

KSB PRODUCTION PROGRAMME



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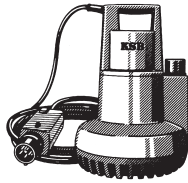
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High-temperature installations																																						
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Hydraulic solids transport																																						
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Lowering / maintaining ground water levels																																						
Maintaining and lowering water levels																																						

Pump types ► Applications ▼	Ama-Drainer	Ama-Drainer-Box	Ama-Lift, Ama-Sani	Ama-Porter, Ama-Porter ICS	Amacan P, Amacan K	Amacan S	Amaline	Amatrix, Amagrop	Amaresx Pumping Station CK / Amaresx Pumping Station CB	Amaresx, Amaresx KRT	Cervomatic EDP / Controlmatic E	CHTC, CHTD	CHTR	CPK-H, CPK-D, CPK-O	CPK, CPKN, Euro CPK	CPP	Eta R	Etachrom NC, Etachrom BC	Etaline, Etaline Z	Etaline-Hya-Drive, Hya-Drive	Etanorm	Etanorm MX, Eta RX	Etanorm SYN, Etaloc SY, Etaline SY, Etanormo SY	Etanorm, Etaloc, Etaseco	Etaprime UB/BN	Eta-VL-Oil	Etachem	Getec	HGB, HGC, HGD	HGM, HGMRO	HMBS, VMBS	HPK/HPK-L, HPH	HVR, WKVR	Hya-Eco					
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Offshore applications																																				●			
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Ore dressing processes																																							
Organic chemicals														●	●																			●	●				
Paint shops								●	●				●	●	●					●	●	●		●	●														
Petrochemical industry														●	●	●	●				●																		
Pharmaceutics																			●																				
Pressure boosting									●									●						●													●		
Product transfer / Shipping onsite - offsite														●	●																								
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Recycling																					●																		
Refinery off-sites														●	●																								
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CHAPTER 1

Waste water and sewage pumps, as well as pumps for waste water treatment systems in industrial, municipal and building services facilities

Ama-Drainer



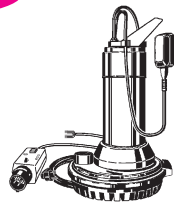
DN	32–100
Q l/s	36
H m	26
p bar	–
t °C	+90*
n 1/min	2800

Submersible motor pumps for handling waste water.
Ama-Drainer B for sand-containing water.
Ama-Drainer C for handling aggressive water.
Ama-Drainer R for oil-containing water.

* for short periods only

Ama-Drainer

New!

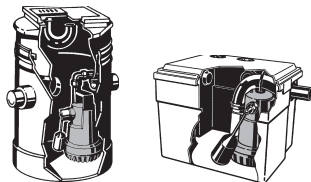


G	40-50
Q l/s	14
H m	21
p bar	–
t °C	+90*
n 1/min	2800

Vertical, fully floodable submersible motor pump without cooling jacket. Ama-Drainer 10 for handling slightly contaminated water (retrofitable cooling jacket).
Ama-Drainer 35 can cope with long fibres and substances liable to twist and bunch.

* for short periods only

Ama-Drainer-Box



DN	32–40
Q l/s	10
H m	24
p bar	–
t °C	40
n 1/min	2800

Above-floor box: stable plastic tank with submersible motor pump type Ama-Drainer switched on and off automatically.
Underfloor box: impact-resistant plastic collecting tank with floor drain and odour trap, with submersible motor pump type Ama-Drainer switched on and off automatically and return stop.

Ama-Porter



DN	50, 65
Q l/s	11
H m	16
p bar	–
t °C	+70*
n 1/min	2900

Vertical, submersible motor pump for handling all types of waste water.
Stationary (guide rope and rod arrangement) or portable version.

* for short periods only

Ama-Porter ICS



DN	50, 65
Q l/s	11
H m	16
p bar	–
t °C	+70*
n 1/min	2900

Ama-Porter with integrated, automatic pump control ICS.
The Intelligent Control System (ICS) optimises the entire pump control cycle. ICS eliminates the need for float switches and control cabinets. It ensures trouble-free operation, can be retrofitted and allows a combination of several pumps.

* for short periods only

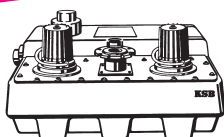
Ama-Lift Ama-Sani



	Ama-Lift	Ama-Sani
DN	32	25–32
Q l/s	1.4	1.1
H m	10	5.7
p bar	–	–
t °C	+35	+35
n 1/min	2800	2800

Automatic, small plug-in sewage lifting unit with cutter, integrated swing check valve and activated charcoal filter.
Ama-Lift features also acoustic signal unit.

Compacta mini-Compacta

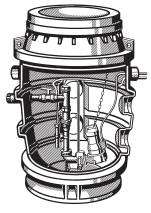


DN	50–100
Q l/s	37.5
H m	24
t °C	+65*
n 1/min	2800

Submersible sewage lifting units, single or duplex pump sets.
mini-Compacta US 7 with cutter; may also be used for pumped drainage.

* for short periods only

**Amarex-
Pumping Station CK**



DN	40–50
Q l/s	9.7
H m	40
p bar	–
t °C	55
n 1/min	2900

Ready-to-install, packaged pumping station with plastic collecting tank. Waste water disposal from buildings and premises below the back-wash level. Redevelopment of premises, disposal of water from private homes, commercial and industrial as well as municipal premises. Collective disposal from housing estates (e.g. terraced houses). Pumped drainage.

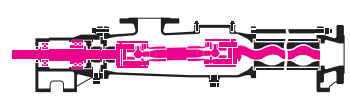
Rotex



Rp	1 1/4–2
Q l/s	7
H m	14
p bar	–
t °C	+90
n 1/min	2900

Vertical shaft submersible pump for handling condensate and slightly contaminated water (particle size max. 18 mm) not containing substances liable to twist and bunch.

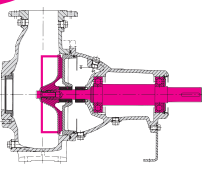
Getec



DN	25–250
Q l/s	83
H m	240
p bar	up to 24
t °C	100
n 1/min	2000

Rotating positive displacement pump with single-helical rotor for handling slurries in effluent treatment plants. The pump will transfer highly viscous media with a high solids content, as well as gas-containing sludges. Particularly suitable for use as dosing pump.

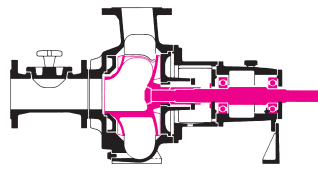
**Sewatec/
Sewabloc**



DN	50–500
Q l/s	up to 1400
H m	up to 93
p bar	up to 10
t °C	up to 70
n 1/min	up to 2900
P kW	up to 132

Volute casing pumps for handling contaminated, solids-containing liquids, sewage, waste water and all types of sludge in waste water, process and plant engineering as well as industrial applications. Used in municipal and industrial waste water transport and effluent treatment plants. Dry-installed horizontal or vertical pump in back pull-out or close-coupled design with single-vane impeller (E), free-flow impeller (F) or multiple-channel impeller (K).

