series	Page		Α					
Pressure booster systems	Hya-Solo E Hya-Solo D Hya-Solo DV Hya-Compact VP Hya-Compact K Hya-Eco VP Hyamat K Hyamat V Hyamat VP	36 36 36 37 37 37 37 37 38 38						!	
Drainage pumps/waste water pumps	Hyamat IK, IV, IVP 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	38 38 39 39 39 39			-	ì		:	
Lifting units / collection tanks	AmaDS3 Ama-Drainer-Box Ama-Drainer-Box Mini mini-Compacta Compacta Pump Station CK 800-Eu Ama-Porter CK Pump Station Amarex N CK Pump Station Evamatic-Box	40 40 40 40 40 41 41 41				•		:	
Submersible motor pumps	Amarex N Amarex KRT Amarex KRT dry-installed Amarex KRT wet/dry-installed	42 42 42 42 42	•						
Submersible pumps in discharge tubes	Amacan K Amacan P Amacan S	43 43 43	-					-	
Mixers/agitators/tank cleaning units	Amamix Amaprop Amajet Amaline	44 44 44 44		-		i			
Pumps for solids-laden fluids	Sewatec / Sewabloc KWP / KWP-Bloc	45 45							
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FluidFuture® ErP Factory-automated Automation possible

			FluidFuture® + ErP	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Type / Application	Type series	Page		Α					
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Pumps for nuclear power plants	RER RSR RUV PSR RHD LUV Nuclear RHM RVM RHR RVR	55 55 55 55 55 56 56 56 56							
Pumps and pressure exchangers for seawater desalination by reverse osmosis	SalTec System SalTec DT RPH-RO HGM-RO Multitec-RO	57 57 57 57 57		:					

FluidFuture®

Automation		Page	FluidFuture [®]	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
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Control system	BOA-Systronic	61						

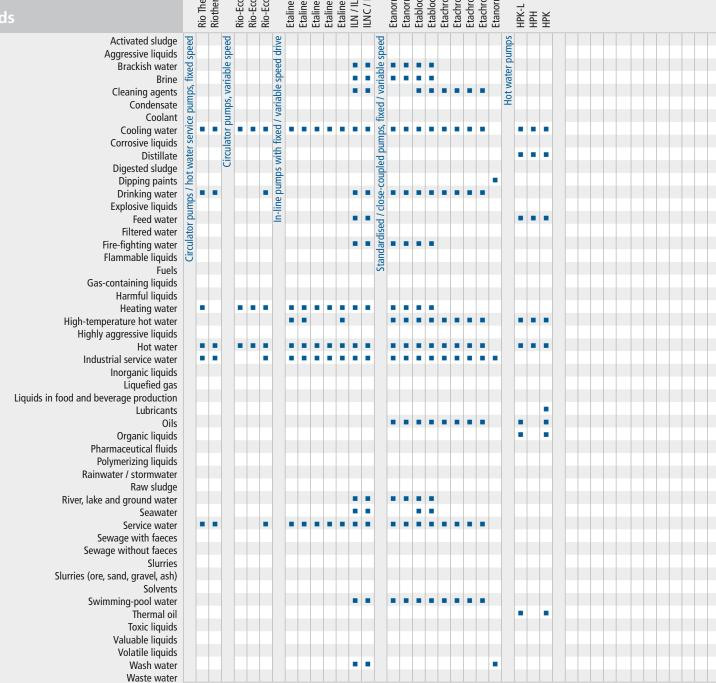
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Sami

Rio Therm N
Riotherm
Rio-Eco N
Rio-Eco Z N
Rio-Eco Therm N
Fetaline Z
Etaline Z PumpDrive

Fluid



Etanorm SYT / RSY	Etabloc SYT / Etaline SYT		HX (Nikkiso-KSB)	HY (Nikkiso-KSB)	į	MegaCPK	MegaCPK PumpDrive / PumpMeter	CANA	Machine	Magnochem-Bloc	Etaseco / Etaseco-l	Etaseco RVP	Secochem Ex	Secochem Ex K	HN / BN / TN (Nikkiso-KSB)	HT / BT / TT (Nikkiso-KSB)	HK (Nikkiso-KSB)	VN (Nikkiso-KSB)	DN (Nikkiso-KSB)		KPH	RPHb	KPH-V	CIN	API series (Nikkiso-KSB)	CHIR	YNKK	CINCP / CINCN	INVCP / INVCN	RWCP / RWCN	WKTR	
Hot water / thermal oil pumps					Standardised chemical pumps				2											Process pumps										•		Activated sludge Aggressive liquids
oil pu		Thermal oil pumps with magnetic drive / canned motor			al br		•	• 2	o co							Ī			Ī	ss br									•			Brackish water
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																														•		Slurries
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						-																										Swimming-pool water
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			•	•					1	1				•	•				•												•	Volatile liquids Wash water
																														•		Waste water

Hya-Rain / Hya-Rain N Hya-Rain Eco

Multi Eco Multi Eco-Pro Multi Eco-Top Movitec VME Ixo Filtra N

Hyamat IK, IV, IVP Hya-Solo E Hya-Solo D / DV Hya-Eco VP Hyamat K Hyamat V Hyamat VP

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

Fluids

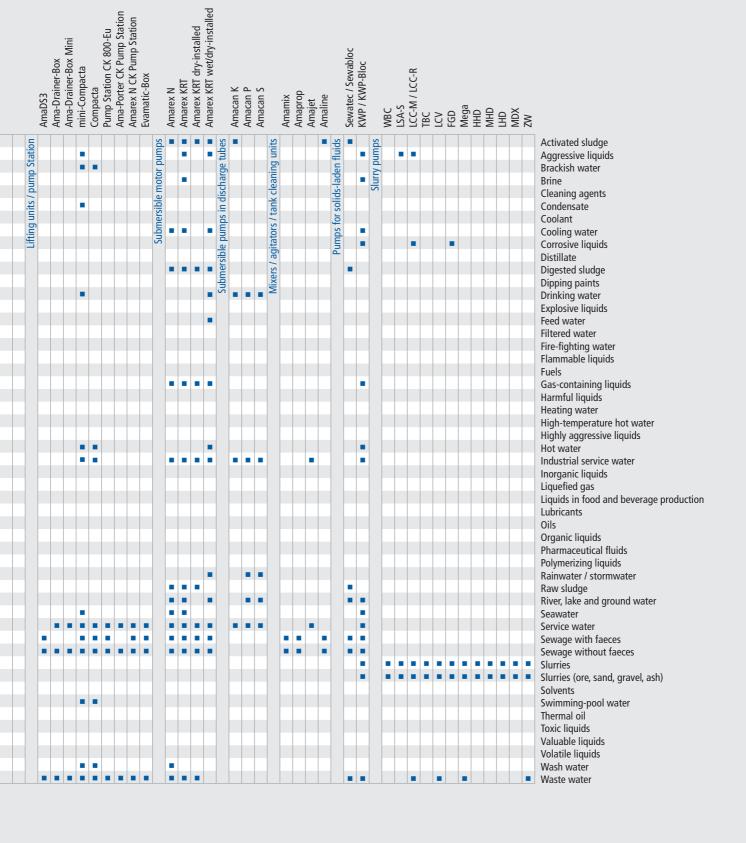
Activated sludge Aggressive liquids Brackish water Brine Cleaning agents Condensate Coolant Cooling water Corrosive liquids Distillate Digested sludge Dipping paints Drinking water **Explosive liquids** Feed water Filtered water Fire-fighting water Flammable liquids Fuels Gas-containing liquids Harmful 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

