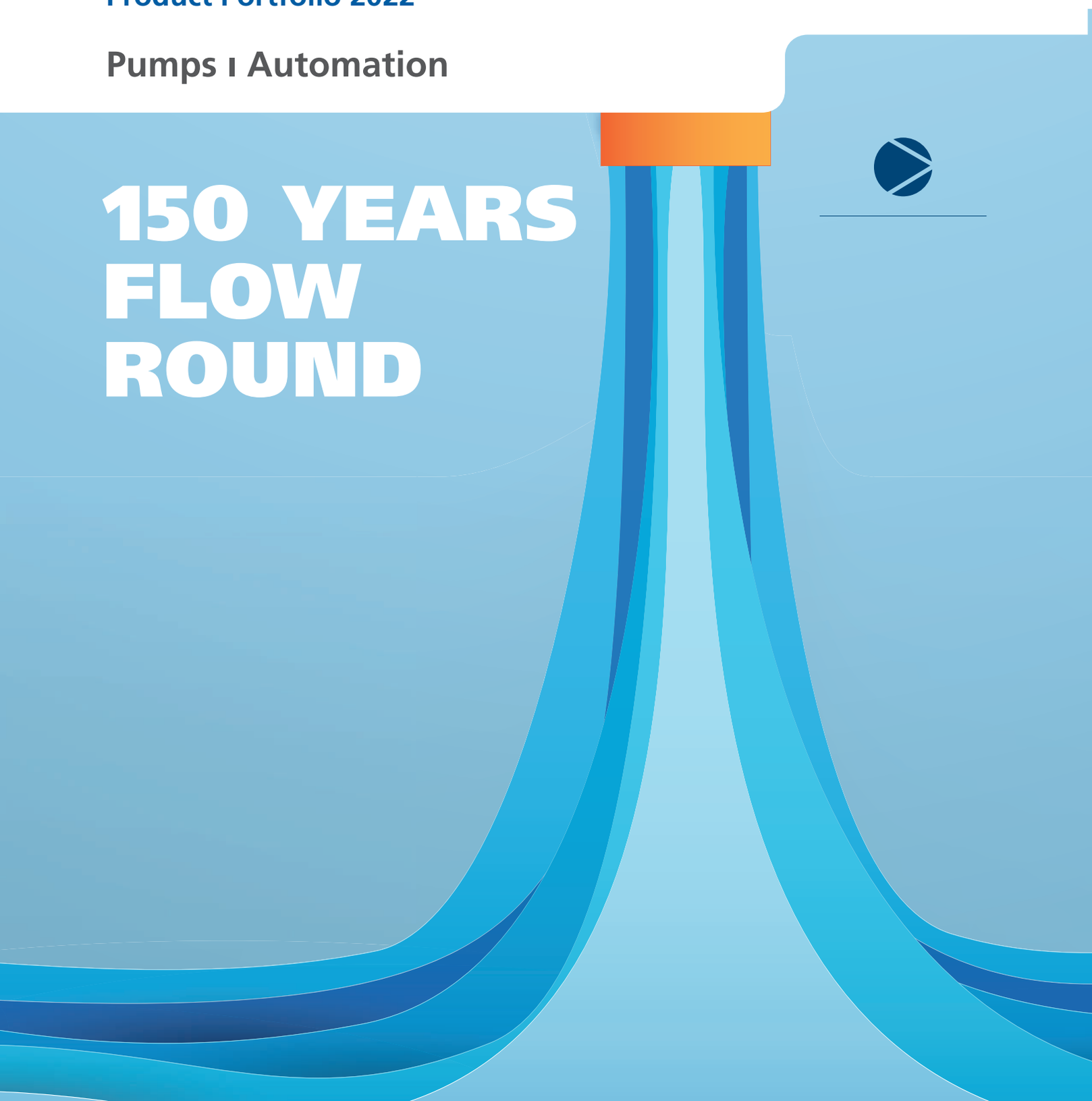
150 YEARS
People. Passion. Performance.

KSB

Product Portfolio 2022

Pumps ı Automation

150 YEARS FLOW ROUND



Type Series Index

Our goal:
Quality down to the smallest detail

At KSB, customer satisfaction, safety and reliability take top priority when it comes to quality assurance. Besides ensuring compliance with international quality standards, all KSB pumps and valves have to fulfil even higher internal quality standards.

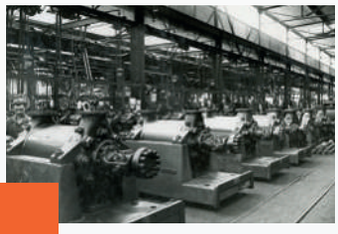
Our integrated quality management system includes a detailed evaluation process for our production sites and suppliers worldwide. As a KSB customer, you can therefore rest assured that no matter where or when you order, you will always experience consistently high quality. Thanks to our continuous improvement process, we produce pumps and valves with a long service life, excellent efficiency and low wear – as guaranteed by our internal certification system and the "Made by KSB" quality seal.

How KSB puts quality into daily practice

- Quality is when our customers are satisfied: We focus all of our efforts on our customers. Our global customer satisfaction analysis shows us how well we're doing.
- Quality is what every employee delivers: Everyone at KSB plays a part in creating a positive customer experience. To ensure the best results, all employees undergo continuous professional development.
- Quality is how processes interlock: We continuously check and improve work processes and the working environment.
- Quality is what our supply chain contributes: We set our quality targets in cooperation with our partners. This helps us raise quality across the entire supply chain to the highest level.
- Quality is how mistakes are dealt with: If we detect quality deviations, we determine the causes in order to eliminate them permanently.

THE GLOBAL COMPACT
WE SUPPORT

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



Creating the extraordinary. With passion.

We love what we do and that's why we go the extra mile to create truly extraordinary products for our customers. Our passion has been the secret to our success for 150 years and the reason why our pumps, valves and services continue to set new standards around the world.

KSB's superior products have the crucial edge in applications ranging from building services and industry to chemicals and petrochemicals, water supply and waste water treatment through to power stations and mining. Our innovative products and carefully devised solutions fulfil the highest requirements in terms of efficiency, availability and operating reliability. And that's just the start! Through our in-house research and development, unique engineering expertise and smart digital services, we are constantly expanding the boundaries of what is possible for our customers.

Our range of services is rounded off by a comprehensive service and spare parts portfolio that guarantees the highest quality, even when dealing with non-KSB products. Across KSB, our qualified and committed employees are passionately dedicated to keeping everything running smoothly for our customers.

KSB: Keeping everything flowing for 150 years.

General Information

Regional products	Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.
Trademark rights	All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE & Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.
Product illustrations	The products illustrated as examples may include options and accessories incurring a surcharge. Subject to modifications due to technical enhancements.
Product information	 For information as per chemicals Regulation (EC) No. 1907/2006 (REACH), see https://www.ksb.com/en-global/company/corporate-responsibility/reach.
Digital product catalogue	 https://www.ksb.com/en-gb/global-search
CAD portal	 http://ksb.partcommunity.com
BIM	 https://www.ksb.com/en-gb/software-and-know-how/configuration-tools

Pumps

Design / Application	Type series	Page	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Drinking water circulators, fixed speed	Calio-Therm S NC/NCV	28						■	
	Calio-Therm NC	28						■	
Drinking water circulators, variable speed	Calio-Therm	28	■					■	
	Calio-Therm S	28	■					■	
Circulators, variable speed	Calio S	29	■					■	
	Calio	29	■					■	
	Calio Z	29	■					■	
	Calio Pro	29	■					■	
	Calio Pro Z	29	■					■	
In-line pumps	Etaline	30		■		■		■	
	Etaline Z	30		■		■		■	
	Etaline-R	30		■		■		■	
	ILN	30		■	■	■		■	
	ILNC	31		■	■	■		■	
	ILNR	31		■	■	■		■	
	Megaline	31		■	■	■		■	
Standardised / close-coupled pumps	Etanorm	31		■	■	■	■	■	
	Etabloc	32		■	■	■	■	■	
	Etachrom B	32		■	■	■	■	■	
	Etachrom L	32		■	■	■	■	■	
	Etanorm V	32			■	■	■	■	
	Meganorm	33		■	■	■	■	■	
	Megabloc	33		■	■	■	■	■	
Hot water pumps	HPK-L	33		■		■	■	■	
	HPH	33		■		■	■	■	
	HPK	33		■		■	■	■	
Hot water / thermal oil pumps	Etanorm SYT / RSY	34		■		■		■	
	Etabloc SYT	34		■		■		■	
	Etaline SYT	34		■		■		■	
Standardised chemical pumps	MegaCPK	34		■		■	■		
	CPKN	35		■		■	■		
	CPKNO	35		■		■	■		
Seal-less pumps	Magnochem	36		■		■	■		
	Magnochem 685	36		■		■	■		
	Magnochem-Bloc	36		■		■	■		
	Etaseco / Etaseco-I	36		■	■	■	■	■	
	Etaseco RVP	36		■	■	■	■	■	
Process pumps	RPH	37				■	■		
	RPH-LF	37				■			
	RPHb / RPHd / RPHbd	37				■	■		
	RPH-V	37				■	■		
	CTN	37				■			
	CHTR	38				■	■		
	CHTRa	38			■	■	■		
	CINCP / CINCN	38				■	■		
	INVCP	38			■	■	■		
	Estigia	38			■	■	■		
	RWCP / RWCN	39			■	■	■		
	WKTR	39				■			
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	40	■		■			■	
	Hya-Rain Eco	40	■		■			■	

Design / Application	Type series	Page	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Domestic water supply systems with automatic control unit / swimming pool pumps	Multi Eco	40		■	■			■	
	Multi Eco-Pro	40	■		■				
	Multi Eco-Top	40	■		■			■	
	Ixo N	41		■	■			■	
	Ixo-Pro	41	■		■			■	
	Filtra N	41						■	
Pressure booster systems	KSB Delta Macro	41	■		■	■		■	
	KSB Delta Solo/Basic Compact	41	■		■			■	
	KSB Delta Basic	42	■		■	■		■	
	KSB Delta Primo	42	■		■	■		■	
	KSB Delta Solo	42	■		■	■		■	
	Hya-Solo D	42	■		■	■		■	
	Hya-Solo D FL	42	■			■		■	
	Hya-Duo D FL	43	■			■		■	
	Hya-Solo D FL Compact	43	■			■		■	
	Hya-Duo D FL Compact	43	■			■		■	
	Hya-Duo D FL-R	43	■			■		■	
	Surpress Feu SFE	43	■			■		■	
	Safety Boost	44	■		■	■		■	
Drainage pumps / waste water pumps	AmaDrainer 3	44		■				■	
	AmaDrainer 4 / 5	44		■		■		■	
	AmaDrainer 80/100	44		■				■	
	Ama-Porter F / S	44		■				■	
	Rotex	45				■		■	
	MK / MKY	45		■		■		■	
Lifting units / package pump stations	Amaclean	45			■			■	
	AmaDrainer-Box Mini	45	■					■	
	AmaDrainer-Box	45	■					■	
	Evamatic-Box N	46						■	
	mini-Compacta	46	■					■	
	Compacta	46	■			■		■	
	CK 800 Pump Station	46	■		■	■		■	
	CK 1000 Pump Station	46	■		■	■		■	
	Ama-Porter CK Pump Station	47	■		■			■	
	SRL	47			■			■	
	SRA	47		■	■			■	
Submersible motor pumps	Amarex	48		■	■	■		■	
	Amarex N	48		■	■	■		■	
	Amarex KRT	48		■	■	■		■	
Submersible pumps in discharge tubes	Amacan K	48		■	■				
	Amacan P	48		■	■				
	Amacan S	49		■	■				
Mixers / agitators / tank cleaning units	Amamix	50			■	■			
	Amaprop	50			■	■			
	Amaline	50			■	■			
Pumps for solids-laden fluids	Sewatec	51		■	■	■			
	Sewatec SPN	51			■	■			
	Sewabloc	51		■	■	■			
	KWP	51		■	■	■	■		■
	KWP-Bloc	51		■	■	■	■		■