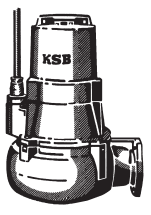
KRP/KVR/KVP



DN	200–600
Q l/s	up to 1300
H m	up to 90
p bar	up to 10
t °C	up to 70
n 1/min	up to 1450

Volute casing pumps for handling all types of sewage/waste water and sludge as well as for the gentle transport of solids. Used in municipal and industrial waste water transport and effluent treatment plants. Dry-installed horizontal pump in back pull-out design with single-vane impeller (E) or non-clogging impeller (K).

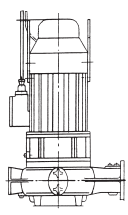
**Amarex/
Amarex KRT**



DN	40–700
Q l/s	up to 1700
H m	up to 100
p bar	up to 16
t °C	up to 60
n 1/min	up to 2900

Submersible motor pumps for handling municipal and industrial waste water. Monobloc units for wet installation in stationary and transportable design, with free-flow, single-vane or non-clogging impeller / cutter. Explosion protection to EURO standards and industrial materials available.

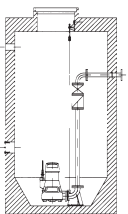
Amarex KRT B



DN	100–500
Q l/s	900
H m	100
t °C	40
n 1/min	up to 1450

Dry-installed submersible motor pump for waste water management applications, particularly suitable for untreated waste water containing stringy and solid substances.

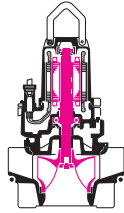
**Amarex-
Pumping Station CB**



DN	40–100
Q l/s	up to 190
H m	up to 40
t °C	55

Ready-to-install, packaged pumping station with ferro-concrete collecting tank. Designed as single and duplex pumping station equipped with Amarex submersible motor pumps. Used for disposal and drainage in the building services sector, in basement garages, cellars, multi-storey subterranean buildings, pumped drainage systems.

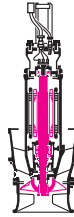
Amacan K



Discharge column DN	700–1300
Q l/s	up to 2000
H m	30
p bar	–
t °C	up to +40
n 1/min	up to 980
P kW	up to 320

Submersible motor pump in tubular shaft design equipped with non-clogging impeller (K). Suitable for handling pre-cleaned, chemically neutral waste water and sewage. Used in irrigation and drainage pumping stations, as waste water, combined sewage and activated sludge pumps in effluent treatment plants, as storm water pumps in drainage stations, for water pollution and flood control, for industrial effluent and media not containing any stringy substances (pre-treated by screens or sills).

Amacan P



Discharge column DN	500–1500
Q l/s	up to 7000
H m	up to 12
p bar	–
t °C	up to 40
n 1/min	up to 1450
P kW	up to 700

Submersible motor pump in tubular shaft design equipped with axial propeller (P). Used in irrigation and drainage pumping stations, as storm water pumps in drainage stations, as untreated and clean water pumps in waterworks and effluent treatment plants, as cooling water pumps in power stations and industrial processes, for industrial water supply, water pollution and flood control, aquaculture.

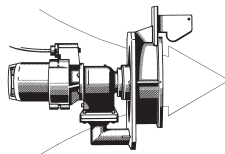
Amacan S



Discharge column DN	650–1600
Q l/s	up to 4000
H m	up to 50
t °C	up to 40
n 1/min	1450
P kW (low voltage)	1000
(high voltage)	700

Submersible motor pumps in tubular shaft design for handling water not containing substances liable to twist and bunch. Used for irrigation and drainage pumping stations, for general water supply as well as for water pollution and flood control. Monobloc unit with mixed-flow impeller.

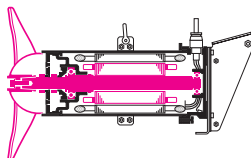
Amaline



Nominal prop. diameter	300, 500, 800
Q l/s	up to 1500
H m	up to 2
p bar	–
t °C	up to 40
n 1/min	180–960
P kW	up to 16

Wet-installed, horizontal propeller pump with submerged motor; equipped with spur gear or direct drive. ECB propeller with 3 rigid, fibre-repellent blades. Connection to the discharge pipe without bolts. Used for recirculation of activated sludge in effluent treatment plants.

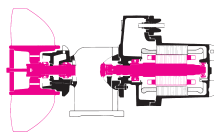
Amamix



Nominal propeller diameter	215–600
n 1/min	up to 1400
P kW	10
t °C	40

Horizontal, submerged motor mixer with direct drive equipped with self-cleaning propellers. Used for mixing, homogenising and thickening municipal and industrial waste water.

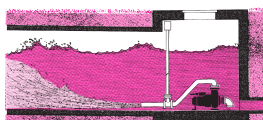
**Amamix/
Amaprop**



Nominal propeller diameter	500–1800
n 1/min	up to 460
P kW	16
t °C	40

Horizontal, submerged motor mixer/agitator with self-cleaning propellers; equipped with coaxial spur gear. Used for recirculation, dispersion and keeping substances in suspension in municipal and industrial waste water treatment plants.

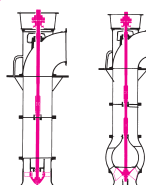
**Wirbeljet-
System**



DN	100
P kW	5.5–16

Stationary or compact unit with horizontal or vertical submersible jet pump with non-clogging free-flow impeller. Used for cleaning stormwater tanks and storage-capacity sewers.

PNW/SNW



	PNW	SNW
DN	300–700	400–1200
Q l/s	3000	6000
H m	9	80
p bar	6	10
t °C	+60	+60
n 1/min	1450	1450

Tubular casing pumps with maintenance-free Residur® shaft bearings for handling sewage not liable to twist and bunch. Used for irrigation and drainage, in combined waste water pumping stations, effluent treatment plants as well as for water pollution and flood control. PNW with axial propeller, also in Ever-Clean Blade design; SNW with mixed flow impeller.

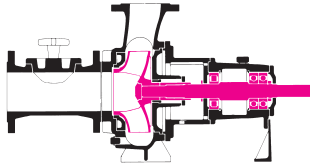
Wellstar



DN	80–250
Q l/s	180
H m	350
p bar	up to 30
t °C	up to +60
n 1/min	1450–3600

Deep-well turbine pump for handling untreated, clean and service water.

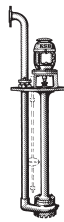
KWP



DN	40–800
Q l/s	3055
H m	100
p bar	10
t °C	–30/+280
n 1/min	up to 3500

Non-clogging impeller centrifugal pumps for handling pre-treated sewage, waste water, slurries without stringy substances and pulps up to 5 % bone dry. Various impeller geometries: non-clogging impeller, open impeller and free-flow impeller, worm-type impeller.

MK/MKY



DN	50
Q l/s	10
H m	19
p bar	6
t °C	+200
n 1/min	2800

Submerged pumps for handling waste water, oils, emulsions, condensate (MK, MKA), hot water and heat transfer media (MKY); available with level switch.

CHAPTER 2

Pumps for water recovery, supply and treatment for industrial, municipal and building services applications

Hya-Rain



DN	R ¾, R1
Q l/s	1.1
H m	43
p bar	6
t °C	35

Compact, ready-to-connect rain water utilisation system with self-priming centrifugal pump, control and monitoring unit, tank with integrated mains water back-up system and Class A air gap to DIN 1988. For the collection of rain water, Hya-Rain can be combined with subterranean or basement-installed storage systems.