swimming pools

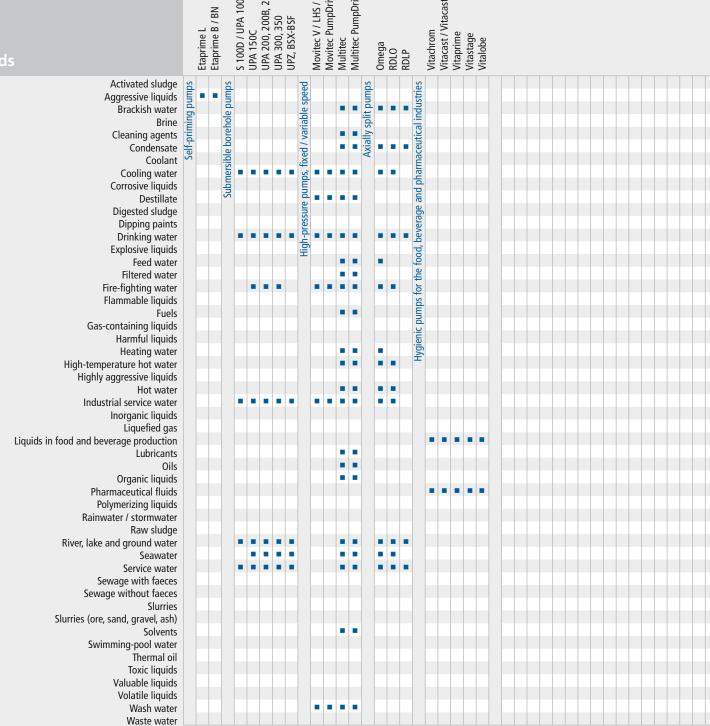
Rainwater harvesting systems automatic control unit /

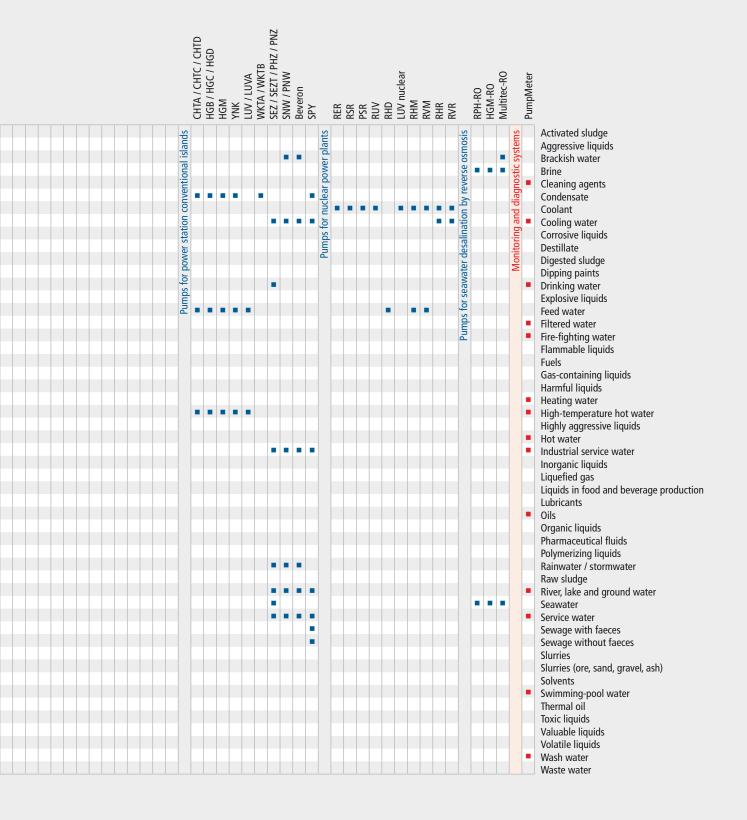
Drainage pumps / waste water pumps Pressure booster systems

Domestic water supply systems with - - - - -



Movitec V / LHS / VS / VC Movitec PumpDrive Multitec Multitec PumpDrive S 100D / UPA 100C UPA 150C UPA 200, 200B, 250C UPA 300, 350 UPZ, BSX-BSF Vitachrom Vitacast / Vitacast E Vitaprime Vitastage Vitalobe Omega RDLO RDLP





Etachrom BC PumpDrive
Etachrom NC PumpDrive
Etachrom NC PumpDrive
Etanorm GPV / CPV Etaline
Etaline Z
Etaline PumpDrive
Etaline Z PumpDrive Etanorm / Etanorm-R ILN / ILNE / ILNS ILNC / ILNCE / ILNCS **Etanorm PumpDrive** Etabloc Etabloc PumpDrive Etachrom BC Rio-Eco N Rio-Eco Z N Rio-Eco Therm N Rio Therm N Etaline-R HPK-L HPH HPK **Applications** Air-conditioning systems In-line pumps with fixed / variable speed drive Hot water pumps fixed speed Aquaculture Boiler circulation ī Boiler feed applications Circulator pumps / hot water service pumps, Chemical industry Cleaning of stormwater tanks / storage sewers Condensate transport Standardised / close-coupled pumps, Cooling circuits **Descaling units** Dewatering Dis posal 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

	Etanorm SYT / RSY	Etabloc SYT / Etaline SYT		HX (Nikkiso-KSB)	_		_	MegaCPK PumpDrive / PumpMeter		Magnochem	Magnochem-Bloc	Etaseco / Etaseco-I	Etaseco RVP	Secochem EX	Secochem EX K	HIN / BIN / HIN (NIRKISO-N3B)	HI DI / II (MIKKISO-NJB)	HK (NIKKISO-KSB)	ON (Nikkiso-KSB)		RPH	RPHb	KPH-V	A PI ceries (Nikkiso-KSB)	CLITE (MINNISO NOD)	VN K	NUNIU AUNIU	NCANI / dCANI	RWCP / RWCN	WKTR	
Hot water / thermal oil pumps			Thermal oil pumps with magnetic drive / canned motor			Standardised chemical pumps			Seal-less pumps		•	•	•		ľ					Process pumps							ŀ				Air-conditioning systems Aquaculture
al oil l			anned			mical			I-less I											cess	•										Boiler circulation Boiler feed applications
therm			ive / ca	•	•	ed che		•	Sea	•	П			T	Т	ľ	ľ	ľ	•	P		•	T						•		Chemical industry Cleaning of stormwater tanks / storage sewers
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Hot w			magne			Stand																									Descaling units Dewatering
			with 1																										•		Disposal District heating
			sdwn							Ī					Ì																Dock facilities
			l oil p																								•		•		Domestic water supply Drainage
			herma																												Drainage of pits, shafts, etc. Dredging
			_																												Fire-fighting systems Flood control / coast protection (stormwater)
									ı														ı,								Flue gas desulphurization Food and beverages industry
																															Fountains Heat recovery systems
							٠	•													•	•	I							П	Heavy oil and coal upgrading
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	٠	•		٠						•	•	•				ŀ	ŀ	ŀ									ŀ		٠		Hydraulic solids transport Industrial recirculation systems
																															Irrigation Keeping in suspension
																															Lowering ground water levels Maintaining ground water levels
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																													i	Ш	Water extraction Water supply
							•	•																				•	•		Water treatment systems