Design / Application	Type series	Page	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Slurry pumps	WBC	52							■
	LSA	52				■	■		■
	LCC-M	52				■	■		■
	LCC-R	52				■	■		■
	TBC	52							■
	LCV	53							■
	FGD	53				■	■		■
	MHD	53							■
	LHD	53							■
	MDX	53				■			■
	ZW	54							■
	HVF	54				■			■
	DWD	54							■
	TDW	54							■
Self-priming pumps	Etaprime L	55			■	■			
	Etaprime B	55			■	■			
	EZ B/L	55			■	■	■	■	
	AU	55			■	■			
	AU Monobloc	55			■	■			
Submersible borehole pumps	UPA C 100 EE	56		■	■	■		■	
	UPA C 100 EN	56		■	■	■		■	
	UPA C 150	56		■	■	■		■	
	UPA 200, UPA 250	56		■	■	■			
	UPA 300, UPA 350	56		■	■	■			
	UPA 400 - UPA 1100	57		■	■	■			
	UPA D	57		■	■	■			
	UPA S 200	57		■	■	■			
Vertical turbine pumps	B Pump	57			■	■	■		
High-pressure pumps	Comeo	58		■	■	■		■	
	Movitec H(S)I	58		■	■	■	■	■	
	Movitec	58		■	■	■	■	■	
	Movitec VCI	58		■	■	■			
	Multitec	58		■	■	■	■	■	■
Axially split pumps	Omega	59		■	■	■	■	■	
	RDLO	59		■	■	■	■	■	
	RDLP	59		■	■				
Hygienic pumps for the food, beverage and pharmaceutical industries	Vitachrom	59		■	■	■			
	Vitacast	60		■	■	■			
	Vitacast Bloc	60		■	■	■			
	Vitaprime	60		■		■			
	Vitastage	60		■	■	■			
	Vitalobe	60		■		■			

Design / Application	Type series	Page	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Pumps for power station conventional islands	CHTA / CHTC / CHTD	61					■		
	HGB / HGC / HGD	61				■	■		
	HGI	61				■	■		
	HGM	61		■		■	■		
	YNK	61					■		
	LUV / LUVA	62					■		
	WKTB	62					■		
	SEZ	62			■	■	■		
	SEZT	62			■	■	■		
	PHZ	62			■	■	■		
	PNZ	63			■	■	■		
	SNW	63			■	■	■		
	PNW	63			■	■	■		
	Beveron	63			■	■	■		
	SPY	63			■	■	■		
Pumps for nuclear power stations	RER	64					■		
	RSR	64					■		
	RUV	64					■		
	PSR	64					■		
	RHD	64					■		
	LUV Nuclear	65					■		
	RHM	65					■		
	RVM	65					■		
	RHR	65					■		
	RVR	65					■		
	RVT	66					■		
Pumps for desalination by reverse osmosis	RPH-RO	66			■				
	Multitec-RO	66		■	■	■			
Positive displacement pumps	RC / RCV	66				■			
Fire-fighting systems	EDS	67	■		■	■		■	
	DU / EU	67	■		■	■		■	

Automation and drives

Design / Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Automation and drives	KSB SuPremE	26	■	■		■	
	KSB UMA-S	26	■	■			
Control units	Controlmatic E	68	■			■	
	Controlmatic E.2	68	■			■	
	Cervomatic EDP.2	68	■			■	
	LevelControl Basic 2	68	■	■		■	
	UPA Control	68	■			■	
	Hyatronic N	69	■	■		■	
Variable speed systems	PumpDrive 2 / PumpDrive 2 Eco	26	■	■		■	
	PumpDrive R	26	■	■		■	
Monitoring and diagnosis	PumpMeter	27	■	■		■	
	KSB Guard	27	■	■	■	■	
	KSB Leakage Sensor	27		■			
	Amacontrol	69	■	■			

Fluids handled

	Drinking water circulators, fixed speed	Calio-Therm S NC/NCV	Calio-Therm NC	Drinking water circulators, variable speed	Calio-Therm	Calio-Therm S	Circulators, variable speed	Calio S	Calio	Calio Z	Calio Pro	Calio Pro Z	In-line pumps	Etaline	Etaline Z	Etaline-R	ILN	ILNC	ILNR	Megaline	Standardised / close-coupled pumps	Etanorm	Etabloc	Etachrom B	Etachrom L	Etanorm V	Meganorm	Megabloc
Waste water with faeces																												
Waste water without faeces																												
Aggressive liquids																												
Inorganic liquids																												
Activated sludge																												
Brackish water																	■	■	■			■	■				■	■
Service water			■		■	■								■	■	■	■	■	■			■	■	■	■			
Distillate																												
Slurries																												
Explosive liquids																												
Digested sludge																												
Solids (ore, sand, gravel, ash)																												
Flammable liquids																												
River, lake and groundwater																	■	■	■			■	■					
Liquefied gas																												
Food and beverages																												
Gas-containing liquids																												
Gas turbine fuels																												
Filtered water																												
Geothermal water																												
Harmful liquids																												
Toxic liquids																												
High-temperature hot water														■	■	■				■		■	■	■	■		■	■
Heating water			■			■		■	■	■	■	■		■	■	■	■	■	■	■		■	■				■	■
Highly aggressive liquids																												
Industrial service water			■		■	■								■	■	■	■	■	■	■		■	■	■	■	■	■	■
Condensate																												
Corrosive liquids																												
Valuable liquids																												
Fuels																												
Coolants																												
Cooling lubricant																												
Cooling water			■			■		■	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■		■	■
Volatile liquids																												
Fire-fighting water																	■	■	■	■		■	■				■	■
Solvents																												
Seawater																	■	■	■				■					
Oils																						■	■	■	■			
Organic liquids																												
Pharmaceutical fluids																												
Polymerising liquids																												
Rainwater / stormwater																												
Cleaning agents																	■	■	■				■	■	■		■	■
Raw sludge																												
Lubricants																												
Grey water																												
Swimming pool water																	■	■	■	■		■	■	■	■		■	■
Brine																	■	■	■			■	■					
Feed water																	■	■	■								■	■
Dipping paints																				■						■	■	■
Drinking water		■	■		■	■								■	■		■	■	■	■		■	■	■	■		■	■
Thermal oil																												
Hot water			■		■	■		■	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■		■	■
Wash water																	■	■	■	■						■	■	■

Fluids handled

	Hot water pumps	HPK-L	HPH	HPK	Hot water / thermal oil pumps	Etanorm SYT / RSY	Etabloc SYT	Etaline SYT	Standardised chemical pumps	MegaCPK	CPKN	CPKNO	Seal-less pumps	Magnochem	Magnochem 685	Magnochem-Bloc	Etaseco / Etaseco-I	Etaseco RVP	Process pumps	RPH	RPH-LF	RPHb / RPHd / RPHbd	RPH-V	CTN	CHTR	CHTRa	CINCP / CINCN	INVCP	Estigia	RWCP / RWCN	WKTR	Rainwater harvesting systems	Hya-Rain / Hya-Rain N	Hya-Rain Eco
Waste water with faeces																											■	■		■				
Waste water without faeces														■	■	■											■	■		■				
Aggressive liquids										■	■	■		■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■			
Inorganic liquids										■	■	■		■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■			
Activated sludge																														■				
Brackish water										■	■	■								■		■						■	■					
Service water										■	■	■		■	■	■	■	■		■	■	■	■				■	■	■	■			■	■
Distillate		■	■	■						■	■	■		■	■	■	■	■											■				
Slurries																																		
Explosive liquids										■	■	■		■	■	■				■	■	■	■		■	■			■		■			
Digested sludge																																		
Solids (ore, sand, gravel, ash)																														■				
Flammable liquids										■	■	■		■	■	■				■	■	■	■		■	■	■	■	■	■	■			
River, lake and groundwater																																		
Liquefied gas																									■	■					■			
Food and beverages																																		
Gas-containing liquids										■	■	■													■				■					
Gas turbine fuels																																		
Filtered water																								■	■									
Geothermal water																																		
Harmful liquids										■	■	■		■	■	■	■	■		■	■	■	■		■	■			■		■			
Toxic liquids										■	■	■		■	■	■	■	■		■	■	■	■		■	■			■		■			
High-temperature hot water		■	■	■		■	■	■		■	■	■		■	■	■									■	■								
Heating water																	■	■																
Highly aggressive liquids						■				■	■	■		■	■	■				■	■	■	■	■										
Industrial service water										■	■	■															■	■	■	■				
Condensate		■		■																				■	■	■		■			■			
Corrosive liquids										■	■	■		■	■	■				■	■	■	■	■	■	■	■	■	■	■	■			
Valuable liquids										■	■	■		■	■	■	■	■		■	■	■	■						■					
Fuels										■	■	■		■	■	■				■	■	■	■		■	■			■		■			
Coolants														■	■	■	■	■										■	■					
Cooling lubricant																													■					
Cooling water		■	■	■						■	■	■		■	■	■	■	■		■	■	■						■	■					
Volatile liquids										■	■	■		■	■	■	■	■		■	■	■	■		■	■			■		■			
Fire-fighting water										■	■	■																						
Solvents										■	■	■		■	■	■	■	■		■	■	■	■		■	■	■	■	■	■	■			
Seawater										■	■	■													■	■	■	■	■	■				
Oils		■		■		■	■	■		■	■	■		■	■	■	■	■		■	■	■	■		■	■	■	■	■	■	■			
Organic liquids		■		■						■	■	■		■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■			
Pharmaceutical fluids																																		
Polymerising liquids										■	■	■		■	■	■													■					
Rainwater / stormwater																								■					■			■	■	
Cleaning agents						■				■	■	■		■	■	■	■	■		■	■	■	■				■	■	■	■				
Raw sludge																																		
Lubricants				■						■	■	■		■	■	■				■	■	■	■				■	■		■				
Grey water																														■				
Swimming pool water																																		
Brine						■				■	■	■		■	■	■	■	■											■	■				
Feed water		■	■	■																					■	■								
Dipping paints														■	■	■													■					
Drinking water										■	■	■		■	■	■	■	■							■	■	■	■	■	■	■			
Thermal oil		■		■		■	■	■						■	■	■				■	■	■				■	■	■		■				
Hot water		■	■	■		■	■	■		■	■	■		■	■	■	■	■							■	■			■					
Wash water																											■	■	■	■				

Fluids handled

	Domestic water supply systems with automatic control unit / swimming pool pumps						Pressure booster systems												
	Multi Eco	Multi Eco-Pro	Multi Eco-Top	Ixo N	Ixo Pro	Filtra N	KSB Delta Macro	KSB Delta Solo/Basic Compact	KSB Delta Basic	KSB Delta Primo	KSB Delta Solo	Hya-Solo D	Hya-Solo D FL	Hya-Duo D FL	Hya-Solo D FL Compact	Hya-Duo D FL Compact	Hya-Duo D FL-R	Surpress Feu SFE	Safety Boost
Waste water with faeces																			
Waste water without faeces																			
Aggressive liquids																			
Inorganic liquids																			
Activated sludge																			
Brackish water																			
Service water	■	■	■	■	■														■
Distillate																			
Slurries																			
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Heating water																			
Highly aggressive liquids																			
Industrial service water							■	■	■	■	■	■							■
Condensate																			
Corrosive liquids																			
Valuable liquids																			
Fuels																			
Coolants																			
Cooling lubricant																			
Cooling water																			
Volatile liquids																			
Fire-fighting water													■	■	■	■	■	■	
Solvents																			
Seawater																			
Oils																			
Organic liquids																			
Pharmaceutical fluids																			■
Polymerising liquids																			
Rainwater / stormwater							■	■	■	■	■	■							■
Cleaning agents																			
Raw sludge																			
Lubricants																			
Grey water																			
Swimming pool water						■	■	■	■	■	■	■							
Brine																			
Feed water																			
Dipping paints																			
Drinking water	■	■	■				■	■	■	■	■	■							■
Thermal oil																			
Hot water																			■
Wash water																			