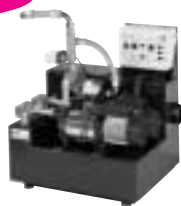
Hya-Rain U Ixo RWS



DN	R ¾
Q l/s	4.5
H m	45
p bar	6
t °C	+35

Ready-to-connect rain water utilisation system comprising submersible motor pump with floating-suction water intake as well as a module with integrated mains water back-up system and Class A air gap to DIN 1988 and DVGW (German Association of the Gas and Water Sector). Suitable if a large distance between house and cistern must be covered. No suction problems; no pumping noise audible in the house since the submersible motor pump is located in the cistern.

Hya-Rain Duo



DN	Rp 1, G 1 ¼
Q l/s	2 x 1.1
H m	55
p bar	10
t °C	+35
n 1/min	2800

Compact, ready-to-connect rain water utilisation system with self-priming multistage centrifugal pumps, control and monitoring unit, tank with integrated mains water back-up system and Class A air gap to DIN 1988. The pumps are operated alternately. If the pressure falls below the set minimum pressure, the second pump is switched on as peak load pump. For the collection of rain water, Hya-Rain Duo can be combined with subterranean or basement-installed storage systems.

Hya-Rain All-in-Kit



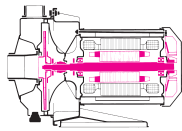
+



DN	R ¾, R1
Q l/s	1.1
H m	43
p bar	6
t °C	35

The all-in kit comprises the Hya-Rain rain water utilisation system and a high-quality cistern with integrated filtering system. If a storage tank is already in place, the filter can also be retrofitted. The cistern made of high-grade polyethylene is available in three sizes (a volume of 3500 l, 6000 l or 9000 l).

Multibloc CA



DN	40
Q l/s	5.3
H m	60
p bar	8
t °C	-10/+110
n 1/min	2800

Single- or double-stage close-coupled pump of deep-drawn chrome nickel steel for handling pure and aggressive liquids not containing abrasive or solid substances.

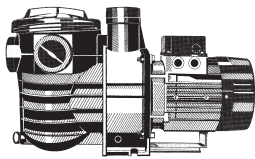
**Ixo
Ixo RWS**



	Ixo	Ixo RWS
DN	G 1 1/4	G 1 1/4
Q l/s	2.2	1.25
H m	65	65
p bar	6	6
t °C	+35	+35
n 1/min	2900	2900

Multistage, clean-water submersible motor pump for garden sprinkling, irrigation, rain water utilisation and general water supply duties.
Ixo RWS: with floating-suction water intake.

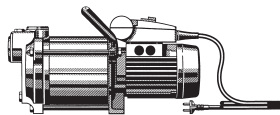
Filtra



DN	50
Q l/s	10
H m	21
p bar	2.5
t °C	35
n 1/min	-

Recirculating pump for handling clean or slightly contaminated water in swimming pool filtering systems; swimming pool water with a chlorine content > 0.3 %; ozonised swimming pool water; seawater with a salt content of up to 3.5 %; thermal water.

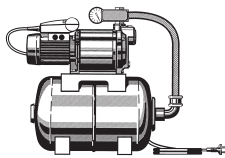
Multi Eco



DN	25
Q l/s	2.22
H m	54
p bar	10
t °C	70
n 1/min	-

Multistage, self-priming centrifugal pump in close-coupled design for domestic water supply, irrigation and rain water utilisation.

Multi Eco-Top



DN	25
Q l/s	2.22
H m	54
p bar	2.5
t °C	70
n 1/min	-

Domestic water supply system for one- or two-family houses, agricultural facilities, irrigation systems and washing plants.

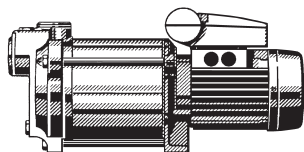
Multi Eco-Pro



DN	25
Q l/s	2.22
H m	54
p bar	10
t °C	35
n 1/min	-

Multistage, self-priming centrifugal pump in close-coupled design, with automatic control unit, for domestic water supply to one- or two-family houses, agricultural facilities, irrigation systems and washing plants.

Multichrom S



Rp	1-1 1/4
Q l/s	2.22
H m	56
p bar	10
t °C	-10/+80
n 1/min	2900

Multistage, horizontal, non-priming centrifugal pump. Suction and discharge connections with internal thread are arranged in the pump casing. Stainless steel hydraulic, for all non-aggressive liquids.

Hya-Eco



Rp	2
Q l/s	16.6
H m	100
p bar	10
t °C	+70
n 1/min	2900

Fully automatic package pressure boosting unit (PBU), with 2 to 4 vertical high-pressure pumps and electronic control; as a standard, with volt-free change-over contact for general fault indication and live-zero monitoring of the connected sensors. Design and function to DIN 1988, Part 5.

**Hyamat K
Hyamat V**



DN	R 2 1/2 (DN 65)
Q l/s	100 with max. 6 pumps
H m	160
p bar	16
t °C	70
n 1/min	-

Fully automatic package pressure boosting and fire-fighting units, with 2 to 6 vertical high-pressure pumps, for use in residential buildings, hospitals, office buildings, hotels, department stores and in industry.

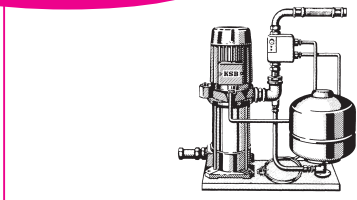
Hyamat VP



DN	R 2 1/2 (DN 65)
Q l/s	42
H m	130
p bar	16
t °C	70
n 1/min	-

Fully automatic package pressure boosting unit with 2 to 4 variable-speed vertical high-pressure pumps for automatic control of the required supply pressure. The unit is suitable for use in residential buildings, hospitals, office buildings, hotels, department stores and in industry.

Hya-Solo



DN	-
Q l/s	18
H m	150
p bar	16
t °C	max. 70
n 1/min	2900

Fully automatic package pressure boosting and fire-fighting unit started and stopped depending on the pressure.

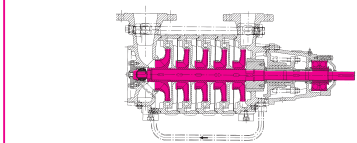
**Movichrom N/
Movichrom NB**



DN	25-80
Q l/s	18
H m	250
p bar	25
t °C	-30/+120
n 1/min	1450/3500

Multistage, vertical or horizontal high-pressure centrifugal pumps in ring-section design, with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design). (NB = close-coupled pumps)

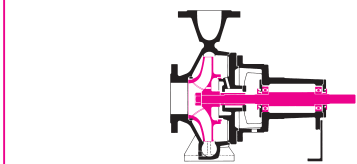
Multitec



DN	32-150
Q l/s	236
H m	630
p bar	63
t °C	-10/+200
n 1/min	up to 4000

High-pressure multistage centrifugal pump in horizontal and vertical design for handling pure and chemically aggressive media.