Hya-Rain / Hya-Rain N Hya-Rain Eco

Multi Eco Multi Eco-Pro Multi Eco-Top Movitec VME Ixo Filtra N

Hyamat IK, IV, IVP Hya-Solo D / DV Hya-Eco VP Hyamat VP Hya-Solo E Hyamat K Hyamat V

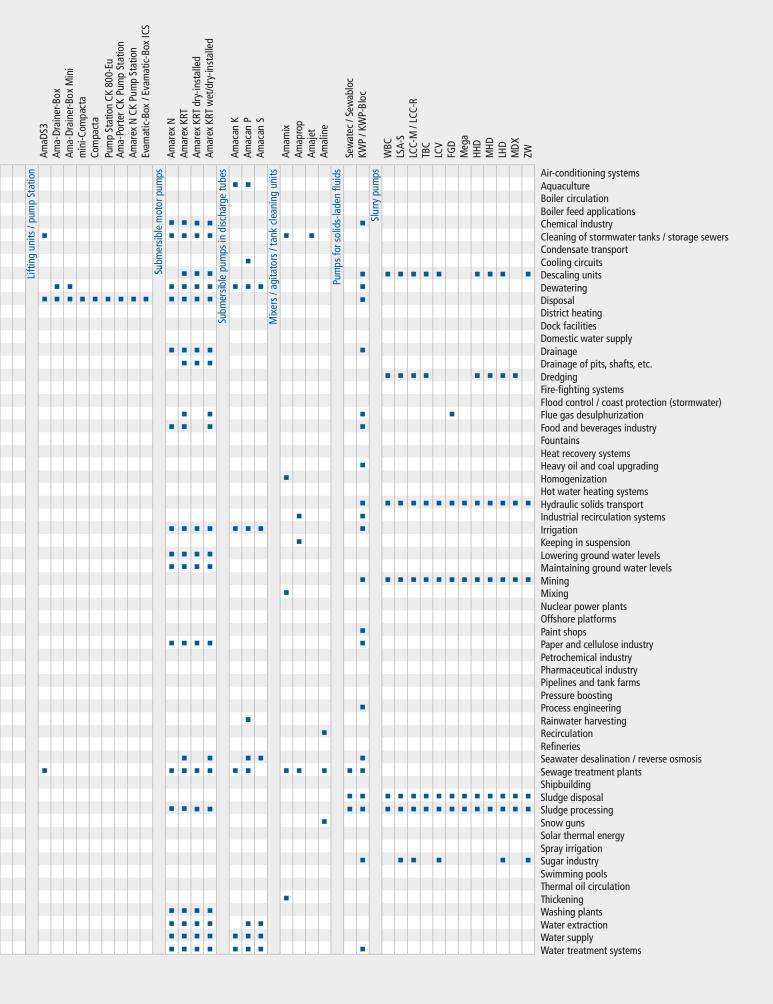
Ama-Drainer N 301, 302, 303, 358 Ama-Drainer 400/10 400/35 500/10/11 Ama-Drainer 80, 100 Ama-Porter F / S

Applications

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 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

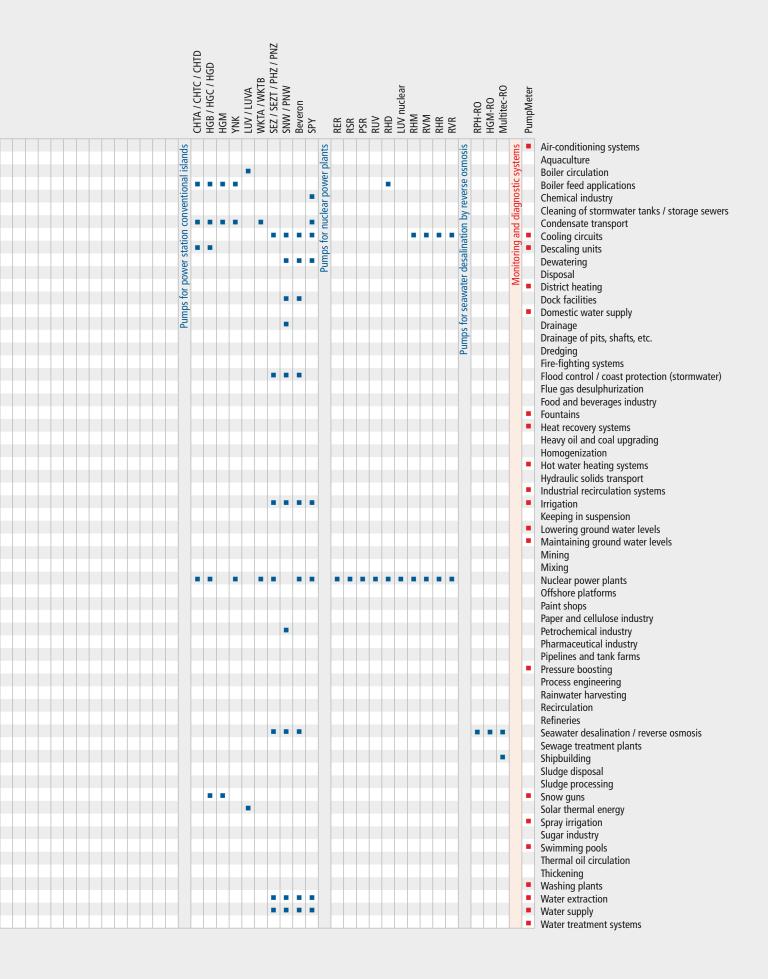
swimming pools Drainage pumps / waste water pumps Pressure booster systems Domestic water supply systems with automatic control unit /