Fluids handled

	Drainage pumps / waste water pumps	AmaDrainer 3	AmaDrainer 4 / 5	AmaDrainer 80/100	Ama-Porter F / S	Rotex	MK / MKY	Lifting units / package pump stations	Amaclean	AmaDrainer-Box Mini	AmaDrainer-Box	Evamatic-Box N	mini-Compacta	Compacta	CK 800 Pump Station	CK 1000 Pump Station	Ama-Porter CK Pump Station	SRL	SRA	Submersible motor pumps	Amarex	Amarex N	Amarex KRT
Waste water with faeces									■			■	■	■	■	■		■	■		■	■	■
Waste water without faeces		■	■	■	■				■	■	■	■	■	■	■	■	■	■	■		■	■	■
Aggressive liquids							■						■	■									■
Inorganic liquids																							
Activated sludge																					■	■	■
Brackish water													■	■									■
Service water		■	■	■			■			■	■	■	■	■	■	■	■				■	■	■
Distillate																							
Slurries																							
Explosive liquids																							
Digested sludge																					■	■	■
Solids (ore, sand, gravel, ash)																							
Flammable liquids																							
River, lake and groundwater		■	■	■	■		■												■		■	■	■
Liquefied gas																							
Food and beverages																							
Gas-containing liquids																					■	■	■
Gas turbine fuels																							
Filtered water																							■
Geothermal water																							
Harmful liquids																							
Toxic liquids																							
High-temperature hot water																							
Heating water																							
Highly aggressive liquids																							
Industrial service water		■	■	■			■						■	■							■	■	■
Condensate							■						■	■									
Corrosive liquids																							■
Valuable liquids																							
Fuels																							
Coolants																							
Cooling lubricant																							
Cooling water																					■	■	■
Volatile liquids																							
Fire-fighting water																							
Solvents																							
Seawater													■	■							■	■	■
Oils							■																
Organic liquids																							
Pharmaceutical fluids																							
Polymerising liquids																							
Rainwater / stormwater																							■
Cleaning agents																							
Raw sludge																					■	■	■
Lubricants																							
Grey water		■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■		■	■	■
Swimming pool water													■	■									
Brine																							■
Feed water																							
Dipping paints																							
Drinking water																							■
Thermal oil							■																
Hot water																							
Wash water																					■	■	

Fluids handled

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

Fluids handled

	Submersible borehole pumps									Vertical turbine pumps		High-pressure pumps						Axially split pumps				Hygienic pumps for the food, beverage and pharmaceutical industries						Pumps for power station conventional islands								
		UPA C 100 EE	UPA C 100 EN	UPA C 150	UPA 200, UPA 250	UPA 300, UPA 350	UPA 400 - UPA 1100	UPA D	UPA S 200		B Pump		Comeo	Movitec H(S)I	Movitec	Movitec VCI	Multitec		Omega	RDLO	RDLP		Vitachrom	Vitacast/Vitacast Bloc	Vitaprime	Vitastage	Vitalobe		CHTA / CHTC / CHTD	HGB / HGC / HGD	HGI	HGM	YNK	LUV / LUVA	WKTB	
Waste water with faeces																																		
Waste water without faeces																																		
Aggressive liquids																																		
Inorganic liquids																																		
Activated sludge																																		
Brackish water											■						■		■	■	■													
Service water		■	■	■	■	■	■	■	■		■						■		■	■	■													
Distillate														■	■	■	■																	
Slurries																																		
Explosive liquids																														■				
Digested sludge																																		
Solids (ore, sand, gravel, ash)																																		
Flammable liquids																																		
River, lake and groundwater		■	■	■	■	■	■	■	■		■						■		■	■	■													
Liquefied gas																	■																	
Food and beverages																							■	■	■	■	■							
Gas-containing liquids																																		
Gas turbine fuels																														■				
Filtered water																	■																	
Geothermal water																	■																	
Harmful liquids																																		
Toxic liquids																																		
High-temperature hot water														■	■		■		■	■									■	■	■	■	■	■	
Heating water																	■		■															
Highly aggressive liquids																																		
Industrial service water		■	■	■	■	■	■	■	■		■		■	■	■	■	■		■	■														
Condensate														■	■	■	■		■	■	■								■	■	■	■	■		■	
Corrosive liquids																																		
Valuable liquids																																		
Fuels																	■																	
Coolants																																		
Cooling lubricant																■																		
Cooling water		■	■	■	■	■	■	■	■				■	■	■	■	■		■	■	■													
Volatile liquids																																		
Fire-fighting water		■	■	■	■	■					■			■	■	■	■		■	■														
Solvents																	■																	
Seawater				■	■	■	■	■	■		■						■		■	■	■													
Oils																	■																	
Organic liquids																	■																	
Pharmaceutical fluids																							■	■	■	■	■							
Polymerising liquids																																		
Rainwater / stormwater																																		
Cleaning agents																	■																	
Raw sludge																																		
Lubricants																■	■																	
Grey water																																		
Swimming pool water																																		
Brine																																		
Feed water																	■		■	■									■	■	■	■	■	■	
Dipping paints																																		
Drinking water		■	■	■	■	■	■	■	■		■		■	■	■	■	■		■	■	■		■	■	■	■	■							
Thermal oil																																		
Hot water																	■		■	■														
Wash water		■	■										■	■	■	■	■																	

Fluids handled

	Pumps for power station conventional islands	SEZ / SEZT / PHZ / PNZ	SNW / PNW	Beveron	SPY	Pumps for nuclear power stations	RER	RSR	RUV	PSR	RHD	LUV Nuclear	RHM	RVM	RHR	RVR	RVT	Pumps for desalination by reverse osmosis	RPH-RO	Multitec-RO	Positive displacement pumps	RC / RCV	Fire-fighting systems	EDS	DU / EU	Drives	KSB SuPremE	KSB UMA-S	Variable speed systems	PumpDrive 2/PumpDrive 2 Eco	PumpDrive R	Monitoring and diagnosis	PumpMeter	KSB Guard	KSB Leakage Sensor
Waste water with faeces	■				■																						■			■	■			■	
Waste water without faeces	■				■																						■			■	■			■	
Aggressive liquids	■																														■			■	■
Inorganic liquids	■																										■			■	■			■	■
Activated sludge	■																										■			■	■			■	
Brackish water	■																		■								■			■	■			■	■
Service water	■	■	■	■	■																				■							■	■	■	■
Distillate	■																										■			■	■			■	■
Slurries	■																										■			■	■			■	
Explosive liquids	■																										■			■	■			■	
Digested sludge	■																										■			■	■			■	
Solids (ore, sand, gravel, ash)	■																										■			■	■				
Flammable liquids	■																										■			■	■			■	
River, lake and groundwater	■	■	■	■	■																						■	■		■	■		■	■	■
Liquefied gas	■																										■			■	■				
Food and beverages	■																										■			■	■			■	■
Gas-containing liquids	■																																	■	■
Gas turbine fuels	■																																		
Filtered water	■																										■			■	■		■	■	■
Geothermal water	■																			■														■	■
Harmful liquids	■																																	■	■
Toxic liquids	■																										■			■	■			■	■
High-temperature hot water	■																										■			■	■		■	■	■
Heating water	■																										■			■	■		■	■	■
Highly aggressive liquids	■																										■			■	■			■	
Industrial service water	■	■	■	■	■																						■	■		■	■		■	■	■
Condensate	■				■																						■			■	■			■	■
Corrosive liquids	■																										■			■	■			■	■
Valuable liquids	■																										■			■	■			■	■
Fuels	■																						■				■			■	■			■	■
Coolants	■						■	■	■	■		■	■	■	■	■	■										■			■	■				■
Cooling lubricant	■																										■			■	■			■	■
Cooling water	■	■	■	■	■										■	■	■											■						■	■	■
Volatile liquids	■																										■			■	■			■	
Fire-fighting water	■																							■	■		■	■		■	■		■	■	■
Solvents	■																																	■	■
Seawater	■	■	■	■															■	■								■						■	■
Oils	■																						■										■	■	■
Organic liquids	■																										■			■	■			■	
Pharmaceutical fluids	■																																	■	■
Polymerising liquids	■																										■			■	■			■	
Rainwater / stormwater	■	■	■	■																							■			■	■			■	■
Cleaning agents	■																										■			■	■		■	■	■
Raw sludge	■																										■			■	■			■	
Lubricants	■																						■				■			■	■			■	■
Grey water	■																										■			■	■			■	
Swimming pool water	■																																■	■	■
Brine	■																			■	■						■			■	■			■	
Feed water	■										■		■	■													■			■	■				
Dipping paints	■																										■			■	■				
Drinking water	■																										■	■		■	■		■	■	■
Thermal oil	■																										■			■	■			■	■
Hot water	■																										■			■	■		■	■	■
Wash water	■																																■	■	■

Applications

	Drinking water circulators, fixed speed	Calio-Therm S NC/NCV	Calio-Therm NC	Drinking water circulators, variable speed	Calio-Therm	Calio-Therm S	Circulators, variable speed	Calio S	Calio	Calio Z	Calio Pro	Calio Pro Z	In-line pumps	Etaline	Etaline Z	Etaline-R	ILN	ILNC	ILNR	Megaline	Standardised / close-coupled pumps	Etanorm	Etabloc	Etachrom B	Etachrom L	Etanorm V	Meganorm	Megabloc
Aquaculture																												
Spray irrigation																	■	■	■			■	■	■	■			
Mining																												
General irrigation																	■	■	■			■	■	■	■	■		
Chemical industry																						■						
Dock facilities																	■	■	■									
Drainage																				■							■	■
Pressure boosting																												
Sludge thickening																												
Disposal																												
Dewatering																	■	■	■			■	■	■	■	■		
Descaling units																												
District heating								■	■	■	■	■		■	■	■	■	■	■			■						
Solids transport																												
Fire-fighting systems																	■	■	■	■		■	■				■	■
Geothermal energy																						■						
Drawdown of groundwater levels																												
Maintenance of groundwater levels																	■	■	■									
Domestic water supply		■	■		■	■														■							■	■
Flood control / coast protection																												
Homogenisation																												
Industrial recirculation systems			■		■	■		■	■	■	■	■		■	■	■	■	■	■			■	■	■	■			
Nuclear power stations																												
Boiler feed applications			■			■		■	■	■	■	■																
Boiler recirculation			■			■		■	■	■	■	■																
Waste water treatment plants																	■	■	■			■	■	■	■	■		
Air-conditioning systems			■			■		■	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■		■	■
Condensate transport																	■	■	■			■	■	■	■		■	■
Cooling circuits			■			■		■	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■		■	■
Paint shops																				■						■	■	■
Food and beverage industry														■	■	■	■	■	■			■	■	■	■	■		
Seawater desalination / reverse osmosis																	■	■	■			■	■				■	■
Mixing																												
Offshore platforms																	■	■	■									
Pulp and paper industry																												
Petrochemical industry																												
Pharmaceutical industry																												
Pipelines and tank farms																				■							■	■
Refineries																												
Flue gas desulphurisation																												
Rainwater harvesting																				■							■	■
Cleaning of stormwater tanks / storage sewers																												
Recirculation																	■	■	■	■							■	■
Dredging																												
Shipbuilding																	■	■	■									
Sludge disposal																												
Sludge processing																												
Snow-making systems																												
Heavy oil and coal upgrading																												
Swimming pools																	■	■	■	■		■	■	■	■			
Solar thermal energy systems								■	■	■	■	■																
Fountains																	■	■	■									
Keeping in suspension																												
Thermal oil circulation																												
Draining of pits, shafts, etc.																	■	■	■									
Process engineering																												
Heat recovery systems			■		■	■		■	■	■	■	■		■	■	■	■	■	■	■							■	■
Hot-water heating systems			■		■	■		■	■	■	■	■		■	■	■	■	■	■	■		■	■	■	■		■	■
Washing plants																				■							■	■
Water treatment																	■	■	■	■		■		■	■		■	■
Water extraction																	■	■	■			■		■	■			
Water supply			■		■	■								■	■	■	■	■	■	■		■	■	■	■	■	■	■
Sugar industry																												