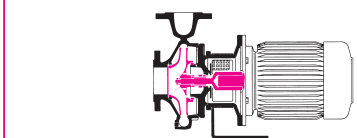
Etanorm



DN	32-150
Q l/s	183
H m	102
p bar	16
t °C	-30/+140
n 1/min	3600

Volute casing pump to EN 733 for handling pure and aggressive liquids not containing abrasive or solid substances.

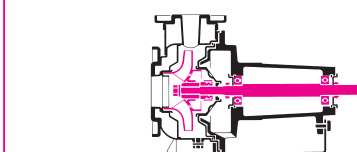
Etabloc



DN	25-150
Q l/s	153
H m	95
p bar	16
t °C	-30/+140
n 1/min	3600

Close-coupled pump for handling pure and aggressive liquids not containing abrasive or solid substances.

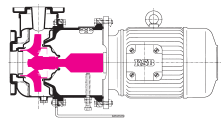
Etachrom NC



DN	25-80
Q l/s	72
H m	106
p bar	12
t °C	-30/+110
n 1/min	3600

Annular casing pumps of deep-drawn chrome nickel molybdenum steel, with rated powers and main dimensions to EN 733, for handling pure and aggressive liquids not containing abrasive or solid substances.

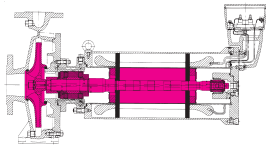
Etachrom BC



DN	25–80
Q l/s	70
H m	108
p bar	12
t °C	–30/+110
n 1/min	3600

Close-coupled pumps of deep-drawn chrome nickel molybdenum steel, with rated powers to EN 733, for handling pure and aggressive liquids not containing abrasive or solid substances.

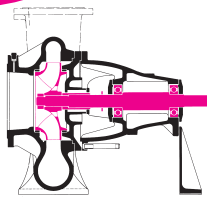
Etaseco



DN	32–100
Q l/s	70
H m	100
p bar	16
t °C	–30/+140
P kW	1.4–18

Canned motor pump for handling aggressive, inflammable, toxic, volatile or valuable liquids. In addition, Etaseco is suitable for applications requiring low noise emission, quiet running and long servicing intervals (high operating reliability).

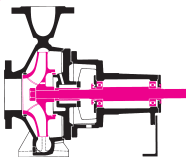
Eta R



DN	125–300
Q l/s	530
H m	90
p bar	10
t °C	–30/+110
n 1/min	1800

Volute casing pump for handling pure liquids not containing abrasive or solid substances.

**Etanorm MX/
Eta RX**

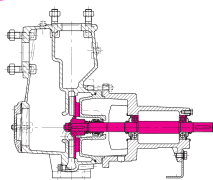


DN	50–200
Q l/s	166
H m	105
p bar	16
t °C	+20
n 1/min	3000

Volute casing pumps for sprinkling systems to VDS²⁾ for handling fire-fighting water not containing abrasive or solid substances.

²⁾ VDS conformity mark required for Germany only.

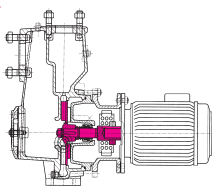
Etaprime L



DN	25–125
Q l/s	47
H m	90
p bar	10
t °C	–30/+90
n 1/min	3600
Hs	up to 9 m

Self-priming long-coupled pump in back pull-out design for handling pure, contaminated or aggressive liquids not containing abrasive or solid substances.

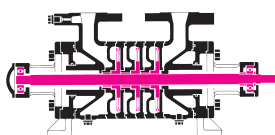
Etaprime B/BN



DN	25–100
Q l/s	36
H m	64
p bar	10
t °C	–30/+90
n 1/min	3600
Hs	up to 9 m

Self-priming close-coupled pumps for handling pure, contaminated or aggressive liquids not containing abrasive or solid substances.

Norex



	AHO	AHN	AHR/AHRS
DN	25–40	25–50	20–50
Q l/s	2.1	5.6	5.6
H m	155	250	308
p bar	16	25	40
t °C	–20/+120	–20/+120	–40/+200
n 1/min	1450	1450	1450

Multistage side channel pump for handling pure liquids not containing abrasive or solid substances.

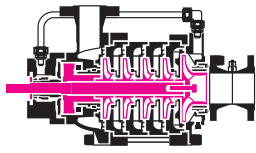
SEZ/PNZ/PHZ



DN	700–2400
Q l/s	18000
H m	33
p bar	10
t °C	80
n 1/min	1000

Vertical, single-stage tubular casing pumps with axial or mixed flow propeller or mixed flow impeller and maintenance-free, medium-lubricated Residur[®] radial bearings for handling untreated, clean and service water as well as cooling water.

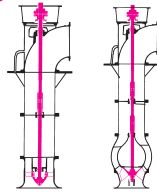
HGMRO



DN	80–150	
Q l/s	85	
H m	900	
p bar	10	
t °C	+60	
n 1/min	3600	

Horizontal ring-section pump with medium-lubricated plain bearings for handling sea-water in RO systems.

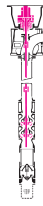
PNW/SNW



	PNW	SNW
DN	300–700	400–1200
Q l/s	3000	6000
H m	9	80
p bar	6	10
t °C	+60	+60
n 1/min	1450	1450

Tubular casing pumps with maintenance-free, medium-lubricated Residur® shaft bearings for handling untreated water. Used for irrigation and drainage, as well as for water pollution and flood control. PNW with axial propeller, also available with Ever Clean Blade. SNW with mixed flow impeller.

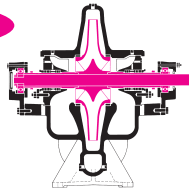
Wellstar, B, FB



DN	80–500	
Q l/s	720	
H m	300	
t °C	60	

Deep-well turbine pumps, single- or multi-stage with mixed flow impellers and maintenance-free, medium-lubricated radial bearings.

**Omega
RDLO/RDL/RDLP**



	Omega	RDL/RDLO	RDLP/LH
DN	80–350	400–800	150–1000
Q l/s	800	3000	6500
H m	170	200	700
p bar	25	25	100
t °C	+100	+105	+105/+175
n 1/min	2900	1800	3600

Omega/RDL/RDLO: single-stage volute casing pumps for handling clean, untreated and service water, as well as seawater. Horizontal (Omega, RDL, RDLO) or vertical (Omega V, RDLV, RDLOV) installation.
RDLP: volute casing pumps (1, 2 or 3 stages) for handling clean, untreated and service water, seawater, hydrocarbons and crude oil. Horizontal installation.

UPA/UPZ



	UPA	UPZ
Q l/s	0.2–695	25–620
H m	10–610	35–1500
p bar	≤ 70	≤ 160
t °C	≤ +50	≤ +50
n 1/min	1450–3500	1450–3500

Single- / multistage centrifugal pumps in ring-section design; single-entry with parallel impellers (UPA) and double-entry with impellers in back-to-back arrangement (UPZ); for vertical and horizontal installation; suitable for handling untreated, clean, service and cooling water as well as hydrocarbons. Driven by UMA submersible motors with $P_N \leq 3500$ kW.