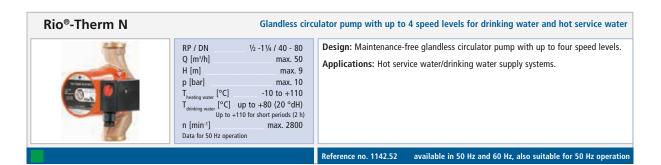
sawn

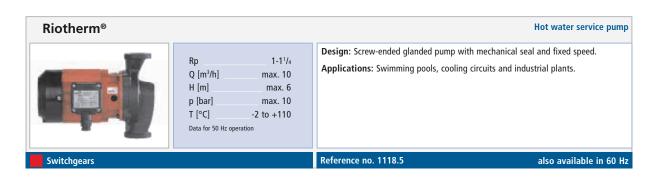
Etaprime L Etaprime B / BN	S 100D / UPA 100C UPA 150C UPA 200, 200B, 250C UPA 300, 350 UPZ, BSX-BSF	Movitec V / LHS / VS / VC Movitec PumpDrive Multitec Multitec PumpDrive	Omega RDLO RDLP	Vitachrom Vitacast / Vitacast E Vitaprime Vitastage
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Applications		Etaprin	Etaprim	S 100D	UPA 15	UPA 20	UPA 30	î Î	Movite	Movite	Multite	Multite	Omega	RDLO	RDLP	Vitachy	Vitachr	Vitabrir	Vitasta	Vitalob
Air-conditioning systems											-									
Aquaculture Boiler circulation			Suhmercihle horahole numps					High-pressure pumps, fixed / variable speed				Axially split pumps			Unionic mumos for the food percentage and percentage	Insm				
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Dewatering	,		Ū	ה ה				re pi					•		5	0 1)				
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Dock facilities								n-pr					•			Deve				
Domestic water supply				ŀ	٠			Hig							3	od,				
Drainage Drainage of pits, shafts, etc.															2	<u>ש</u>				
Drainage of pits, sharts, etc. Dredging															+	5				
Fire-fighting systems	5			ŀ			•		•	•	•		•		2	3				
Flood control / coast protection (stormwater)															2					
Flue gas desulphurization Food and beverages industry				ı.												_ _				
Fountains							•									ygie				
Heat recovery systems												•								
Heavy oil and coal upgrading Homogenization																				
Hot water heating systems																				
Hydraulic solids transport	t																			
Industrial recirculation systems				L					-				_							
Irrigation Keeping in suspension				ľ	•	•	-11-		•	-	1		•	•						
Lowering ground water levels																				
Maintaining ground water levels																				
Mining Mixing				ľ	Н	•	-11-													
Nuclear power plants																				
Offshore platforms																				
Paint shops Paper and cellulose industry	,			ľ	Н															
Petrochemical industry												•	•							
Pharmaceutical industry	,															ŀ		٠	٠	
Pipelines and tank farms																				
Pressure boosting Process engineering				ľ	i					_										
Rainwater harvesting				ŀ																
Recirculation																				
Refineries Seawater desalination / reverse osmosis																				
Sewage treatment plants		•																		
Shipbuilding												•								
Sludge disposal Sludge processing																				
Snow guns											•									
Solar thermal energy	,																			
Spray irrigation Sugar industry				ŀ	i	i	•		•	•						١.				
Swimming pools				ľ	Г											ľ	Т	Т	Г	
Thermal oil circulation	ı																			
Thickening																				
Washing plants Water extraction					•								•							
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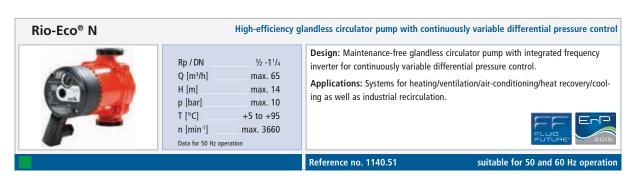


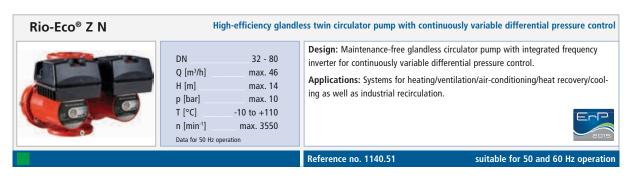
Circulator pumps / hot water service pumps, fixed speed





Circulator pumps, variable speed

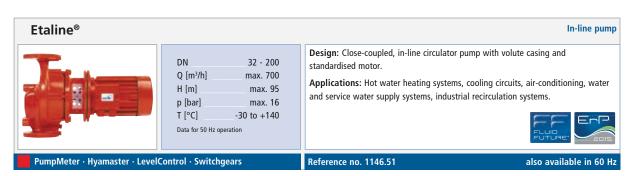


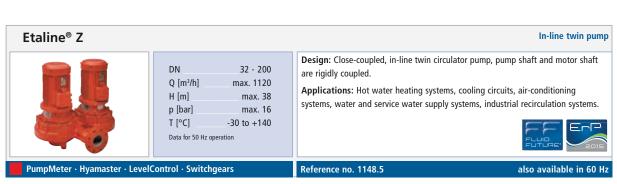


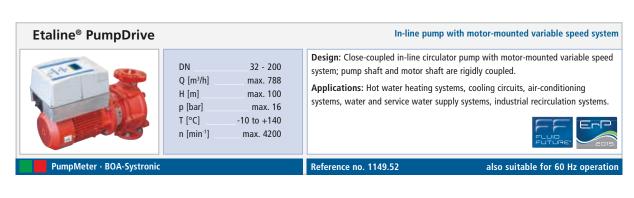
Circulator pumps, variable speed

High-efficiency glandless circulator pump with continuously variable differential pressure control Rio-Eco®-Therm N for drinking water and hot service water 1-11/4 / 32 - 80 Design: Maintenance-free glandless circulator pump with integrated frequency Rp / DN Q [m³/h] inverter for continuously variable differential pressure control. max. 38 H [m] max. 12 Applications: Hot service water/drinking water supply systems. p [bar] max. 10 T_{heating water} [°C] -10 to +110 T_{drinking water} [°C] n [min⁻¹] +80 (20 °dH) max. 3700 Data for 50 Hz operation Reference no. 1142.51 suitable for 50 and 60 Hz operation

In-line pumps with fixed / variable speed drive







In-line pumps with fixed / variable speed drive

Etaline® Z PumpDrive



DN 32 - 200 O [m3/h] max. 990 H [m] max. 38 max. 16 p [bar] T [°C] -10 to +140 max. 2100 $n\ [[min^{\text{-}1}]$

In-line pump with motor-mounted variable speed system

Design: Close-coupled in-line circulator pump, in twin pump design with motormounted variable speed system; pump shaft and motor shaft are rigidly coupled. Double pump control 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



DN 150 - 350 O [m3/h] max. 1900 H [m] max. 93 max. 25 p [bar] 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.





In-line pump

In-line pump

PumpMeter · PumpDrive · Hyamaster · Switchgears

Reference no. 1146.51

also available in 60 Hz

ILN / ILNE / ILNS



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

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.





In-line pump

PumpMeter · PumpDrive · Hyamaster · Switchgear

also suitable for 60 Hz operation

ILNC / ILNCE / ILNCS



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

Etanorm® / Etanorm®-R



DN 25 - 300 O [m3/h] max. 1900 max. 160 H [m] p [bar] max. 16 T [°C] max. +140 Data for 50 Hz operation

Standardised pump

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. ATEXcompliant 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 + 1211.5

also available in 60 Hz

Etanorm® PumpDrive



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

Standardised pump with motor-mounted variable speed system

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,

PumpMeter

Reference no. 1311.5

service water, etc.

Etabloc®



DN 25 - 150 Q [m³/h] max. 660 max. 102 H [m] p [bar] max. 16 T [°C] max. +140 Data for 50 Hz operation

Close-coupled pump

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.

cleaning agents, brackish water, service water, etc.





PumpMeter • Hyamaster

Reference no. 1167.5

also available in 60 Hz

Etabloc® PumpDrive



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

Close-coupled pump with motor-mounted variable speed system

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,



PumpMeter

Reference no. 1167.5 + 4070.5

Etachrom® BC



25 - 80 DN max. 260 O [m3/h] max. 106 H [m] p [bar] max. 12 T [°C] max. +110 Data for 50 Hz operation

Close-coupled chrome steel pump

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

Standardised / close-coupled pumps, fixed / variable speed

Etachrom® BC PumpDrive



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

Close-coupled chrome steel pump with motor-mounted variable speed system

Design: Close-coupled, horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motormounted 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



DN 25 - 80 max. 260 O [m3/h] H [m] max. 106 max. 12 p [bar] T [°C] max. +110 Data for 50 Hz operation

Standardised chrome steel pump

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



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

Standardised chrome steel pump with motor-mounted variable speed system

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,





PumpMeter

Reference no. 1212.5 + 4070.5

condensate, oil and cleaning agents.