Applications

	Hot water pumps				Hot water / thermal oil pumps				Standardised chemical pumps				Seal-less pumps						Process pumps														Rainwater harvesting systems				
		HPK-L	HPH	HPK		Etanorm SYT / RSY	Etabloc SYT	Etaline SYT		MegaCPK	CPKN	CPKNO		Magnochem	Magnochem 685	Magnochem-Bloc	Etaseco / Etaseco-I	Etaseco RVP		RPH	RPH-LF	RPHb / RPHd / RPHbd	RPH-V	CTN	CHTR	CHTRa	CINCP / CINCN	INVCP	Estigia	RWCP / RWCN	WKTR		Hya-Rain / Hya-Rain N	Hya-Rain Eco		
Aquaculture																										■	■	■	■							
Spray irrigation																																■	■			
Mining																								■												
General irrigation																																■	■			
Chemical industry										■	■	■		■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■					
Dock facilities																																				
Drainage																										■	■	■	■							
Pressure boosting																				■				■	■											
Sludge thickening																																				
Disposal																														■						
Dewatering																							■			■	■	■	■							
Descaling units																																				
District heating		■		■						■	■	■		■	■	■	■	■																		
Solids transport																																				
Fire-fighting systems											■																									
Geothermal energy		■		■						■		■		■	■																					
Drawdown of groundwater levels																																				
Maintenance of groundwater levels																										■	■	■	■							
Domestic water supply																																■	■			
Flood control / coast protection (stormwater)																																				
Homogenisation																																				
Industrial recirculation systems		■	■	■		■				■	■	■		■	■	■	■	■		■		■					■	■	■	■						
Nuclear power stations			■	■			■	■						■	■	■				■		■			■										
Boiler feed applications		■	■	■																					■	■										
Boiler recirculation		■	■	■																																
Waste water treatment plants																										■			■							
Air-conditioning systems																	■	■																		
Condensate transport		■	■	■													■	■		■	■	■				■	■	■	■	■					
Cooling circuits		■	■	■						■	■	■		■	■	■	■	■										■	■							
Paint shops																	■	■								■	■	■	■							
Food and beverage industry						■				■	■	■		■	■	■								■		■	■	■	■							
Seawater desalination / reverse osmosis							■	■		■	■	■		■	■	■									■	■										
Mixing																																				
Offshore platforms																				■	■	■	■		■	■										
Pulp and paper industry										■	■	■														■	■	■	■							
Petrochemical industry										■	■	■		■	■	■				■	■	■	■	■	■	■	■	■	■	■	■					
Pharmaceutical industry										■	■	■		■	■	■								■												
Pipelines and tank farms										■	■	■		■	■	■				■		■	■	■	■	■	■	■	■	■						
Refineries										■	■	■		■	■	■				■	■	■	■		■	■		■	■		■					
Flue gas desulphurisation																									■	■										
Rainwater harvesting																									■		■	■	■	■			■	■		
Cleaning of stormwater tanks / storage sewers																																				
Recirculation																							■													
Dredging																																				
Shipbuilding																											■	■	■							
Sludge disposal																													■							
Sludge processing																													■							
Snow-making systems																																				
Heavy oil and coal upgrading										■	■	■		■	■	■				■	■	■	■		■	■										
Swimming pools																																				
Solar thermal energy systems																																				
Fountains																																				
Keeping in suspension																																				
Thermal oil circulation		■		■		■	■	■						■	■	■				■		■				■										
Draining of pits, shafts, etc.							■	■																												
Process engineering		■	■	■						■	■	■		■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■					
Heat recovery systems																																				
Hot-water heating systems		■		■						■	■	■		■	■	■	■	■																		
Washing plants																										■	■	■	■							
Water treatment										■	■	■		■	■	■										■	■	■	■							
Water extraction																										■	■	■	■							
Water supply																	■	■								■	■	■	■							
Sugar industry										■	■	■		■	■	■	■	■								■	■	■	■							

Applications

	Domestic water supply systems with automatic control unit / swimming pool pumps						Pressure booster systems												
	Multi Eco	Multi Eco-Pro	Multi Eco-Top	Ixo N	Ixo-Pro	Filtra N	KSB Delta Macro	KSB Delta Solo/Basic Compact	KSB Delta Basic	KSB Delta Primo	KSB Delta Solo	Hya-Solo D	Hya-Solo D FL	Hya-Duo D FL	Hya-Solo D FL Compact	Hya-Duo D FL Compact	Hya-Duo D FL-R	Surpress Feu SFE	Safety Boost
Aquaculture																			■
Spray irrigation	■	■	■	■	■		■	■	■	■	■	■							■
Mining																			
General irrigation	■	■	■	■	■		■	■	■	■	■	■							■
Chemical industry																			
Dock facilities																			
Drainage																			
Pressure boosting			■				■	■	■	■	■	■							■
Sludge thickening																			
Disposal																			
Dewatering																			
Descaling units																			
District heating																			
Solids transport																			
Fire-fighting systems													■	■	■	■	■	■	
Geothermal energy																			
Drawdown of groundwater levels																			
Maintenance of groundwater levels																			
Domestic water supply	■	■	■				■	■	■	■	■	■							■
Flood control / coast protection (stormwater)																			
Homogenisation																			
Industrial recirculation systems																			
Nuclear power stations																			
Boiler feed applications																			
Boiler recirculation																			
Waste water treatment plants																			
Air-conditioning systems																			
Condensate transport																			
Cooling circuits																			
Paint shops																			
Food and beverage industry																			■
Seawater desalination / reverse osmosis																			
Mixing																			■
Offshore platforms																			
Pulp and paper industry																			
Petrochemical industry																			
Pharmaceutical industry																			
Pipelines and tank farms																			
Refineries																			
Flue gas desulphurisation																			
Rainwater harvesting	■	■	■	■	■		■	■	■	■	■	■							■
Cleaning of stormwater tanks / storage sewers																			
Recirculation																			
Dredging																			
Shipbuilding																			
Sludge disposal																			
Sludge processing																			
Snow-making systems																			
Heavy oil and coal upgrading																			
Swimming pools						■													
Solar thermal energy systems																			
Fountains																			
Keeping in suspension																			
Thermal oil circulation																			
Draining of pits, shafts, etc.																			
Process engineering																			
Heat recovery systems																			
Hot-water heating systems																			
Washing plants	■	■	■	■	■		■	■	■	■	■	■							■
Water treatment	■	■	■	■															■
Water extraction																			
Water supply	■	■	■	■	■		■	■	■	■	■	■							■
Sugar industry																			

Applications

	Drainage pumps / waste water pumps							Lifting units / package pump stations												Submersible motor pumps			
		AmaDrainer 3	AmaDrainer 4 / 5	AmaDrainer 80/100	Ama-Porter F / S	Rotex	MK / MKY	Amaclean	AmaDrainer-Box Mini	AmaDrainer-Box	Evamatic-Box N	mini-Compacta	Compacta	CK 800 Pump Station	CK 1000 Pump Station	Ama-Porter CK Pump Station	SRL	SRA	Amarex	Amarex N	Amarex KRT
Aquaculture																						
Spray irrigation																						
Mining																					■	
General irrigation																			■	■	■	
Chemical industry																			■	■	■	
Dock facilities																						
Drainage		■	■	■	■	■	■												■	■	■	
Pressure boosting																						
Sludge thickening																						
Disposal		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Dewatering		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Descaling units																					■	
District heating																						
Solids transport																						
Fire-fighting systems																						
Geothermal energy																						
Drawdown of groundwater levels																			■	■	■	
Maintenance of groundwater levels																			■	■	■	
Domestic water supply																						
Flood control / coast protection (stormwater)																					■	
Homogenisation																						
Industrial recirculation systems																						
Nuclear power stations																						
Boiler feed applications																						
Boiler recirculation																						
Waste water treatment plants								■											■	■	■	
Air-conditioning systems																						
Condensate transport						■	■															
Cooling circuits																						
Paint shops																						
Food and beverage industry						■													■	■	■	
Seawater desalination / reverse osmosis																					■	
Mixing																						
Offshore platforms																						
Pulp and paper industry					■														■	■	■	
Petrochemical industry																						
Pharmaceutical industry																						
Pipelines and tank farms																						
Refineries																						
Flue gas desulphurisation																					■	
Rainwater harvesting																						
Cleaning of stormwater tanks / storage sewers								■										■	■	■	■	
Recirculation																						
Dredging																						
Shipbuilding																						
Sludge disposal																						
Sludge processing																			■	■	■	
Snow-making systems																					■	
Heavy oil and coal upgrading																						
Swimming pools																						
Solar thermal energy systems																						
Fountains			■																			
Keeping in suspension																						
Thermal oil circulation																						
Draining of pits, shafts, etc.		■	■	■	■	■													■	■	■	
Process engineering																						
Heat recovery systems																						
Hot-water heating systems																						
Washing plants																			■	■	■	
Water treatment		■	■	■		■	■												■	■	■	
Water extraction		■	■	■	■														■	■	■	
Water supply																			■	■	■	
Sugar industry																						

Applications

	Submersible pumps in discharge tubes	Amacan K	Amacan P	Amacan S	Mixers / agitators / tank cleaning units	Amamix	Amaprop	Amaline	Pumps for solids-laden fluids	Sewatec	Sewatec SPN	Sewabloc	KWP	KWP-Bloc	Slurry pumps	WBC	LSA	LCC-M	LCC-R	TBC	LCV	FGD	MHD	LHD	MDX	ZW	HVF	DWD	TDW	Self-priming pumps	Etaprime L	Etaprime B	EZ B/L	AU	AU Monobloc
Aquaculture		■	■																																
Spray irrigation																															■	■			
Mining													■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■						
General irrigation		■	■	■									■	■																			■		
Chemical industry													■	■																			■		
Dock facilities																																			
Drainage																															■	■		■	■
Pressure boosting																																	■		
Sludge thickening						■																													
Disposal													■	■																					
Dewatering		■	■	■									■	■																	■	■		■	■
Descaling units													■	■		■	■	■	■	■	■		■	■		■		■	■						
District heating																																			
Solids transport													■	■		■	■	■	■	■	■	■	■	■	■	■		■	■						
Geothermal energy																																			
Fire-fighting systems																															■	■		■	■
Drawdown of groundwater levels																															■	■		■	■
Maintenance of groundwater levels																																			
Domestic water supply																															■	■		■	■
Flood control / coast protection (stormwater)																																			
Homogenisation						■																													
Industrial recirculation systems							■						■	■																					
Nuclear power stations																																			
Boiler feed applications																																	■		
Boiler recirculation																																	■		
Waste water treatment plants		■	■			■	■	■		■	■	■	■	■																	■	■		■	■
Air-conditioning systems																															■	■			
Condensate transport																																			
Cooling circuits			■																												■	■	■		
Paint shops													■	■																			■		
Food and beverage industry													■	■																			■	■		■	■
Seawater desalination / reverse osmosis			■	■									■																						
Mixing						■																													
Offshore platforms																																			
Pulp and paper industry													■	■																					
Petrochemical industry																																			
Pharmaceutical industry																															■				
Pipelines and tank farms																																			
Refineries																																			
Flue gas desulphurisation													■	■								■													
Rainwater harvesting			■																																
Cleaning of stormwater tanks / storage sewers						■																													
Recirculation								■																											
Dredging																■	■	■	■	■			■	■				■	■						
Shipbuilding																																	■	■	■
Sludge disposal										■		■	■	■		■	■	■	■	■	■	■	■	■		■		■	■						
Sludge processing										■		■	■	■		■	■	■	■	■	■	■	■	■		■		■	■						
Snow-making systems								■																											
Heavy oil and coal upgrading													■	■																					
Swimming pools																															■	■		■	■
Solar thermal energy systems																																			
Fountains																																			
Keeping in suspension							■																												
Thermal oil circulation																																			
Draining of pits, shafts, etc.																																			
Process engineering													■	■																					
Heat recovery systems																																			
Hot-water heating systems																																			
Washing plants																																	■		
Water treatment		■	■	■									■	■																			■		
Water extraction			■	■																														■	■
Water supply		■	■	■																											■	■		■	■
Sugar industry										■		■	■	■			■	■	■		■			■		■									