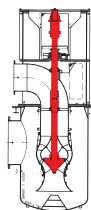
S 100B



Q l/s	4.44
H m	300
p bar	5.5
t °C	+30

Submersible borehole pump for 100 mm (4 inch) well diameters and above. Multistage pump made of stainless steel or plastic; ready-to-connect design; single-phase a.c. motor. Unit comes complete with starter, fastening rope and power supply cable.

SEZT



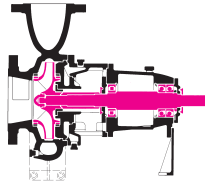
DN	300–1600	
Q l/s	7000	
H m	130	
p bar	16	
t °C	+75	
n 1/min	1800	

Single- or double-stage vertical tubular casing pump for handling brine.

CHAPTER 3

Pumps for chemical and petrochemical processes, as well as for oil production and processing

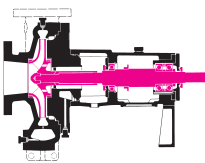
RPK



DN	25–400
Q l/s	900
H m	240
p bar	40
t °C	-70/+400
n 1/min	up to 3500

Volute casing pump in back pull-out design to API 610/VDMA 24 297 (requirement level A, heavy duty) for handling hydrocarbons. RPKI equipped with inducer.

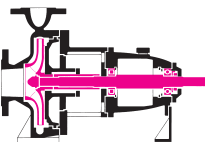
RPH



DN	25–250
Q l/s	417
H m	270
p bar	51
t °C	-110/+450
n 1/min	up to 3500

Single- or double-stage volute casing pump in back pull-out design to API 610/VDMA 24 297 (requirement level A, heavy duty) for handling hydrocarbons. RPHI equipped with inducer.

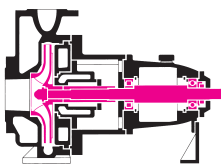
CPK/CPKN Euro-CPK



	CPK/CPKN	Euro-CPK
DN	25–400	25–150
Q l/s	1000	125
H m	185	155
p bar	25	16
t °C	-105/+400	-10/+140
n 1/min	up to 3500	up to 3500

Standardised chemical pumps to DIN 24 256 / ISO 2858 / ISO 5199 for handling aggressive liquids.

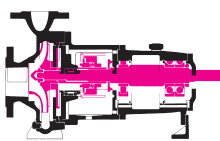
CPK-H



DN	25–300
Q l/s	444
H m	150
p bar	16
t °C	+300
n 1/min	up to 3500

Standardised chemical pump (heatable) for handling liquids which must not cool off in the system (dimensions to DIN 24 256).

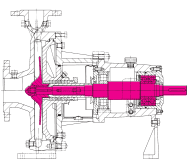
CPK.D



DN	32–250
Q l/s	305
H m	128
p bar	25
t °C	+150
n 1/min	up to 3500

Volute casing pump in back pull-out design, with radial impeller and leak-free, hydrodynamic shaft seal, single-stage, single-entry.

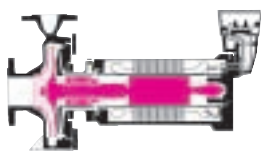
CPKO



DN	25–100
Q l/s	85
H m	154
p bar	16
t °C	-70/+300
n 1/min	up to 3500

Standardised chemical pump to DIN 24 256 / ISO 2858 / ISO 5199 with open impeller, for handling aggressive or polymerising media or media liable to form lumps as well as gas-containing liquids.

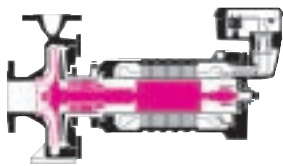
Secochem



DN	25–100
Q l/s	83.3
H m	140
p bar	25
t °C	-40/+140
n 1/min	up to 3500

Horizontal / vertical seal-less volute casing pump in back pull-out design with canned motor for handling aggressive, toxic, volatile or valuable liquids.

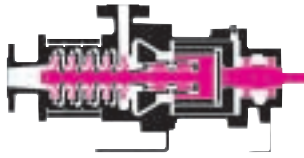
Secochem Ex



DN	25–100
Q l/s	83.3
H m	140
p bar	25
t °C	– 40/+130
n 1/min	up to 3500

Horizontal, single-entry, radially split canned motor centrifugal pump with explosion protection for handling aggressive, toxic, explosive, valuable, inflammable, malodorous or harmful liquids.

Multimagno



DN	25–40
Q l/s	8.3
H m	150
p bar	25
t °C	– 40/+250
n 1/min	up to 3500

Horizontal, seal-less, radially split mag-drive centrifugal pump in ring-section design for handling aggressive, toxic, explosive, valuable, inflammable, malodorous or harmful liquids.

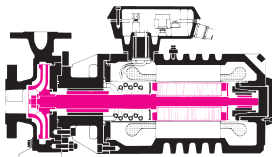
Multiseco Ex



DN	25–40
Q l/s	8.3
H m	150
p bar	40
t °C	– 40/+130
n 1/min	up to 3500

Horizontal, seal-less, radially split canned motor centrifugal pump in ring-section design with explosion protection for handling aggressive, toxic, explosive, valuable, inflammable, malodorous or harmful liquids.

Exachem



DN	25–100
Q l/s	83
H m	153
p bar	25
t °C	–40/+130 (up to 180°C if cooled)
n 1/min	2900

Horizontal canned motor pump with explosion protection to E Ex de II B T4 (T3), single-stage, single-entry, for handling aggressive, inflammable, toxic, volatile, explosive or valuable liquids.

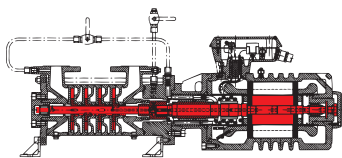
**Magnochem/
Magnochem-Bloc**



	Magnochem	Magnochem-Bloc
DN	25–150	25–125
Q l/s	125	67
H m	150	150
p bar	25	25
t °C	–40/+250	–40/+140
n 1/min	up to 3500	up to 3500

Standardised chemical mag-drive pumps to EN 22 858 / ISO 2858 / ISO 5199 in long-coupled or close-coupled design for handling aggressive, toxic, explosive, valuable, inflammable, malodorous or harmful liquids.

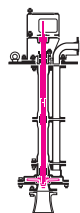
Norexchem



DN	20–50
Q l/s	5.5
H m	286
p bar	40
t °C	–40/+100
n 1/min	1450

Self-priming side channel pump with canned motor for handling pure, aggressive, inflammable, toxic, volatile, explosive or valuable liquids or liquids with a high gas content not containing abrasive or solid substances.

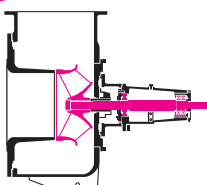
CTN



DN	25–250
Q l/s	220
H m	93
p bar	16
t °C	–70/+300
n 1/min	up to 3500

Chemical vertical shaft submersible pump for handling chemically aggressive liquids with a low solids content.

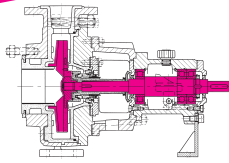
CPP



DN	300–1200
Q l/s	3611
H m	15
p bar	10
t °C	+180

Diagonal impeller pump for use in evaporation and crystallisation plants of the chemical, petrochemical, metallurgical, pharmaceutical, sugar, paper, cellulose and potash industries, as well as for flue gas desulphurisation in power stations and refuse incineration plants.