Etanorm® GPV/CPV



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

Vertical low-pressure pump

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

Hot water pumps

HPK®-L



DN 25 - 250
Q [m³/h] max. 1330
H [m] max. 155
p [bar] max. 40
T [°C] max. +240 / +400
Data for 50 Hz operation

Heat transfer liquid / hot water recirculation pump without external cooling

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / 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®



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

Heat transfer liquid / hot water recirculation pump

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / 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®



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

Hot water recirculation pump

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 and recirculation pump.

Hyamaster

Reference no. 1122.5

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. 1170.5

also available in 60 Hz

Thermal oil pumps with magnetic drive / canned motor

(Only available in Europe, Russia, Middle East and Africa)

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

(Only available in Europe, Russia, Middle East and Africa)

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.

Standardised chemical pumps

MegaCPK



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

Standardised chemical pump with two bearing bracket variants

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Also available as variant with "wet" shaft. ATEX-compliant version available.

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

PumpMeter • PumpDrive

Reference no. 2731.5

also available in 60 Hz

MegaCPK PumpDrive / PumpMeter



DN 25 - 250
Q [m³/h] max. 1150
H [m] max. 162
p [bar] max. 25
T [°C] max. +140
n [min¹1] max. 3600
Data for 50 Hz operation

Standardised chemical pump with two bearing bracket variants

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Also available as variant with "wet" shaft. ATEX-compliant version available.

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

Reference no. 2730.5 + 4070.5

CPKN



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

Standardised chemical pump with reinforced bearing bracket

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. 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 refinery and fire-fighting systems, handling of brine.

PumpMeter • PumpDrive

Reference no. 2730.5

also available in 60 Hz

Seal-less pumps

Magnochem®



DN 25 - 250
Q [m³/h] max. 1250
H [m] max. 153
p [bar] max. 25
T [°C] max. +300
Data for 50 Hz operation

Standardised chemical pump with mag-drive

Design: Horizontal, seal-less, mag-drive volute casing pump in back pull-out design to ISO 2858 / EN 22 858 / 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

Seal-less pumps

Magnochem®-Bloc



DN	25 - 125
Q [m³/h]	max. 240
H [m]	max. 153
p [bar]	max. 25
T [°C]	max. +250
Data for 50 Hz operation	

Close-coupled chemical pump with mag-drive

Design: Horizontal, seal-less, close-coupled, mag-drive volute casing pump to ISO 2858 / EN 22 858 / 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



DN	32 - 100
Q [m³/h]	max. 250
H [m]	max. 100
p [bar]	max. 16
T [°C]	max. +140
Data for 50 Hz operation	

Standardised water pumps with canned motor

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



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

Cooling circuit pump with canned motor

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



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	

Standardised chemical pump with canned motor and explosion protection

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 EN 22 858 / 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



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	

Standardised chemical pump with canned motor and explosion protection

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 EN 22 858 / 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

Seal-less pumps

(Only available in Europe, Russia, Middle East and Africa)

HN / BN / TN (Nikkiso-KSB)



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	

Chemical canned motor pump with explosion protection

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

(Only available in Europe, Russia, Middle East and Africa)

HT / BT / TT (Nikkiso-KSB)



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	

Chemical canned motor pump with explosion-protection for special applications

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

(Only available in Europe, Russia, Middle East and Africa)

HK (Nikkiso-KSB)



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	

Two-stage canned motor pump with explosion protection

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_n .

high speed, up to 130 Hz

(Only available in Europe, Russia, Middle East and Africa)

VN (Nikkiso-KSB)



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	

Multistage canned motor pump with explosion protection

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)



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	

Self-priming canned motor pump with explosion protection

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.

Process pumps

RPH®

Process pump
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

Process pump 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, ISO 13709 (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

Process pump VS4 process pump to API 610



DN 25 - 80
Q [m³/h] max. 100
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

CTN



DN	25 - 250
Q [m³/h]	max. 800
H [m]	max. 93
p [bar]	max. 16
T [°C]	max. +300
Data for 50 Hz operation	

Chemical vertical shaft submersible pump

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

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

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.

Process pumps

CHTR

High-pressure pump 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 [min¹] max. 7000
Data for 50 Hz operation,
higher values available upon request

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

 $\mbox{\bf Applications:}$ In refineries, in the petrochemical industry and in steam generation plants.

Reference no. 2701

also available in 60 Hz

YNKR

Process pump 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





DN 32 - 200
Q [m³/h] max. 780
H [m] max. 105
p [bar] max. 10
T [°C] -10 to +100
n [min¹] 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.

also suitable for 60 Hz operation

INVCP / INVCN



DN 32 - 300
Q [m³/h] max. 1600
H [m] max. 116
p [bar] max. 10
T [°C] -10 to +100
n [min¹] max. 3000
Data for 50 Hz operation

Vertical immersion pump for sumps and tanks

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

Applications: Handling of chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.





Hyamaster

also suitable for 60 Hz operation

RWCP / RWCN



DN 50 - 200
Q [m³/h] max. 700
H [m] max. 100
p [bar] max. 16
T [°C] -10 to +100
n [min¹1] max. 3000
Data for 50 Hz operation

Vertical immersion pump for sumps and tanks

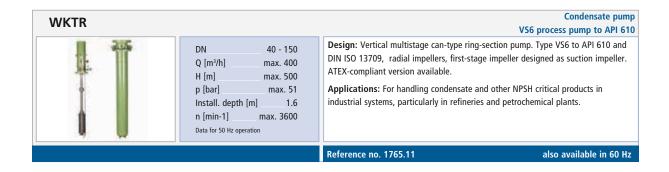
Design: Process pump with free-flow, semi-open or two/three-channel impeller. Shaft sealed by mechanical seal or gland packing with various API pipework plans. Oil-lubricated bearings. ATEX-compliant version available.

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

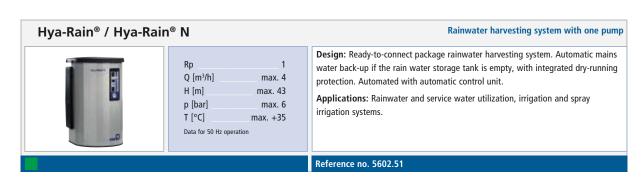
Hyamaster

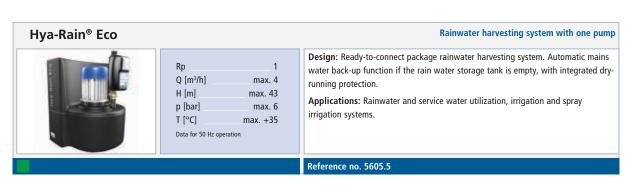
also suitable for 60 Hz operation

Process pumps



Rainwater harvesting systems





Domestic water supply systems with automatic control unit / swimming pools

Multi Eco®

Rp	1-11/4
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 10
T [°C]	max. +50
n [min ⁻¹]	max. 2800

Multistage, self-priming centrifugal pump

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

Controlmatic • Cervomatic

Reference no. 5180.5

Multi Eco®-Pro



1-11/4
max. 8
max. 54
max. 10
max. +50
max. 2800

Multistage, self-priming centrifugal pump with automatic control unit

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



Rp	1-11/4
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 7
T [°C]	max. +50
n [min ⁻¹]	max. 2800

Domestic water supply system

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



Rp	11/2
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	

High-pressure in-line pump in close-coupled design

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

Submersible motor pump

Ixo



Rp	11/4
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

Switchgears • Cervomatic

Reference no. 2146.5

Domestic water supply systems with automatic control unit / swimming pools



2 Q [m³/h] max. 36 H [m] max. 21 max. 2.5 p [bar] T [°C] max. +35 n [min⁻¹] max. 2800 Recirculating pump for swimming pool filtering systems

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





Rp	11/4
Q [m³/h]	max. 6
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60
Data for 50 Hz operation	

Pressure booster system, 1 pump

Design: Fully automatic package single-pump system with 8 I membrane-type accumulator, pressure-controlled starting and flow-controlled stopping. Automated with automatic control unit.