Applications

	Submersible borehole pumps									Vertical turbine pumps		High-pressure pumps							Axially split pumps				Hygienic pumps for the food, beverage and pharmaceutical industries						Pumps for power station conventional islands								
		UPA C 100 EE	UPA C 100 EN	UPA C 150	UPA 200, UPA 250	UPA 300, UPA 350	UPA 400 - UPA 1100	UPA D	UPA S 200		B Pump		Comeo	Movitec H(S)I	Movitec	Movitec VCI	Multitec		Omega	RDLO	RDLP		Vitachrom	Vitacast/Vitacast Bloc	Vitaprime	Vitastage	Vitalobe		CHTA / CHTC / CHTD	HGB / HGC / HGD	HGI	HGM	YNK	LUV / LUVA	WKTB	
Aquaculture																																				
Spray irrigation		■	■	■	■	■	■	■	■		■		■	■	■		■																			
Mining		■	■	■	■	■	■	■	■								■																			
General irrigation		■	■	■	■	■	■	■	■		■		■	■	■		■		■	■	■															
Chemical industry																	■		■	■			■	■	■	■	■									
Dock facilities											■								■	■																
Drainage																																				
Pressure boosting		■	■	■	■	■	■	■	■				■	■	■		■		■	■	■															
Sludge thickening																																				
Disposal											■																									
Dewatering											■								■	■																
Descaling units																													■	■						
District heating																	■		■	■																
Solids transport																																				
Fire-fighting systems		■	■		■	■					■			■	■		■		■	■																
Geothermal energy																	■																			
Drawdown of groundwater levels		■	■	■	■	■	■	■	■		■																									
Maintenance of groundwater levels				■	■	■	■	■	■		■																									
Domestic water supply		■	■	■																																
Flood control / coast protection (stormwater)																																				
Homogenisation																																				
Industrial recirculation systems													■	■	■	■	■																			
Nuclear power stations																													■	■			■		■	
Boiler feed applications														■	■		■												■	■	■	■	■		■	
Boiler recirculation																	■																■			
Waste water treatment plants																																				
Air-conditioning systems													■	■	■	■	■		■	■																
Condensate transport																	■		■	■									■	■	■	■	■		■	
Cooling circuits													■	■	■	■	■		■	■																
Paint shops				■										■	■	■																				
Food and beverage industry				■										■	■								■	■	■	■	■									
Seawater desalination / reverse osmosis					■	■	■	■	■					■	■		■		■	■																
Mixing																																				
Offshore platforms														■	■																					
Pulp and paper industry														■	■																					
Petrochemical industry																	■		■	■																
Pharmaceutical industry																							■	■	■	■	■									
Pipelines and tank farms																																				
Refineries																																				
Flue gas desulphurisation																																				
Rainwater harvesting																																				
Cleaning of stormwater tanks / storage sewers																																				
Recirculation																																				
Dredging																																				
Shipbuilding											■						■		■	■																
Sludge disposal																																				
Sludge processing																																				
Snow-making systems					■	■	■	■	■								■													■		■				
Heavy oil and coal upgrading																																				
Swimming pools																																				
Solar thermal energy systems																																		■		
Fountains		■	■	■	■	■																														
Keeping in suspension																																				
Thermal oil circulation																																				
Draining of pits, shafts, etc.																																				
Process engineering																■	■																			
Heat recovery systems																	■																			
Hot-water heating systems																	■																			
Washing plants													■	■	■	■	■																			
Water treatment		■	■	■	■	■					■		■	■	■		■		■	■	■		■	■		■										
Water extraction		■	■	■	■	■	■	■	■		■						■		■	■	■															
Water supply		■	■	■	■	■	■	■	■		■		■	■	■		■		■	■	■															
Sugar industry				■	■																		■	■	■	■	■									

Applications

	Pumps for power station conventional islands	SEZ / SEZT / PHZ / PNZ	SNW / PNW	Beveron	SPY	Pumps for nuclear power stations	RER	RSR	RUV	PSR	RHD	LUV Nuclear	RHM	RVM	RHR	RVR	RVT	Pumps for desalination by reverse osmosis	RPH-RO	Multitec-RO	Positive displacement pumps	RC / RCV	Fire-fighting systems	EDS	DU / EU	Drives	KSB SuPremE	KSB UMA-S	Variable speed systems	PumpDrive 2/PumpDrive 2 Eco	PumpDrive R	Monitoring and diagnosis	PumpMeter	KSB Guard	KSB Leakage Sensor
Aquaculture																											■			■	■			■	
Spray irrigation																											■	■		■	■	■	■	■	
Mining																												■					■		
General irrigation		■	■	■	■																						■	■		■	■	■	■	■	
Chemical industry					■																	■					■			■	■			■	■
Dock facilities		■	■	■																															
Drainage		■	■	■																							■			■	■			■	
Pressure boosting																											■	■		■	■		■	■	
Sludge thickening																											■			■	■				
Disposal																											■			■	■			■	
Dewatering		■	■	■	■																						■			■	■			■	
Descaling units																											■			■	■		■	■	
District heating																											■			■	■		■	■	
Solids transport																																			
Fire-fighting systems																								■	■			■						■	
Geothermal energy																				■														■	
Drawdown of groundwater levels																											■	■		■	■		■	■	
Maintenance of groundwater levels																											■	■		■	■		■	■	
Domestic water supply																											■	■		■	■		■	■	
Flood control / coast protection (stormwater)		■	■	■																							■			■	■				
Homogenisation																											■			■	■				
Industrial recirculation systems																											■			■	■		■	■	■
Nuclear power stations		■	■	■	■		■	■	■	■	■	■	■	■	■	■	■																	■	
Boiler feed applications																																		■	
Boiler recirculation																																		■	
Waste water treatment plants																											■			■	■			■	
Air-conditioning systems																											■			■	■		■	■	■
Condensate transport					■																						■			■	■			■	
Cooling circuits					■																						■			■	■		■	■	■
Paint shops																											■	■		■	■			■	
Food and beverage industry																											■	■		■	■			■	
Seawater desalination / reverse osmosis		■	■	■															■	■								■					■	
Mixing																											■			■	■				
Offshore platforms																						■												■	
Pulp and paper industry																											■			■	■			■	
Petrochemical industry		■	■	■																														■	
Pharmaceutical industry																											■			■	■			■	
Pipelines and tank farms																						■												■	
Refineries																																		■	
Flue gas desulphurisation																											■			■	■			■	
Rainwater harvesting																											■			■	■			■	
Cleaning of stormwater tanks / storage sewers																											■			■	■				
Recirculation																											■			■	■			■	
Dredging																																			
Shipbuilding																				■		■												■	
Sludge disposal																																		■	
Sludge processing																																		■	
Snow-making systems																											■	■		■	■		■		
Heavy oil and coal upgrading																						■												■	
Swimming pools																											■			■	■		■	■	
Solar thermal energy systems																						■													
Fountains																											■	■		■	■		■	■	
Keeping in suspension																											■			■	■				
Thermal oil circulation																											■			■	■			■	■
Draining of pits, shafts, etc.																											■			■	■			■	
Process engineering																											■			■	■			■	
Heat recovery systems																											■			■	■		■	■	
Hot-water heating systems																											■			■	■		■	■	
Washing plants																											■			■	■		■	■	
Water treatment																											■	■		■	■		■	■	
Water extraction		■	■	■	■																						■	■		■	■		■	■	
Water supply		■	■	■	■																						■	■		■	■		■	■	
Sugar industry																											■	■		■	■			■	

Drive, variable speed system and monitoring

KSB SuPremE

Number of pumps	≤ 1
U [V]	Power supply via PumpDrive / PumpDrive R only

Description
IEC-compatible sensorless magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4 / IE5 (super/ultra premium efficiency) to IEC TS 60034-30-2:2016 for operation on a KSB PumpDrive 2, PumpDrive 2 Eco or PumpDrive R variable speed system. Suitable for connection to three-phase 380 - 480 V power supply (via PumpDrive). The motor mounting points comply with EN 50347 specifications to ensure compatibility with standardised IEC frame motor applications and full interchangeability with IE2 or IE3 standardised asynchronous motors. Envelope dimensions lie within the limits for IE2 / IE3 motors as recommended in DIN V 42673 (07-2011). The motor is controlled without rotor position sensors. The efficiency of the motor also exceeds 95 percent of nominal efficiency when the motor runs at 25 percent of its nominal power on a quadratic torque-speed curve. The motor is magnetless which means that so-called rare earths are not used in production. Drive production is thus sustainable and environmentally friendly.

Applications
For use with dry-installed variable speed pumps which can be driven by standardised foot-mounted and/or flange-mounted motors.

https://www.ksb.com/en-gb/lc/SD8C

KSB UMA-S

Number of pumps	≤ 1
U [V]	3~400
Other mains voltages on request	

Description
Permanent-magnet submersible synchronous motor, for operation on a KSB PumpDrive R variable speed system. NEMA connections and identical outside diameters ensure full interchangeability with comparable 6-inch or 8-inch asynchronous motors. The motor is controlled without rotor position sensors. The motor efficiency is 5 - 12 % above that of asynchronous motors. Given the design and functionality the use of permanent magnets is essential.

Applications
Exclusively for submersible borehole pumps in the range of 4 to 250 kW.

https://www.ksb.com/en-gb/lc/U02A

PumpDrive 2 / PumpDrive 2 Eco

Number of pumps	≤ 6
P [kW]	55
U [V]	3~380 - 480
Frequency inverter	1 per motor

Description
Modular self-cooling frequency inverter that enables continuously variable speed control of asynchronous and synchronous reluctance motors by means of analog standard signals, a field bus or the control panel. As PumpDrive is self-cooling, it can be mounted on a motor, on the wall or in a control cabinet. Up to six pumps can be controlled without needing an additional controller.

Applications
Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport

https://www.ksb.com/en-gb/lc/P10A

PumpDrive R

Number of pumps	≤ 6
P [kW]	55
U [V]	3~380 - 480
Frequency inverter	1 per motor

Description
Modular self-cooling frequency inverter that enables continuously variable speed control of asynchronous and synchronous reluctance motors by means of analog standard signals, a field bus or the control panel. As PumpDrive R is self-cooling, it can be mounted on the wall or in a control cabinet. Up to six pumps can be controlled without needing an additional controller. PumpDrive R extends the power range of PumpDrive 2 up to a rated power of 250 kW (standard) / 1400 kW (on request).

Applications
Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport

https://www.ksb.com/en-gb/lc/K01A

Not available for worldwide sale

PumpMeter

Number of pumps	≤ 1	
U [V DC]	24	

Description
Device for monitoring the operation of one pump. It is an intelligent pressure transmitter for pumps, with on-site display of measured values and operating data. It records the load profile of the pump in order to indicate any potential for optimising energy efficiency and availability. The device comprises two pressure sensors and a display unit. PumpMeter is supplied completely assembled and parameterised for the pump it is used with. It is ready for operation as soon as the M12 plug connector is plugged in.

Applications
Air-conditioning systems, cooling circuits, cooling lubricant distribution, heating systems, water treatment plants, water supply systems, water distribution systems, water transport systems, water extraction systems

https://www.ksb.com/en-gb/lc/P28A

KSB Guard

Sensor units	≤ 40 (per gateway)	
U [V AC]	110 - 240 (gateway)	

Description
Smart solution for condition monitoring of pumps and other rotating machinery. Sensors on the machinery record measurement data, which is processed in the KSB Cloud. Information on the machinery status can be accessed via mobile phone or computer. Simple retrofitting of the sensor unit for measuring vibrations and temperature during operation of dry-installed pumps and other rotating machinery. Components of the KSB Guard system: sensors, transmission unit and KSB Guard Gateway. For dry-installed pumps the sensors in the sensor unit and the corresponding transmission and battery unit are comprised in the KSB Guard kit. Access via the KSB Guard web portal www.ksbguard.net (computer) or the KSB Guard app is required to retrieve operating data. Data from up to 40 pumps can be transmitted via one KSB Guard gateway.

Applications
Monitoring dry-installed pumps as well as submersible pumps and mixers, optimising and improving system availability

https://www.ksb.com/en-gb/lc/G01A

KSB Leakage Sensor

Installation type	Stationary	
T [°C]	≥ -30 - ≤ +350	

Description
The KSB Leakage Sensor is an intelligent monitoring system for measuring and displaying mechanical seal leakage on site. It comprises a leakage measuring instrument and a display unit.