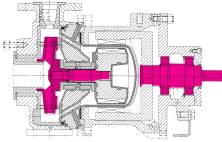
**Tyachem
Tyachem-Bloc**



	Tyachem	Tyachem-Bloc
DN	32–100	25–50
Q l/s	83	25
H m	95	58
p bar	16	16
t °C	–40/+150	–40/+150
n 1/min	2900	2900

Plastic-lined standardised chemical pump for handling highly aggressive, corrosive and abrasive media in chemical, industrial and process engineering applications. All wetted pump parts are made of plastic. The shaft is sealed by a mechanical seal.

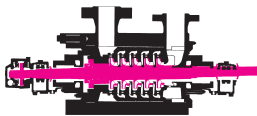
**Tyamagno
Tyamagno-Bloc**



	Tyamagno	Tyamagno-Bloc
DN	32–80	32–50
Q l/s	64	25
H m	95	58
p bar	16	16
t °C	–40/+150	–40/+150
n 1/min	2900	2900

Plastic-lined, leak-free standardised chemical pump for handling highly aggressive, corrosive and harmful media in chemical, industrial and process engineering applications. All wetted pump parts are made of plastic. No shaft seal required owing to magnetic drive.

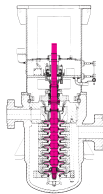
CHTR



DN	50–250
Q l/s	220
H m	2500
p bar	250
t °C	–60/+400
n 1/min	7000

High-pressure barrel-type pump for seawater injection, for crude oil transport and other petrochemical applications. Design to API 610.

HVR/WKVR



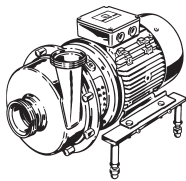
DN	≤ 400
Q l/s	880
H m	3000
p bar	350
t °C	–10/+200
n 1/min	4200

Vertical, barrel-type ring-section pumps for seawater injection (HVR) and crude oil transport (WKVR). Design to API 610.

CHAPTER 4

Pumps for special industrial applications and processes

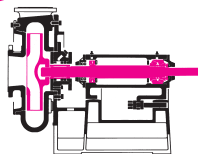
Vitachrom



DN	50–125
Q l/s	97
H m	100
p bar	16
t °C	–30/+110 (+150)
n 1/min	3600

Close-coupled unit with standardised motor for hygienic handling of fluids in the food and beverages industries as well as in the chemical and pharmaceutical industries. All wetted pump parts are made of stainless steel.

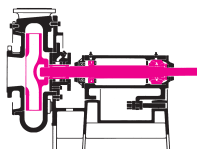
**LCC-M
LCC-H**



DN	50–300
Q l/s	892
H m	107
p bar	11
t °C	–20/+120
n 1/min	3600

Volute casing pump of extremely wear-resistant material for handling liquids containing highly abrasive and corrosive substances.

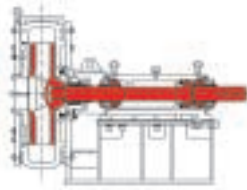
LCC-R



DN	50–300
Q l/s	892
H m	107
p bar	11
t °C	–20/+120
n 1/min	3600

Radially split volute casing pump with replaceable elastomer liner for handling media containing highly abrasive and corrosive solids.

LSA



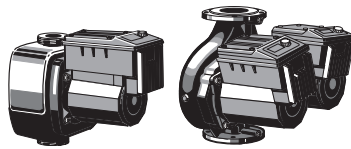
DN	50–750
Q l/s	6–6000
H m	100
p bar	9–41
t °C	120
n 1/min	350–1400

Low specific speed volute casing pump of extremely wear-resistant material for transporting media containing highly abrasive solids under severe operating conditions. The product range also includes slurry pumps for heavy-duty high-pressure applications such as tailings disposal, dredging and pressure boosting.

CHAPTER 5

Pumps for heating and air-conditioning systems, also with integrated control systems

Riotec/Riotec Z



DN	32–100
Q m³/h	up to 90
H m	up to 10
p bar	10
t °C	+20/+110

Circulator pumps:
 Riotec: Maintenance-free wet rotor pump, flanged or screw-ended with integrated frequency inverter for continuously variable differential pressure control.
 Infrared interface for remote control.
 Riotec Z: Riotec twin pump for standby operation (integrated swing check valve) or on option peak-load operation (parallel operation).

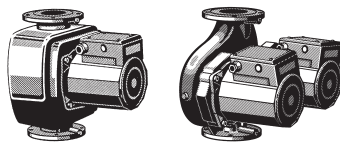
Río C



Rp	1/2, 1, 1 1/4
Q m³/h	up to 4.5
H m	up to 5.8
p bar	10
t °C	–10/+110

Circulator pumps:
 Maintenance-free screw-ended wet rotor pump with three speed levels.
 The stator embedded in a resin/silica sand compound increases the motor's operating reliability and ensures quiet running.

Río/Río Z



Rp	1, 1 1/4
DN	32–100
Q m³/h	up to 90
H m	up to 12
p bar	10
t °C	–10/+130

Circulator pumps:
 Río: Maintenance-free wet rotor pump, flanged or screw-ended, with three speed levels.
 Río Z: Río twin pump for standby operation (integrated swing check valve) or on option peak-load operation (parallel operation).

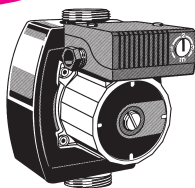
Riotherm C



Rp	3/4, 1
Q m³/h	up to 4.5
H m	up to 5.6
p bar	10
t °C	–10/+110

Hot water service pump:
 Maintenance-free screw-ended wet rotor pump with three speed levels.
 The stator embedded in a resin/silica sand compound increases the motor's operating reliability and ensures quiet running.

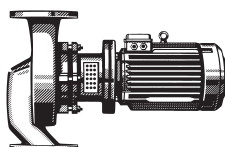
Riotronic



Rp	1, 1 1/4
Q m³/h	3.6
H m	6
p bar	10
t °C	+20/+110
n 1/min	600–2500

Maintenance-free screw-ended wet rotor pump with integrated electronics for continuously variable differential pressure control. Pump casing with heat insulation as a standard.

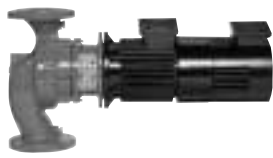
Etaline/Etaline Z



DN	32–200	
Q m³/h	up to 550	153 l/s
H m	up to 90	
p bar	16	
t °C	–30/+140	

Circulator pumps:
 Close-coupled in-line pump with standardised dry rotor motor.
 Etaline Z: Twin in-line pump in close-coupled design.

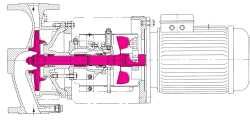
Etaline Hya-Drive



DN	32–125	
Q m ³ /h	up to 250	69 l/s
H m	up to 65	
p bar	16	
t °C	–10/+110	

Circulator pump:
Close-coupled in-line pump with variable-speed standardised motor. Pump and motor shaft are rigidly coupled.