Applications: Water supply systems for residential and office buildings, irrigation/ spray irrigation and rainwater harvesting systems, service water supply systems in

Reference no. 1951.5

Hya®-Solo D



Rp / DN	11/4 / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70
Data for 50 Hz operation	

Pressure booster system, 1 pump

Design: Fully automatic package single-pump system with 8 I 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



Rp / DN	11/4 / 100
Q [m³/h]	max. 110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70
Data for 2900 min ⁻¹	

Pressure booster system, 1 pump

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

Pressure booster systems

Hya®-Compact VP



Rp / DN 11/4 / 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 min¹

Pressure booster system, 2 pumps

Pressure booster system, 2 pumps

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®-Compact K



Rp / DN 11/4 / 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 min¹

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 EN 806-2. 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



 Rp / DN
 2 / 80

 Q [m³/h]
 max. 70

 H [m]
 max. 120

 p [bar]
 max. 16

 T [°C]
 max. +70

 Data for 3500 min¹

Pressure booster system with continuously variable speed control of each pump

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

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

Reference no. 1967.52

Hyamat® K



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

Pressure booster system, 2 to 6 pumps

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 EN 806-2. Automated with Booster Control Advanced.

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

Reference no. 1952.5

Hyamat® V



Rp / DN 1½ / 250
Q [m³/h] max. 660
H [m] max. 160
p [bar] max. 16
T [°C] max. +70
Data for 2900 min¹

Pressure booster system with continuously variable speed adjustment of one pump

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 Booster Control Advanced.

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

Reference no. 1953.51

Pressure booster systems

Hyamat® VP



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

Pressure booster system with continuously variable speed control of each pump

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 Booster Control 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



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

Pressure booster system for industrial applications

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



Rp 1½ - 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

Submersible motor pump

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



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

Submersible motor pump

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 7 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



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

Submersible motor pump

Waste water pump

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. 2541.51 / 2539.51

Rotex®



Rp 11/4 - 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

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

Reference no. 2322.5

MK / MKY



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

Waste water, condensate and heat transfer liquid pump

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

Lifting units / pump stations

AmaDS³



Inflow rate [m³/h] 6 - 120
H [m] max. 85
T [°C] depending on pump
n [min¹] depending on pump
Viscosity [cP] depending on pump
Data for 50 Hz operation,
higher values available upon request

Waste water pump station with solids separation system

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 and 2567.021

Ama-Drainer-Box



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

Automatic waste water lifting unit

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.

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

Reference no. 2336.51

Ama-Drainer-Box Mini



DN 40
Q [m³/h] max. 10
H [m] max. 6.5
T [°C] max. +35
Data for 50 Hz operation

Automatic waste water lifting unit

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



DN 32 - 100
Q [m³/h] max. 36
H [m] max. 25
T [°C] max. +40
Data for 50 Hz operation

Floodable sewage lifting unit

Floodable sewage lifting unit

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®



DN 80 - 100
Q [m³/h] max. 140
H [m] max. 24
T [°C] max. +40*
Data for 50 Hz operation

* up to +65 °C for short periods

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

Lifting units / pump stations

Pump Station CK 800-Eu



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

Pump station, plastic collecting tank with Amarex N S and Ama-Porter S

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 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. 2334.541

Ama-Porter CK Pump Station



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

Pump station, plastic collecting tank with Ama-Porter F

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 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



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

Pump station, plastic collecting tank with Amarex N F

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 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



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

Sewage lifting unit

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

Submersible motor pumps

Amarex® N



DN	32 - 100
Q [m³/h]	max. 190
H [m]	max. 49
T [°C]	max. +55
Data for 50 Hz operation	n

Submersible motor pump DN 32 to 100

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. 2563.5

also available in 60 Hz

Amarex® KRT®



DN	40 - 700
Q [m³/h]	max. 10080
H [m]	max. 100
T [°C]	max. +60
n [min ⁻¹]	max. 2900
Data for 50 Hz operation	

Submersible motor pump DN 40 to DN 700

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; sea water desalination

PumpDrive • Hyamaster • Amacontrol • Switchgears • LevelControl

Reference no. 2553.5

also available in 60 Hz

Amarex® KRT® dry-installed, with cooling jacket



DN	100 - 700
Q [m³/h]	max. 10000
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +40
n [min ⁻¹]	max. 1450
Data for 50 Hz operation	

Submersible motor pump DN 100 to DN 700

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-installed, with energy-saving motor





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

Submersible pumps in discharge tubes

Amacan® K



DN 700 - 1400
Q [m³/h] max. 7200
H [m] max. 30
T [°C] max. +40
n [min¹] max. 980
Data for 50 Hz operation

Submersible motor pump with non-clogging impeller

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 pre-treated 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



DN 500 - 1500
Q [m³/h] max. 25200
H [m] max. 12
T [°C] max. +40
n [min¹] max. 1450
Data for 50 Hz operation

Submersible motor pump with axial propeller

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



DN 650 - 1300
Q [m³/h] max. 10800
H [m] max. 40
T [°C] max. +30
n [min¹] max. 1450
Data for 50 Hz operation

Submersible motor pump with mixed flow impeller

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

Mixers / agitators / tank cleaning units

Amamix



Propeller ø [mm] 200 - 600
Install. depth [m] max. 30
T [°C] max. +40
n [min'1] max. 1400
Data for 50 Hz operation

Submersible mixer

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

Submersible agitator

Cleaning system

Amaprop



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



DN 100 - 150 Q [m³/h] max. 195 T [°C] max. +40 n [min¹] 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



DN	300 - 800
Q [m³/h]	max. 5400
H [m]	max. 2
T [°C]	max. +40
n [min ⁻¹]	max. 960

Submersible motor recirculation pump

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 vane (E), multi-vane (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

DN 40 - 900 (max. 1000)
Q [m³/h] max. 15000
(18000)
H [m] max. 100
p [bar] max. 10
T [°C] -40 to +120 (max. +280)
n [min¹] max. 2900
Data for 50 Hz operation

Non-clogging impeller centrifugal pump / close-coupled unit

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-vane impeller, free-flow impeller. ATEX-compliant version available.

Hyamaster

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

also available in 60 Hz

Slurry pumps

WBC



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

Jurry nun

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.

Slurry pumps

LCC-M



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

Slurry pump

Slurry pump

Slurry pump

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



Q [m³/h]	max. 3865
H [m]	max. 90
p [bar]	max. 16
T [°C]	max. +100

Slurry pump

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



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



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.