Applications
Industry (heat transfer fluid market)

KSB Leakage Sensor

https://www.ksb.com/en-gb/lc/L05A

Drinking water circulators, fixed speed

Calio-Therm S NC/NCV

Rp	1/2 - 3/4
Q [m³/h]	≤ 0,7
H [m]	≤ 1
p [bar]	≤ 10
T [°C]	≥ +5 - ≤ +65

Data for 50 Hz operation

Also available for 60 Hz

Description
Maintenance-free high-efficiency glandless drinking water circulator pump, screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems.

Applications
Drinking water circulation systems

https://www.ksb.com/en-gb/lc/C14A

Calio-Therm NC

Rp	3/4 - 1
Q [m³/h]	≤ 9
H [m]	≤ 7
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +65
n [rpm]	≤ 2800

Data for 50 Hz operation

Description
Maintenance-free fixed speed glandless drinking water circulator pump, screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems and hot water supply systems.

Applications
Drinking water supply systems, hot water supply systems and similar systems in industry and building services (e.g. cooling water recirculation)

https://www.ksb.com/en-gb/lc/C20A

Drinking water circulators, variable speed

Calio-Therm

Rp	1 - 1 1/4
DN	40
Q [m³/h]	≤ 24
H [m]	≤ 12
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +70
n [rpm]	≤ 4500

Data for 50 Hz operation

Also available for 60 Hz

Description
Maintenance-free high-efficiency variable speed glandless drinking water circulator pump, screw-ended or flanged, electric motor and continuously variable differential pressure control for use in drinking water supply systems and hot water supply systems.

Applications
Drinking water supply systems, hot water supply systems and similar systems in industry and building services (e.g. cooling water recirculation)

https://www.ksb.com/en-gb/lc/C23A

Calio-Therm S

Rp	1
Q [m³/h]	≤ 3,5
H [m]	≤ 6
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +65
n [rpm]	≤ 3000

Data for 50 Hz operation

Also available for 60 Hz

Description
Maintenance-free high-efficiency variable speed glandless drinking water circulator pump, screw-ended, electric motor and continuously variable differential pressure control for use in drinking water supply systems and hot water supply systems.

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

https://www.ksb.com/en-gb/lc/C91C

Circulators, variable speed

Calio S

Rp	1/2 - 1 1/4
Q [m³/h]	≤ 3,5
H [m]	≤ 8
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +95
n [rpm]	≤ 3000

Data for 50 Hz operation
Also available for 60 Hz

Description
Maintenance-free high-efficiency screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.
Applications
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems

https://www.ksb.com/en-gb/lc/C90C

Calio

Rp	1 1/2 - 2
DN	32 - 100
Q [m³/h]	≤ 51
H [m]	≤ 18
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110
n [rpm]	≤ 4500

Data for 50 Hz operation
Also available for 60 Hz

Description
Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.
Applications
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems

https://www.ksb.com/en-gb/lc/C89B

Calio Z

Rp	1 1/4
DN	32 - 65
Q [m³/h]	≤ 70
H [m]	≤ 18
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110
n [rpm]	≤ 4500

Data for 50 Hz operation
Also available for 60 Hz

Description
Maintenance-free high-efficiency flanged or screw-ended glandless pump in twin pump design with high-efficiency electric motor and continuously variable differential pressure control.
Applications
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems

https://www.ksb.com/en-gb/lc/C09B

Calio Pro

Rp	1 - 1 1/4
DN	32 - 65
Q [m³/h]	≤ 24
H [m]	≤ 12
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110

Data for 50 Hz operation
Also available for 60 Hz

Description
Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.
Applications
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems

https://www.ksb.com/en-gb/lc/C89C

Calio Pro Z

Rp	1 1/4
DN	32 - 50
Q [m³/h]	≤ 22
H [m]	≤ 12
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110

Data for 50 Hz operation
Also available for 60 Hz

Description
Maintenance-free high-efficiency flanged or screw-ended glandless pump in twin pump design with high-efficiency electric motor and continuously variable differential pressure control.
Applications
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems

https://www.ksb.com/en-gb/lc/C09C

In-line pumps

Etaline

DN	32 - 200
Q [m³/h]	≤ 700
H [m]	≤ 96
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

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

https://www.ksb.com/en-gb/lc/E03B

Etaline Z

DN	32 - 200
Q [m³/h]	≤ 1095
H [m]	≤ 38,5
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage volute casing pump in in-line design as twin pump, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. An M12 module (accessory) enables redundant operation of Etaline Z without the need for a higher-level controller. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

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

https://www.ksb.com/en-gb/lc/E13B

Etaline-R

DN	150 - 350
Q [m³/h]	≤ 1900
H [m]	≤ 93
p [bar]	≤ 25
T [°C]	≥ -30 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Vertical close-coupled pump with volute casing in in-line design with magnet-less KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system.

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

https://www.ksb.com/en-gb/lc/E22A

ILN

DN	65 - 400
Q [m³/h]	≤ 3310
H [m]	≤ 112
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +70
n [rpm]	≤ 3000
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit

https://www.ksb.com/en-gb/lc/I15A

Not available for worldwide sale · Factory-automated · Automation available

ILNC

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

Data for 50 Hz operation

Also available for 60 Hz

Description

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

Applications

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

Control unit

https://www.ksb.com/en-gb/lc/I16A

ILNR

DN	150 - 350
Q [m³/h]	≤ 1600
H [m]	≤ 93
p [bar]	≤ 10
T [°C]	≥ -15 - ≤ +70
n [rpm]	≤ 1450

Data for 50 Hz operation

Also available for 60 Hz

Description

Vertical volute casing pump in in-line design, single-stage, with closed single-entry impeller. Equipped with replaceable casing wear rings in pump casing and casing cover. ILNR with flexible coupling.

Applications

Marine applications, cargo tank cleaning, scrubbers, brine circulation, ballast water, bilge water

Megaline

DN	32 - 200
Q [m³/h]	≤ 600
H [m]	≤ 135
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +90

Data for 60 Hz operation

Description

Volute casing pump for horizontal or vertical installation, in back pull-out design, single-stage, radially split volute casing, replaceable casing wear rings. Volute casing in in-line design with closed radial impeller, with multiply curved vanes, single mechanical seal to EN 12756.

Applications

Heating circuits, water supply systems, air-conditioning systems, waste water, industrial recirculation systems

https://www.ksb.com/en-gb/lc/M51B

Standardised / close-coupled pumps

Etanorm

DN	25 - 150
Q [m³/h]	≤ 1930
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation

Also available for 60 Hz

Description

Horizontal volute casing pump, single-stage, with ratings and main dimensions to EN 733, long-coupled, back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications

Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems

https://www.ksb.com/en-gb/lc/E04B

Etabloc

DN	25 - 150
Q [m³/h]	≤ 660
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage close-coupled volute casing pump, with ratings to EN 733, with replaceable shaft sleeve and casing wear rings, with motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications
Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems

https://www.ksb.com/en-gb/lc/E01B

Etachrom B

DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal single-stage close-coupled circular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications
Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, general irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment

https://www.ksb.com/en-gb/lc/E02A

Etachrom L

DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal single-stage circular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications
Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, general irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment

https://www.ksb.com/en-gb/lc/E08A

Etanorm V

DN	32 - 150
Q [m³/h]	≤ 625
H [m]	≤ 100
p [bar]	≤ 16
T [°C]	≥ -15 - ≤ +95
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage volute casing pump for vertical installation in closed tanks under atmospheric pressure, with ratings to EN 733.

Applications
Phosphating solutions, lubricating oil supply and sealing oil supply for turbines, generators, large compressors, large gear units

https://www.ksb.com/en-gb/lc/EB5B

Meganorm

DN	25 - 200
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858/ISO 5199. Available with cylindrical or conical shaft seal chamber.

Applications
Water supply systems, drainage systems, irrigation systems, sugar industry, alcohol industry, air-conditioning systems, building services systems, fire-fighting systems

https://www.ksb.com/en-gb/lc/M52B

Megabloc

DN	25 - 160
Q [m³/h]	≤ 550
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +90
Data for 60 Hz operation	

Description
Volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, radially split volute casing, flanged or screw-ended (optional), replaceable casing wear rings. Volute casing with closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756.

Applications
Water supply systems, irrigation systems, air-conditioning systems, building services systems, hotels, shopping centres, etc., fire-fighting systems, cooling circuits, general industry

https://www.ksb.com/en-gb/lc/M44B

Hot water pumps

HPK-L

DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -40 - ≤ +400
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal radially split volute casing pump in back pull-out design to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Equipped with heat barrier, seal chamber air-cooled by integrated fan impeller, no external cooling. ATEX-compliant version available.

Applications
Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems

KSB Leakage Sensor

https://www.ksb.com/en-gb/lc/H07B

HPK

DN	150 - 400
Q [m³/h]	≤ 4150
H [m]	≤ 185
p [bar]	≤ 40
T [°C]	≥ 0 - ≤ +400
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant version available.

Applications
Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems

https://www.ksb.com/en-gb/lc/H02A

HPH

DN	40 - 350
Q [m³/h]	≤ 2350
H [m]	≤ 225
p [bar]	≤ 110
T [°C]	≥ 0 - ≤ +320
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal radially split volute casing pump in back pull-out design, with centreline pump feet, with radial impeller, single-entry, single-stage. Optional TRD type testing by TÜV. ATEX-compliant version available.

Applications
Pumping hot water in high-pressure hot water generation plants, as boiler feed or recirculation pump.

https://www.ksb.com/en-gb/lc/H01A

Hot water / thermal oil pumps

Etanorm SYT / RSY

DN	25 - 300
Q [m³/h]	≤ 1900
H [m]	≤ 102
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.

Applications
Heat transfer systems, hot water recirculation

KSB Leakage Sensor

https://www.ksb.com/en-gb/lc/E44B
https://www.ksb.com/en-gb/lc/E23A

Etabloc SYT

DN	25 - 80
Q [m³/h]	≤ 280
H [m]	≤ 68
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, with ratings to EN 733, radially split volute casing, replaceable casing wear rings, volute casing with integrally cast pump feet, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, product-lubricated carbon plain bearing, grease-lubricated radial ball bearing in the motor housing, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.

Applications
Heat transfer systems, hot water recirculation

https://www.ksb.com/en-gb/lc/E10B

Etaline SYT

DN	32 - 100
Q [m³/h]	≤ 316
H [m]	≤ 69
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. ATEX-compliant version available.

Applications
Heat transfer systems, hot water recirculation

https://www.ksb.com/en-gb/lc/E12B

Standardised chemical pumps

MegaCPK

DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 25
T [°C]	≥ -40 - ≤ +400
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858 / ISO 5199, in a large range of material and seal variants; also available as a variant with "wet" shaft and conical seal chamber. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Applications
Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.

https://www.ksb.com/en-gb/lc/M48A

Not available for worldwide sale · Factory-automated · Automation available

CPKN

DN	400
Q [m³/h]	≤ 4150
H [m]	≤ 185
p [bar]	≤ 25
T [°C]	≥ -40 - ≤ +400

Data for 50 Hz operation

Also available for 60 Hz

Description

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

Applications

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.

https://www.ksb.com/en-gb/lc/C03A

CPKNO

DN	25 - 160 / 200 - 315
Q [m³/h]	≤ 900
H [m]	≤ 150
p [bar]	≤ 25
T [°C]	≥ -40 - ≤ +400

Data for 50 Hz operation

Also available for 60 Hz

Description

Horizontal volute casing pump in back pull-out design, with semi-open impeller, single-stage, to ISO 2858 / ISO 5199. ATEX-compliant version available.

Applications

Pumping aggressive organic and inorganic fluids, fluids that tend to polymerise, and slightly gas-laden fluids.

https://www.ksb.com/en-gb/lc/C28A

Seal-less pumps

Magnochem

DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -90 - ≤ +400
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/M00B

Magnochem 685

DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -90 - ≤ +350
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal seal-less volute casing pump, with magnetic drive, radial impeller, single-entry, single-stage. Design to ISO 15783 / API 685 (centreline mounting, ASME flanges, and twice the permissible nozzle forces). ATEX-compliant version available.