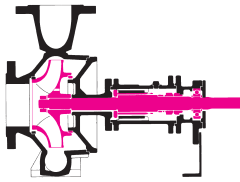
**Etabloc SY/
Etaline SY**



DN	32–100	
Q m ³ /h	up to 315	88 l/s
H m	up to 70	
p bar	16	
t °C	up to 350 (thermal oil)	
t °C	up to 180 (hot water)	

Close-coupled / in-line volute casing pumps for handling thermal oil and hot water.

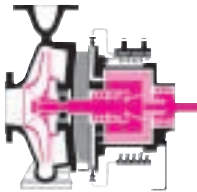
Etanorm SYN



DN	32–150	
Q l/s	183	
H m	102	
p bar	16	
t °C	up to 350 (thermal oil)	
t °C	up to 180 (hot water)	
n 1/min	3600	

Volute casing pump for handling thermal oil and hot water.

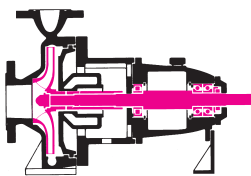
Etamagno S / SY



	SY	S
DN	32–150	32–150
Q l/s	183	183
H m	102	102
p bar	16	16
t °C	+ 350	+300
n 1/min	3600	3600

Mag-drive thermal oil pump for handling hot and cold thermal oils.

HPK / HPK-L



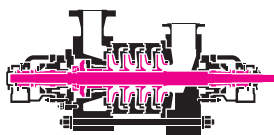
	HPK	HPK-L
DN	40–400	25–150
Q l/s	970	128
H m	190	95
p bar	80	40
t °C	280	230
n 1/min	up to 3500	up to 3600

Horizontal, single-entry, single-stage volute casing pumps in back pull-out design for handling hot water or organic heat transfer media in heating / district heating systems, etc. Inspection according to the German Steam Boiler Regulations (TRD) is possible. HPK-L: Air-cooled variant for handling hot water.

CHAPTER 6

Pumps for power stations

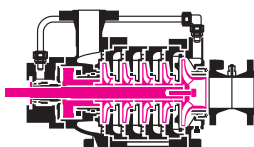
HGB/HGC/HGD



	HGB/HGC	HGD
DN	40–250	150–300
Q l/s	400	540
H m	4200	4500
p bar	420	450
t °C	+200	+200
n 1/min	7000	6200

High and ultra-high pressure ring-section pumps (HGD) for boiler feed water and condensate transport in power stations and industrial facilities, or for pressurised water generation (for example for bark peeling machines, descaling equipment and artificial snow systems).

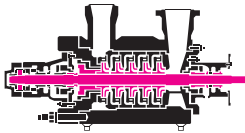
HGM



DN	25–100	
Q l/s	76	
H m	1100	
p bar	120	
t °C	+160	
n 1/min	3600	

Horizontal ring-section pump with medium-lubricated plain bearings for boiler feed duties and condensate transport in power stations and industrial facilities.

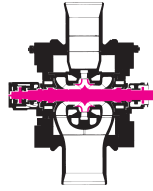
CHTC/CHTD



DN	100–450
Q l/s	700
H m	4500
p bar	450
t °C	+240
n 1/min	7000

High and ultra-high pressure barrel-type pumps (CHTD) for boiler feed water and condensate transport in power stations and industrial facilities, or for pressurised water generation (for example for bark peeling machines, descaling equipment and artificial snow systems).

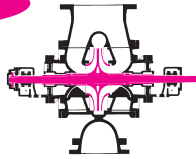
RHD



DN	250–400
Q l/s	≤ 1600
H m	≤ 850
p bar	≤ 150
t °C	≤ +210
n 1/min	≤ 6500

Horizontal, single-stage, double-entry reactor feedwater pump for handling feed water in nuclear steam generation systems.

**YNK/KRHA/
MBH**



DN	125–600
Q l/s	≤ 1800
H m	≤ 360
p bar	≤ 50
t °C	≤ +220
n 1/min	≤ 3500

Horizontal, single-stage, double-entry boiler feedwater/reactor feedwater booster pumps (booster system). YNK with double volute casing made of cast iron; MBH with double volute insert and forged circular casing.

SEZ/PNZ/PHZ



DN	700–2400
Q l/s	18000
H m	33
p bar	10
t °C	80
n 1/min	1000

Vertical, single-stage tubular casing pumps with axial/mixed flow propeller or mixed flow impeller and maintenance-free, medium-lubricated Residur® radial bearings for handling untreated, clean and service water, as well as cooling water.

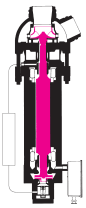
WKT/WKTA



DN	125–400
Q l/s	890
H m	350
p bar	40
t °C	+200
n 1/min	1800

Vertical, can-type ring-section pump for handling condensate.

LUV/LUVA



DN	40–550
Q l/s	1000
H m	300
p bar	320
t °C	+380
n 1/min	3500

Glandless volute, annular or spherical casing pumps for boiler recirculation.

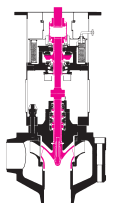
LUVAM/LUVBM



DN	100–350
Q l/s	580
H m	108
p bar	160
t °C	+345
n 1/min	3500

Glandless recirculation pumps for hot water recirculation in combined cycle power stations.

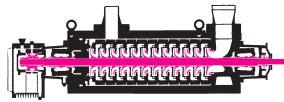
RER/RSR



	RER	RSR
DN	≤ 800	≤ 600
Q l/s	≤ 10300	≤ 2500
H m	≤ 140	≤ 215
p bar	≤ 175	≤ 125
t °C	+ 350	+ 310
n 1/min	≤ 1800	≤ 1800

Vertical, single-stage main coolant pumps. RER with forged circular casing plated on the inside and diffuser, either with own pump thrust bearing or supported by motor bearing; RSR with cast double volute casing and supported by motor bearing. Used for main coolant recirculation in light-water cooled / pressurised-water reactors (RER) or heavy-water cooled reactors (RSR).

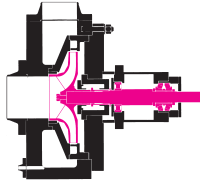
RHM/RVM



	RHM	RVM
DN	≤ 150	≤ 85
Q l/s	≤ 85	≤ 14
H m	≤ 2100	≤ 2000
p bar	≤ 220	≤ 200
t °C	+180	+100
n 1/min	≤ 8000	≤ 6000

Horizontal and vertical, barrel-type multi-stage pumps (Safeguard pumps) specially designed as ASME Sect. III, Class 2 pumps for safety injection, volume control, control rod driver, emergency and barrier liquid systems.

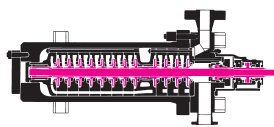
RHR/RVR



DN	≤ 500
Q l/s	≤ 1600
H m	≤ 190
p bar	≤ 63
t °C	+200
n 1/min	≤ 3600

Horizontal and vertical circular casing pumps with forged pressure shroud and diffuser, specially designed as ASME Sect. III, Class 2/3 pumps. Used for residual heat removal, low-pressure safety injection, fuel pool cooling, as well as emergency and emergency intermediate cooling.