Slurry pumps

FGD



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

Slurry pump

Slurry pump

Slurry pump

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.

Mega



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

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



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



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



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 NPSH $_{\rm R}$ and sphere passage for high volume transportation over short distance.

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

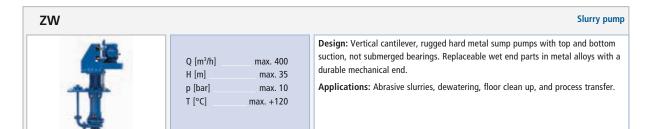
Slurry pumps

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.



Self-priming pumps

sen-prinning pumps



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	

Self-priming pump for pure or contaminated liquids

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



DN	25 - 100
Q [m³/h]	max. 130
H [m]	max. 72
p [bar]	max. 10
T [°C]	max. +90
Data for 50 Hz operatio	n

Self-priming close-coupled pump for pure or contaminated liquids

Design: Horizontal, self-priming volute casing pump, single-stage, with open multivane 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

Submersible borehole pumps

S 100D / UPA 100C



DN 100 max. 16 Q [m³/h] H [m] max. 400 T [°C] max. +30 Data for 50 Hz operation

Submersible borehole pump

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.



Submersible borehole pump



Switchgears • Cervomatic

Reference no. 3400.5

also available in 60 Hz

UPA 150C



Q [m³/h] max. 79 H [m] max. 570 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





Hyamaster • PumpDrive

Reference no. 3400.52

supply, pressure boosting.

Submersible borehole pump

UPA 200, 200B, 250C



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.

Reference no. 3400.5

also available in 60 Hz

Submersible borehole pump

UPA 300, 350



300 - 350 max. 840 Q [m³/h] 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



Q [m³/h] max. 2200 H [m] max. 1500 T [°C] max. +50 Data for 50 Hz operation

Submersible borehole pump

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

High-pressure pumps, fixed / variable speed

Movitec® V / LHS / VS / VC



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

High-pressure in-line pump

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

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® PumpDrive



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

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

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

High-pressure pump in ring-section design

Multitec®



DN 32 - 150
Q [m³/h] max. 850
H [m] max. 630 (1000)
p [bar] max. 63 (100)
T [°C] -10 to +200
n [min¹] max. 4000
Data for 50 Hz operation,
data for 60 Hz operation,

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. 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



DN 32 - 125 Q [m³/h] max. 180 H [m] max. 630 p [bar] max. 63 T [°C] max. +140 n [min¹] max. 4000

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

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

Axially split pumps

Omega®



DN 80 - 350
Q [m³/h] max. 2880
H [m] max. 210
p [bar] max. 25
T [°C] max. +80
n [min¹¹] max. 2900
Data for 50 Hz operation,
higher values available upon request

Axially split volute casing pump DN 80 - 350

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.

FLUID

Hyamaster • PumpMeter

Reference no. 1384.5

also available in 60 Hz, also suitable for 60 Hz operation

RDLO



DN 350 - 700
Q [m³/h] max. 10000
H [m] max. 240
p [bar] max. 25
T [°C] max. +80
n [min¹] max. 1500
Data for 50 Hz operation,
higher values available upon request

Axially split volute casing pump DN 350 - 700

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

Reference no. 1385.51 / 1387.5

long-distance water supply systems.

also available in 60 Hz, also suitable for 60 Hz operation

RDLP



DN 350 - 1200
Q [m³/h] max. 18000
H [m] max. 550
p [bar] max. 64
T [°C] max. +80
n [min⁻1] max. 1500
Data for 50 Hz operation,
higher values available upon request

Axially split volute casing pump DN 350-1200

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

also available in 60 Hz, also suitable for 60 Hz operation

Hygienic pumps for the food, beverage and pharmaceutical industries

Vitachrom



DN	50 - 125
Q [m³/h]	max. 340
H [m]	max. 100
p [bar]	max. 12
T [°C]	max. +140
Data for 50 Hz operation	

Rolled steel centrifugal pump

Design: Maintenance-friendly annular casing pump, close-coupled with standardised motor, all wetted components made of 1.4404/1.4409 stainless steel. CIP/SIP-compatible, certified by the TNO Nutrition and Food Research Institute to EHEDG standards for processing food products.

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® / Vitacast® E



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	

Investment cast centrifugal pump

Design: Maintenance-friendly volute casing pump with standardised motor, all wetted components made of 1.4404/1.4409 stainless steel. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards (Vitacast E).

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

PumpDrive

Reference no. 1969.51 / 1969.52

also available in 60 Hz

Vitaprime®



DN	40 - 80
Q [m³/h]	max. 55
H [m]	max. 45
p [bar]	max. 10
T [°C]	max. +140
Data for 50 Hz operation,	

Self-priming centrifugal pump

Design: Maintenance-friendly, self-priming side channel pump in close-coupled design with standardised motor, all wetted components made of 1.4404/1.4409 stainless steel. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible).

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®



Q [m³/h]	max. 40
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +140
Data for 50 Hz operation,	

Multistage centrifugal pump

Design: Multistage centrifugal pump in close-coupled design for vertical or horizontal installation. All wetted components made of 1.4401/1.4408 stainless steel.

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

Rotary lobe pump

Vitalobe®



DN	25 - 200 (1" - 8")	
Q [m³/h]	max. 300	
H [m]	max. 200	
p [bar]	max. 30	
T [°C]	-40 to +200	
Viscosity [cP]	≤ 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 stainless steel; various rotor types and process connections available. Pump set with geared motor.

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

Pumps for power station conventional islands

CHTA / CHTC / CHTD



DN	100 - 500
Q [m³/h]	max. 3700
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [min ⁻¹]	max. 6750
Data for 50 Hz operation, higher values available upon request	

Boiler feed pump

Design: Horizontal, high-pressure barrel-type pump with radial impellers, singleand 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



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	

Boiler feed pump

 $\label{periodical} \textbf{Design:} \ \ \textbf{Horizontal,} \ \ \textbf{radially split,} \ \ \textbf{multistage ring-section pump with radial impellers,} \ \ \textbf{single-} \ \ \textbf{or double-entry.}$

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

Boiler feed pump

HGM®



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,	

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



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	

Boiler feed booster pump

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. 1130.5

also available in 60 Hz

LUV® / LUVA



DN	100 - 550
Q [m³/h]	max. 7000
H [m]	max. 275
p [bar]	max. 320
T [°C]	max. +420
n [min ⁻¹]	max. 3600
Higher values available upon request	

Boiler recirculation pump

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 or ASME.

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

Reference no. 1127.021

Pumps for power station conventional islands

WKTA / WKTB



DN	150 - 300
Q [m³/h]	max. 1800
H [m]	max. 370
p [bar]	max. 40
T [°C]	max. +100
n [min ⁻¹]	max. 1800
Data for 60 Hz operation, higher values available upon request	

Condensate pump

Design: Vertical can-type ring-section pump. Radial and mixed flow impellers, multistage. Single-entry and double-entry suction impellers. Flanges to DIN or ANSI. Also available in re-entry design.

Applications: For handling condensate in power stations and industrial systems.