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

Magnochem-Bloc

DN	25 - 160
Q [m³/h]	≤ 625
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -20 - ≤ +200
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/M08B

Etaseco / Etaseco-I

DN	32 - 100
Q [m³/h]	≤ 250
H [m]	≤ 100
p [bar]	≤ 16
T [°C]	≥ -40 - ≤ +140
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/E07A

Etaseco RVP

DN	25 - 40
Q [m³/h]	≤ 44
H [m]	≤ 40
p [bar]	≤ 16
T [°C]	≥ -50 - ≤ +110
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/ED5A

Process pumps

RPH

DN	25 - 400
Q [m³/h]	≤ 4150
H [m]	≤ 270
p [bar]	≤ 110
T [°C]	≥ -70 - ≤ +450
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/R05B

RPH-LF

DN	50
Q [m³/h]	≤ 40
H [m]	≤ 339
T [°C]	≥ -30 - ≤ +200
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal single-entry single-stage radially split overhung centreline-mounted process pump with circular casing to API 610 (ISO 13709), type OH2. Special design for low flow rates. ATEX-compliant version available.

Applications
Refineries, petrochemical and chemical industries; applications with low flow rates.

https://www.ksb.com/en-gb/lc/R29A

RPHb / RPHd / RPHbd

DN	80 - 400
Q [m³/h]	≤ 5100
H [m]	≤ 550
p [bar]	≤ 100
T [°C]	≥ -80 - ≤ +450
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Heavy-duty horizontal radially split between-bearings volute casing pump to API 610, ISO 13709 (heavy duty), type BB2, with radial impellers, single- or double-entry, single- or two-stage design with centreline pump feet. ATEX-compliant version available.

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

https://www.ksb.com/en-gb/lc/R23B

RPH-V

DN2 / DN3	25 - 80 / 40 - 150
Q [m³/h]	≤ 150
H [m]	≤ 165
p [bar]	≤ 35
T [°C]	≥ -30 - ≤ +230
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Vertical single-stage sump pump to API 610 and ISO 13709 (heavy duty), type VS4, with integral thrust bearing assembly and separate discharge line. ATEX-compliant version available.

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

https://www.ksb.com/en-gb/lc/R55A

CTN

DN	25 - 250 / 250 - 400
Q [m³/h]	≤ 950
H [m]	≤ 115
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +300
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/C02A

CHTR

DN	50 - 300
Q [m³/h]	≤ 1450
H [m]	≤ 4000
p [bar]	≤ 400
T [°C]	≥ -60 - ≤ +450
n [rpm]	≤ 7000

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

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

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

https://www.ksb.com/en-gb/lc/C38A

CHTRa

DN	80 - 300
Q [m³/h]	≤ 1200
H [m]	≤ 1550
p [bar]	≤ 155
T [°C]	≥ -40 - ≤ +205
n [rpm]	≤ 6000

Data for 50 Hz operation
Also available for 60 Hz

Description
Horizontal axially split single-entry multistage between-bearings volute casing pump with single casing and back-to-back impeller arrangement to API 610 (ISO 13709), type BB3. First stage optionally available in double-entry design for low NPSH requirements. ATEX-compliant version available.

Applications
Refineries, petrochemical industry, pipelines for crude oil and refinery products, water injection, feed water transport in power stations and industrial plants, mining, seawater desalination, reverse osmosis.

https://www.ksb.com/en-gb/lc/C18A

CINCP / CINCN

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

Data for 50 Hz operation
Also available for 60 Hz

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

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

https://www.ksb.com/en-gb/lc/C39A
https://www.ksb.com/en-gb/lc/C40A

INVCP

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

Data for 50 Hz operation
Also available for 60 Hz

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

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

https://www.ksb.com/en-gb/lc/I22A

Estigia

DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 110
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +100
n [rpm]	≤ 3000

Data for 50 Hz operation
Also available for 60 Hz

Description
Vertical immersion pump for wet installation, with various impeller types designed to meet specific fluid requirements. Supplied with discharge pipe extending above the cover plate, DN according to nominal flow rate. Sealing by lip seal, single or double cartridge mechanical seal. ATEX-compliant version available.

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

KSB SuPremE, PumpDrive, Frequency inverter
https://www.ksb.com/en-gb/lc/V20A

Not available for worldwide sale · Factory-automated · Automation available

RWCP / RWCN

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

Data for 50 Hz operation

Also available for 60 Hz

Description

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

Applications

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

https://www.ksb.com/en-gb/lc/R66A
https://www.ksb.com/en-gb/lc/R65A

WKTR

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

Data for 50 Hz operation

Also available for 60 Hz

Description

Vertically suspended, double-casing, lineshaft, diffuser-type pump with integral thrust bearings and discharge through column pipe in accordance with API 610 / ISO 13709 (VS6). Available in single-stage or multistage configurations and with single suction first-stage impeller.

Applications

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

https://www.ksb.com/en-gb/lc/W18A

Rainwater harvesting systems

Hya-Rain / Hya-Rain N

Rp	1
Q [m³/h]	≤ 4
H [m]	≤ 43
p [bar]	≤ 6
T [°C]	≥ 0 - ≤ +35

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/H12A

Hya-Rain Eco

Rp	1
Q [m³/h]	≤ 4
H [m]	≤ 43
p [bar]	≤ 6
T [°C]	≥ 0 - ≤ +35

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/H12A

Domestic water supply / swimming pool pumps

Multi Eco

Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

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

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

Controlmatic, Cervomatic

https://www.ksb.com/en-gb/lc/M17A

Multi Eco-Pro

Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/M18A

Multi Eco-Top

Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/M19A

Not available for worldwide sale · Factory-automated · Automation available

Ixo N

Rp	1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 65
T [°C]	≥ +5 - ≤ +35
n [rpm]	≤ 2900

Data for 50 Hz operation

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

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

Control unit, Cervomatic

https://www.ksb.com/en-gb/lc/I34A

Ixo-Pro

Rp	1
Q [m³/h]	≤ 3,9
H [m]	≤ 60
T [°C]	≥ +5 - ≤ +35

Data for 50 Hz operation

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

Applications
Rainwater harvesting, pressure boosting, water extraction, irrigation systems

https://www.ksb.com/en-gb/lc/I06A

Filtra N

Rp	2
Q [m³/h]	≤ 36
H [m]	≤ 21
p [bar]	≤ 2,5
T [°C]	≥ +4 - ≤ +35
n [rpm]	≤ 2800

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/F00A

Pressure booster systems

KSB Delta Macro

Rp	1 1/2
Q [m³/h]	≤ 960
H [m]	≤ 154
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +60

Data for 50 Hz operation

Description
Fully automatic package pressure booster system with two to four (F) / six (VC/SVP) vertical high-pressure pumps; available in cascade-controlled and two variable speed designs. Cascade control (F) for ensuring the required supply pressure. The VC and SVP versions ensure variable speed control of each pump by cabinet-mounted frequency inverter (VC) or motor-mounted PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Automated with BoosterCommand Pro (+).

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

https://www.ksb.com/en-gb/lc/D12A

KSB Delta Solo/Basic Compact

Rp	1 / 1 1/2
Q [m³/h]	≤ 18
H [m]	≤ 55
p [bar]	≤ 10
T [°C]	≥ 0 - ≤ +40

Data for 50 Hz operation

Description
Fully automatic ready-to-connect package single-pump pressure booster system / dual-pump pressure booster system with variable speed system

Applications
Domestic water supply, water supply systems, spray irrigation systems, general irrigation systems, service water systems, rainwater harvesting

https://www.ksb.com/en-gb/lc/D05B

KSB Delta Basic

Rp	1 1/2
Q [m³/h]	≤ 88
H [m]	≤ 134
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +60
Data for 50 Hz operation	

Description
Fully automatic pressure booster system with two to three (MVP) / four (SVP) vertical high-pressure pumps in two variable speed versions. The MVP and SVP variable speed versions ensure variable speed control of each pump by motor-mounted frequency inverter for asynchronous motors (MVP) or by PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Equipped with a central fuse box.

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

https://www.ksb.com/en-gb/lc/D07A

KSB Delta Primo

Rp	1 1/2
Q [m³/h]	≤ 88
H [m]	≤ 134
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +60
Data for 50 Hz operation	

Description
Fully automatic package pressure booster system with two to three (VC) / four (F/SVP) vertical high-pressure pumps; available in cascade-controlled and two variable speed designs. Cascade control (F) for ensuring the required supply pressure. The VC and SVP versions ensure variable speed control of each pump by cabinet-mounted frequency inverter (VC) or motor-mounted PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Automated with BoosterCommand Pro (+).

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

https://www.ksb.com/en-gb/lc/D08A

KSB Delta Solo

Rp	1 1/4
Q [m³/h]	≤ 76
H [m]	≤ 145
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +60
Data for 50 Hz operation	

Description
Fully automatic single-pump system available in two variable speed versions. The MVP and SVP variable speed versions ensure variable speed control of each pump by motor-mounted frequency inverter for asynchronous motors (MVP) or by PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure.

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

https://www.ksb.com/en-gb/lc/D11A

Hya-Solo D

Rp	1
DN	100
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70
Data for 50 Hz operation	

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

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

https://www.ksb.com/en-gb/lc/H17A

Hya-Solo D FL

Rp	1
DN	100
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70
Data for 50 Hz operation	

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

Applications
Fire-fighting systems to DIN 14462

https://www.ksb.com/en-gb/lc/H16A

Not available for worldwide sale · Factory-automated · Automation available

Hya-Duo D FL

Rp	2
DN	150
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

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

Applications
Fire-fighting systems to DIN 14462

https://www.ksb.com/en-gb/lc/H44A

Hya-Solo D FL Compact

DN	50 - 80
Q [m³/h]	≤ 48
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

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

Applications
Fire-fighting systems to DIN 14462

https://www.ksb.com/en-gb/lc/H45A

Hya-Duo D FL Compact

DN	50 - 80
Q [m³/h]	≤ 48
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

Description
Fully automatic ready-to-connect break tank package booster set for fire fighting, comprising one duty system and one stand-by system to ensure system redundancy. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

Applications
Fire-fighting systems to DIN 14462

https://www.ksb.com/en-gb/lc/H46A

Hya-Duo D FL-R

DN	150
Q [m³/h]	≤ 210
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

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

Applications
Fire fighting (break tank package booster set) in residential buildings and department stores, commercial and industrial plants, multi-storey car parks, for underground hydrants and surface hydrants

https://www.ksb.com/en-gb/lc/H26A

Surpress Feu SFE

Rp	2 1/2
Q [m³/h]	≤ 40
H [m]	≤ 76
p [bar]	≤ 10
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/SC3A

Safety Boost

DN	32
Q [m³/h]	≤ 7
H [m]	≤ 75
p [bar]	≤ 10
T [°C]	≥ 0 - ≤ +30
Data for 50 Hz operation	

Description
Ready-to-connect break tank package booster set for drinking water to DIN EN 1717 (type AB) for the safe separation of drinking water and liquids of category 5

Applications
Troughs, rainwater harvesting systems, car washes, supply lines in waste water treatment plants, funeral parlours with hydro-aspirators, public pools, food processing plants, laundries, butchers, dental surgeries and pathological facilities

https://www.ksb.com/en-gb/lc/SA2A

Drainage pumps / waste water pumps

AmaDrainer 3

Rp	1 1/4 - 1 1/2
Q [m³/h]	≤ 13,5
H [m]	≤ 11,3
T [°C]	≥ 0 - ≤ +70
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Vertical single-stage fully floodable submersible motor pump in close-coupled design, with integrated level switch for automatic control or optionally for control via external control unit. The maximum immersion depth is 2 metres.

Applications
Automatic drainage of pits, shafts, yards and basements prone to flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.