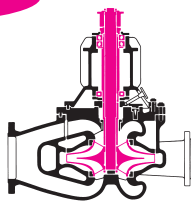
HMBS/VMBS



DN	≤ 150
Q l/s	≤ 40
H m	≤ 2400
p bar	≤ 200
t °C	+150
n 1/min	≤ 5800

Horizontal and vertical, barrel-type multi-stage pumps (Safeguard pumps) specially designed to meet French requirement standards. Used for volume control, barrier liquid injection and high-pressure safety injection systems.

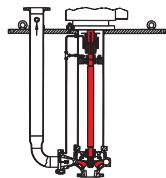
SMKV



DN	40–400
Q l/s	700
H m	380
p bar	50
t °C	+200
n 1/min	3600

Vertical, double-entry volute casing pump, in-line design, for core flooding, containment cooling, low-pressure safety injection and containment spray systems.

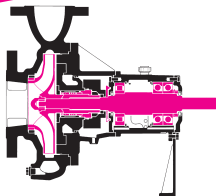
ETA VL-oil



DN	80–150
Q l/s	100
H m	90
p bar	7.5
t °C	+80
n 1/min	3500

Vertical volute casing pump for handling turbine oil.
Field of application: oil supply to turbines in fossil fuel fired as well as nuclear power stations.

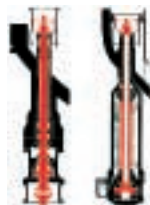
HPH



DN	40–400
Q l/s	970
H m	190
p bar	80
t °C	+280
n 1/min	up to 3500

Horizontal single-entry, single-stage volute casing pump in back pull-out design for handling hot water.
Inspection according to the German Steam Boiler Regulations (TRD) is possible.

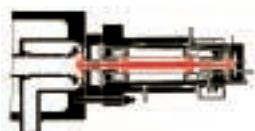
FER/PSR



DN	600
Q l/s	≤ 2500
H m	≤ 45
p bar	≤ 75
t °C	+300
n 1/min	≤ 2000

Vertical pump set integrated in the reactor containment floor. FER: pump with shaft seal and conventional motor. PSR: leak-free, low-maintenance pump set with wet rotor motor.

LUS



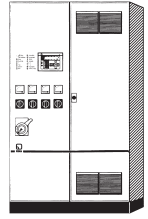
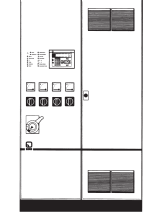



DN	≤ 350
Q l/s	≤ 160
H m	≤ 175
p bar	120
t °C	+300
n 1/min	≤ 1500

Horizontal or vertical seal-less canned motor pumps for boric acid injection and other applications.

CHAPTER 7

Control and monitoring systems

<p>Cervomatic EDP</p> 	<table border="1"> <tbody> <tr> <td>DN</td> <td>G 1¼</td> </tr> <tr> <td>Q l/s</td> <td>3.33</td> </tr> <tr> <td>p bar</td> <td>10</td> </tr> <tr> <td>t °C</td> <td>+60</td> </tr> </tbody> </table>	DN	G 1¼	Q l/s	3.33	p bar	10	t °C	+60	<p>The patented Cervomatic EDP can be used to start up, switch off and monitor small pumps in water supply systems.</p>
DN	G 1¼									
Q l/s	3.33									
p bar	10									
t °C	+60									
<p>Controlmatic E</p> 	<table border="1"> <tbody> <tr> <td>DN</td> <td>G 1¼</td> </tr> <tr> <td>Q l/s</td> <td>2.77</td> </tr> <tr> <td>p bar</td> <td>10</td> </tr> <tr> <td>t °C</td> <td>0/+60</td> </tr> </tbody> </table>	DN	G 1¼	Q l/s	2.77	p bar	10	t °C	0/+60	<p>Controlmatic E can be used to start up and switch off the pump when the consumer installation is opened or closed. Monitoring is effected by means of pressure and flow measurement.</p>
DN	G 1¼									
Q l/s	2.77									
p bar	10									
t °C	0/+60									
<p>hyatronic mb</p> 	<table border="1"> <tbody> <tr> <td>PN</td> <td>0.75–200 kW</td> </tr> <tr> <td>Mains voltage</td> <td>3 x 400 V, 50 Hz and all other voltages</td> </tr> <tr> <td>Equipment:</td> <td>integrated PI controller, controlled pumps: 1-8</td> </tr> <tr> <td>Number of frequency inverters:</td> <td>1 or 2</td> </tr> </tbody> </table>	PN	0.75–200 kW	Mains voltage	3 x 400 V, 50 Hz and all other voltages	Equipment:	integrated PI controller, controlled pumps: 1-8	Number of frequency inverters:	1 or 2	<p>Pump control system for continuously variable speed adjustment with up to 2 frequency inverters and up to 8 pumps. For asynchronous motors with motor ratings from 0.75 to 200 kW.</p>
PN	0.75–200 kW									
Mains voltage	3 x 400 V, 50 Hz and all other voltages									
Equipment:	integrated PI controller, controlled pumps: 1-8									
Number of frequency inverters:	1 or 2									
<p>Hyamaster SPS</p> 	<table border="1"> <tbody> <tr> <td>Motor rating</td> <td>up to 650 kW</td> </tr> <tr> <td>Mains voltage</td> <td>3 x 400 V 3 x 500 V 3 x 690 V</td> </tr> <tr> <td>Mains frequency</td> <td>50 Hz / 60 Hz</td> </tr> </tbody> </table>	Motor rating	up to 650 kW	Mains voltage	3 x 400 V 3 x 500 V 3 x 690 V	Mains frequency	50 Hz / 60 Hz	<p>Single- and multiple-pump control systems with continuously variable speed adjustment by one or two frequency inverters. Suitable for one to eight pumps, also of different sizes.</p>		
Motor rating	up to 650 kW									
Mains voltage	3 x 400 V 3 x 500 V 3 x 690 V									
Mains frequency	50 Hz / 60 Hz									
<p>Hya-Drive</p> 	<table border="1"> <tbody> <tr> <td>PN</td> <td>0.55–22 kW</td> </tr> <tr> <td>N_N</td> <td>750–3600 1/min</td> </tr> <tr> <td>t_{medium}</td> <td>–10/+110 °C</td> </tr> <tr> <td>Equipment:</td> <td>integrated PI controller, integrated soft starter, EMC filter, CE symbol</td> </tr> </tbody> </table>	PN	0.55–22 kW	N _N	750–3600 1/min	t _{medium}	–10/+110 °C	Equipment:	integrated PI controller, integrated soft starter, EMC filter, CE symbol	<p>Drive system with standardised three-phase motor and integrated frequency inverter for continuously variable speed adjustment. Used in combination with new pumps or to retrofit installed pumps.</p>
PN	0.55–22 kW									
N _N	750–3600 1/min									
t _{medium}	–10/+110 °C									
Equipment:	integrated PI controller, integrated soft starter, EMC filter, CE symbol									

NOTE

KSB's product portfolio also includes a wide range of valves. Please contact us for further information.

**KSB Service –
Service for All Occasions**

KSB emergency number: +49 (62 33) 8 60

*KSB Service –
fast & efficient*