Reference no. 0361.033

also available in 60 Hz

Cooling water pump

SEZ / SEZT / PHZ / PNZ



 Q [m³/h]
 max. 80000

 H [m]
 max. 100

 T [°C]
 max. +40

 n [min¹¹]
 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

Cooling water pump

SNW / PNW



DN 350 - 800
Q [m³/h] max. 9000
H [m] max. 50
p [bar] max. 10
T [°C] max. +60
n [min¹] 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



Q [m³/s] max. 30 H [m] max. 27 Data for 50 Hz operation, higher values available upon request Concrete volute casing pump

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



DN 350 - 1200
Q [m³/h] max. 21600
H [m] max. 50
p [bar] max. 10
T [°C] max. +105
n [min¹] max. 1480
Data for 50 Hz operation, higher values available upon request

Cooling water pump

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. 2384.51

Pumps for nuclear power plants

RER

DN max. 800
Q [m³/h] max. 40000
H [m] max. 140
p [bar] max. 175
T [°C] max. +350
n [min¹] max. 1800
Higher values available upon request

Reactor coolant pump

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

Reactor coolant pump

RSR



DN max. 750
Q [m³/h] max. 24000
H [m] max. 215
p [bar] max. 175
T [°C] max. +350
n [min¹] 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

Reactor coolant pump

RUV



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)

available in 50 Hz and 60 Hz

PSR



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	

Reactor internal pump

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

Feed water pump

RHD



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.

 $\label{lem:policy} \textbf{Applications:} \ \ \text{Main feed water supply (MFWS)} \ \ \text{in steam generation systems of nuclear power plants.}$

Reference no. 1668.023

Pumps for nuclear power plants

LUV® - Nuclear



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

Reactor coolant / reactor water clean-up pump

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. 1128.021

available in 50 Hz and 60 Hz

RHM



DN max. 150
Q [m³/h] max. 300
H [m] max. 2100
p [bar] max. 220
T [°C] max. +180
n [min¹] max. 8000
Higher values available upon request

Pump for safety-related and auxiliary systems

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



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	

Pump for safety-related and auxiliary systems

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. 166.021

available in 50 Hz and 60 Hz

RHR



DN max. 500
Q [m³/h] max. 6000
H [m] max. 190
p [bar] max. 63
T [°C] max. +200
n [min¹] max. 3600

Pump for safety-related and auxiliary systems

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



DN max. 500
Q [m³/h] max. 6000
H [m] max. 190
p [bar] max. 63
T [°C] max. +200
n [min¹] max. 3600

Pump for safety-related and auxiliary systems

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. 166.021

Pumps and pressure exchangers for seawater desalination by reverse osmosis

SalTec® System



 $Q [m^{3}/day]$ ≥ 10000 p [bar] max. 80 T [°C] max. +40 Hydraulic system

Pressure exchanger

Design: Hydraulic system for pressure boosting and energy recovery in reverse osmosis processes for seawater desalination.

Components: SalTec® DT pressure exchanger, HGM-RO high-pressure pump, RPH-RO booster pump and control unit.

Applications: Seawater desalination by reverse osmosis.

Reference no. 1858.11

SalTec® DT



Q [m³/h] max. 280 p [bar] max. 80 T [°C] max. +40 **Description:** Pressure exchanger specially developed for use in RO seawater desalination systems, in duplex stainless steel (standard) or supe-duplex stainless steel (on request).

Reference no. 1858.1

RPH®-RO



DN 25 - 400
Q [m³/h] max. 4150
H [m] max. 270
p [bar] max. 104
T [°C] max. +50
Data for 50 Hz operation

Booster pump

Design: Horizontal, radially split volute casing pump, dry-installed, made of duplex stainless steel (standard) or super-duplex stainless steel (on request).

 $\label{eq:Applications:Booster pump for RO seawater desalination systems.}$

also available in 60 Hz

High-pressure pump

HGM®-RO



DN 65 - 250
Q [m³/h] max. 1500
H [m] max. 950
p [bar] max. 120
T [°C] max. +40
n [min¹] 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



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 operation,
data for 60 Hz operation

High-pressure pump in ring-section design

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.

 $\label{prop:prop:solution} \textbf{Applications:} \ \textbf{High-pressure pump for RO seawater desalination systems.}$

Hyamaster • PumpDrive

Reference no. 1777.5

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.

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

Reference no. 5125.178

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.

 $\begin{tabular}{ll} \textbf{Applications:} Water supply systems, in combination with pump types $ 100D, UPA 150S, etc. \end{tabular}$

Reference no. 3465.1

Control units

hyatronic N



 $\begin{tabular}{ll} No. of pumps & max. 6 \\ [kW] & 22 \\ Voltage [V] & 3 \sim 400 \\ higher values available upon request \\ \end{tabular}$

Pump control system for cascade starting and stopping

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

PumpDrive



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

Self-cooling, motor-independent variable-speed system

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



 No. of pumps
 max. 1

 FI
 max. 1

 [kW]
 7.5

 Voltage [V]
 3~400

Pump control system for continuously variable speed adjustment

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



 No. of pumps
 max. 8

 FI
 max. 2

 [kW]
 200

 Voltage [V]
 3-400

Pump control system for continuously variable speed adjustment

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

Speed control

Hyamaster SPS



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

Pump control system for continuously variable speed adjustment

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



No. of pumps max. 1
Type see pump type series
Installation factorymounted, IP 65
Voltage 24 V DC

Intelligent pressure transmitter

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



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

Monitoring system for submersible waste water pumps

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 bis +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.

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



Reference no. 7540.1



KSB SuPremE® – the world's most efficient magnet-less pump motor.

The new KSB SuPremE® motor generation cuts energy costs by up to 70%*. Satisfying tomorrow's IE4 efficiency requirements (to IEC [CD] 60034-30 Ed.2) today, the motors are already outclassing what the European ErP regulations have targeted for 2017. Moreover, by doing completely without magnetic materials, KSB SuPremE® motors make a significantly smaller environmental footprint than comparable permanent-magnet synchronous motors and asynchronous motors. Their particular combination of robust materials and sturdy design makes them especially durable. Invest today in tomorrow's slender drives. www.none-more-efficient.com

^{*} Depending on the load profile, for centrifugal pumps, compared with control by throttling and IE2 asynchronous motors





you can save even more energy.

Etanorm is a classic that keeps getting more efficient. It meets the energy efficiency requirements of the ErP Directive for 2015 already today – for three good reasons: optimised hydraulic components for pace-setting efficiency, individual impeller trimming, and ideally matching drives and automation components. Etanorm is available really fast, comes in numerous variations, and provides the unique reliability of a globally identical product. For more information, please visit www.etanorm.com



Pumps • Valves • Service



Notes



Energy: we spend all ours to save lots of yours.

FluidFuture® is our comprehensive energy efficiency concept for your entire hydraulic system. Its aim is to optimise your plant's overall efficiency. To make that reality, we've developed five interlocking modules. Together they enable us to identify and achieve savings right through the life cycle of your pumps and valves. That's where our highly efficient products come into play, products that already meet or exceed the ErP regulations for 2015. And by optimising overall efficiency we help your plant run even better, longer and more cheaply. FluidFuture® is good news for your company, the environment and generations to come. Find out more on www.ksb.com/fluidfuture



Your local KSB representative:

The KSB newsletter – don't miss out, sign up now: www.ksb.com/ksb-en/ Newsletter