Control unit, LevelControl

https://www.ksb.com/en-gb/lc/A07B

AmaDrainer 4 / 5

Rp	1 1/2 - 2
Q [m³/h]	≤ 50
H [m]	≤ 24
T [°C]	≥ 0 - ≤ +40
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit, LevelControl

https://www.ksb.com/en-gb/lc/A76A

AmaDrainer 80/100

Rp	2 1/2
DN	100
Q [m³/h]	≤ 130
H [m]	≤ 26
T [°C]	≥ 0 - ≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit, LevelControl

https://www.ksb.com/en-gb/lc/A76A

Ama-Porter F / S

DN	50 - 65
Q [m³/h]	≤ 40
H [m]	≤ 16
T [°C]	≤ +40
Data for 50 Hz operation	

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

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

Control unit, LevelControl

https://www.ksb.com/en-gb/lc/A10A

Rotex

Rp	1 1/4 - 2
Q [m³/h]	≤ 24
H [m]	≤ 14
T [°C]	≥ 0 - ≤ +90
n [rpm]	≤ 2900
Installation depth [m]	≤ 1,7

Data for 50 Hz operation

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

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

https://www.ksb.com/en-gb/lc/R04A

MK / MKY

Rp	2
DN	50
Q [m³/h]	≤ 36
H [m]	≤ 19
T [°C]	≥ -10 - ≤ +200
n [rpm]	≤ 3500
Installation depth [m]	≤ 2,8

Data for 50 Hz operation

Also available for 60 Hz

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

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

Control unit, LevelControl

https://www.ksb.com/en-gb/lc/M02A

Lifting units / package pump stations

Amaclean

Ø [mm]	1000 - 1800
DN	50 - 100
Installation depth [m]	4,5 - 9,0

Description
Self-cleaning tank insert for grouted installation in new concrete structures or in concrete structures in need of refurbishment. Designed to prevent soiling of the structure and clogging of the pumps by heavily waste or fibre loaded waste water. Suitable for pump stations emitting unpleasant odours and/or gases.

Applications
Waste water disposal, rainwater disposal

https://www.ksb.com/en-gb/lc/A15A

AmaDrainer-Box Mini

DN	40
Q [m³/h]	≤ 10
H [m]	≤ 6,5
T [°C]	≤ +50

Data for 50 Hz operation

Description
Reliable and compact waste water lifting unit in a modern design with activated carbon filter meeting hygiene requirements and with shower connection as standard; complies with EN 12050-2

Applications
Automatic disposal of waste water from washbasins, showers, washing machines and dishwashers. Use mini-Compacta sewage lifting unit for handling sewage from urinals and toilets.

https://www.ksb.com/en-gb/lc/A23A

AmaDrainer-Box

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

Data for 50 Hz operation

Also available for 60 Hz

Description
Stable above-floor plastic collecting tank or impact-resistant underfloor plastic collecting tank, with floor drain and odour trap, both with AmaDrainer submersible motor pump starting and stopping automatically and swing check valve

Applications
Automatic disposal of waste water from washbasins, showers, washing machines, garage driveways, basements and rooms prone to flooding

https://www.ksb.com/en-gb/lc/A23A

Evamatic-Box N

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

Description
Floodable lifting unit for domestic waste water, equipped with either one or two pumps of type Ama-Porter F (free-flow impeller) or Ama-Porter S (cutter)
Applications
Disposal of domestic and municipal waste water occurring below the flood level

https://www.ksb.com/en-gb/lc/EB7A

mini-Compacta

DN	32 - 100
Q [m³/h]	≤ 36
H [m]	≤ 25
T [°C]	≤ +40
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of domestic waste water and faeces in building sections below the flood level.
Applications
Basement flats, bars, basement party rooms, basement saunas, cinemas, theatres, department stores, hospitals, hotels, restaurants, schools.

https://www.ksb.com/en-gb/lc/M09B

Compacta

DN	80 - 100
Q [m³/h]	≤ 145
H [m]	≤ 24,5
T [°C]	≤ +40
Data for 50 Hz operation	

Description
Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of waste water and faeces in buildings and building sections below the flood level.
Applications
Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, other public buildings, industrial facilities, underground train stations or for joint sewage disposal from rows of houses.

https://www.ksb.com/en-gb/lc/C00B

CK 800 Pump Station

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

Description
Single-pump station / dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N S (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.
Applications
Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage

https://www.ksb.com/en-gb/lc/C05A

CK 1000 Pump Station

DN	50 - 65
Q [m³/h]	≤ 40,3
H [m]	≤ 37,2
T [°C]	≤ +40
Data for 50 Hz operation	

Description
Single-pump station / dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.
Applications
Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage

https://www.ksb.com/en-gb/lc/C05A

Ama-Porter CK Pump Station

DN	50 - 65
Q [m³/h]	≤ 40
H [m]	≤ 16
T [°C]	≤ +40
Data for 50 Hz operation	

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

Applications
Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage

https://www.ksb.com/en-gb/lc/C05A

SRL

DN	65 - 150
Q [m³/h]	≤ 500
H [m]	≤ 55
T [°C]	≤ +40
Data for 50 Hz operation	

Description
Package pump station with tank made of glass fibre reinforced polyester, equipped with two dry-installed Sewabloc pumps with a rating of 2.2 to 30 kW, integrated valves and a control unit with frequency inverters. Pump operation is adjusted in line with flow rate demand, thus minimising energy costs. This maintenance-friendly pump station prevents intermediate storage of waste water and the related odour nuisance.

Applications
Joint disposal of domestic, municipal and industrial waste water to the sewer system / waste water treatment plant

https://www.ksb.com/en-gb/lc/S93A

SRA

DN	50 - 100
Q [m³/h]	≤ 200
H [m]	≤ 75
T [°C]	≤ +40
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Dual-pump station as ready-to-connect package system, with fibreglass collecting tank for buried installation

Applications
Site remediation, disposal of domestic, municipal and industrial waste water, joint sewage disposal for multiple residential units

Amacontrol, LevelControl

https://www.ksb.com/en-gb/lc/S90A

Submersible motor pumps

Amarex

DN	50 - 150
Q [m³/h]	≤ 320
H [m]	≤ 42
T [°C]	≤ +40
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Vertical single-stage submersible motor pump for wet installation, with free-flow impeller (F-max) or open dual-vane impeller (D-max), stationary or transportable version. Single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

Applications
Waste water transport, waste water management, drainage systems, waste water treatment plants, stormwater transport, recirculation, sludge treatment

Control unit, LevelControl — https://www.ksb.com/en-gb/lc/A31B

Amarex N

DN	32 - 100
Q [m³/h]	≤ 190
H [m]	≤ 49
T [°C]	≤ +40
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit, LevelControl — https://www.ksb.com/en-gb/lc/A31A

Amarex KRT

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

Description
Horizontal or vertical single-stage submersible motor pump in close-coupled design, with various next-generation impeller types, for wet or dry installation, stationary or transportable version, with energy-saving motor and models for use in potentially explosive atmospheres.

Applications
Pumping all types of waste water in water and waste water management, seawater desalination and industry, especially untreated waste water containing long fibres and solid substances, liquids containing gas or air, and raw, activated and digested sludge.

PumpDrive, Amacontrol, LevelControl — https://www.ksb.com/en-gb/lc/A30B

Submersible pumps in discharge tubes

Amacan K

DN	700 - 1400
Q [m³/h]	≤ 5400
H [m]	≤ 30
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 980
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Amacontrol — https://www.ksb.com/en-gb/lc/A05A

Amacan P

DN	500 - 1500
Q [m³/h]	≤ 25200
H [m]	≤ 12
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 1450
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Amacontrol — https://www.ksb.com/en-gb/lc/A28A

Not available for worldwide sale · Factory-automated · Automation available

Amacan S

DN	650 - 1300
Q [m³/h]	≤ 10800
H [m]	≤ 40
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 1450

Data for 50 Hz operation

Also available for 60 Hz

Description

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

Applications

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

Amacontrol https://www.ksb.com/en-gb/lc/A29A

Mixers / agitators / tank cleaning units

Amamix

Propeller Ø [mm]	200 - 600
T [°C]	≥ 0 - ≤ +40
Installation depth [m]	≤ 30

Data for 50 Hz operation
Also available for 60 Hz

Description
Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, direct drive. ATEX-compliant version available.
Applications
Handling municipal and industrial waste water and sludges as well as applications in environmental engineering.

Amacontrol https://www.ksb.com/en-gb/lc/A09A

Amaprop

Propeller Ø [mm]	1000 - 2500
T [°C]	≥ 0 - ≤ +40
Installation depth [m]	≤ 12

Also available for 60 Hz

Description
Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, with coaxial spur gear drive. ATEX-compliant version available.
Applications
In environmental engineering, particularly in municipal and industrial waste water and sludge treatment, for circulating, keeping in suspension and inducing flow in nitrification tanks and denitrification tanks, activated sludge tanks, biological phosphate elimination tanks, flocculation tanks and sludge storage tanks

Amacontrol https://www.ksb.com/en-gb/lc/A11A

Amaline

DN	200 - 800
Q [m^3/h]	≤ 6600
H [m]	≤ 2,5
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 1450

Data for 50 Hz operation
Also available for 60 Hz

Description
Wet-installed horizontal propeller pump with submersible motor, equipped with direct drive or spur gear, ECB propeller with rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. Explosion-proof version available.
Applications
Recirculating activated sludge in waste water treatment systems.

Amacontrol https://www.ksb.com/en-gb/lc/A08B

Pumps for solids-laden fluids

Sewatec

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

Data for 50 Hz operation
Also available for 60 Hz

Description
Volute casing pump for horizontal or vertical installation, with various next-generation impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

Applications
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment

PumpDrive, Amacontrol, LevelControl

https://www.ksb.com/en-gb/lc/S02B

Sewatec SPN

DN	≤ 1200
Q [m³/h]	≤ 32400
H [m]	≤ 115
p [bar]	≤ 16
T [°C]	≤ +70

Data for 50 Hz operation
Also available for 60 Hz

Description
Vertical volute casing pump with multi-channel impellers (K), discharge flange to DIN and ANSI standards.

Applications
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water

Sewabloc

DN	50 - 200
Q [m³/h]	≤ 1000
H [m]	≤ 90
p [bar]	≤ 10
T [°C]	≤ +70
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Close-coupled volute casing pump for horizontal or vertical installation, with various next-generation impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

Applications
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment

PumpDrive, LevelControl

https://www.ksb.com/en-gb/lc/S01B

KWP

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

Data for 50 Hz operation
Also available for 60 Hz

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

Applications
Paper industry, cellulose industry, sugar industry, food industry, power plants, chemical industry, petrochemical industry, flue gas desulphurisation, coal upgrading plants, industrial engineering, waste water transport, seawater desalination / reverse osmosis

PumpDrive

https://www.ksb.com/en-gb/lc/K07A

KWP-Bloc

DN	40 - 100
Q [m³/h]	≤ 325
H [m]	≤ 100
p [bar]	≤ 10
T [°C]	≥ -40 - ≤ +100
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Horizontal or vertical radially split close-coupled volute casing pump, single-stage, single-entry, available with various impeller types: closed multi-channel impeller, open multi-vane impeller and free-flow impeller.

Applications
Paper industry, cellulose industry, sugar industry, food industry, chemical industry, petrochemical industry, flue gas desulphurisation, industrial engineering, waste water transport

PumpDrive

https://www.ksb.com/en-gb/lc/K09A

Slurry pumps

WBC

Q [m³/h]	≤ 16200
H [m]	≤ 80
p [bar]	≤ 32
T [°C]	≥ -20 - ≤ +120

Description
Patented design with state-of-the-art hydraulic system and highly wear-resistant materials for high-pressure applications. The pump casing is designed to withstand maximum stresses, e.g. during pressure surges.

Applications
Ideal for the single-stage or multistage transport of ore and tailings over long distances and for dredging.

https://www.ksb.com/en-gb/lc/W09A

LSA

Q [m³/h]	≤ 13600
H [m]	≤ 90
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +120

Description
Premium design white cast iron pump for long service life handling severe slurries. The maintenance-friendly single-wall construction and heavy section white cast iron wet end combined with the cartridge bearing assembly provide maximum reliability, a long service life and ease of maintenance.

Applications
Ore and tailings transport, cyclone feed, dredging (dry-installed or submerged operation) and industrial processes.

https://www.ksb.com/en-gb/lc/L14A

LCC-M

Q [m³/h]	≤ 3200
H [m]	≤ 90
p [bar]	≤ 16
T [°C]	≤ +120

Description
The wetted pump end (casing, impeller and suction plate / liner) is made of white cast iron. Design optimised to permit easy dismantling and reassembly for maintenance and inspection.

Applications
Reliable pump for high heads and moderately corrosive slurries. Used in mine dewatering, ash and tailings transport and dredging.

https://www.ksb.com/en-gb/lc/L13A

LCC-R

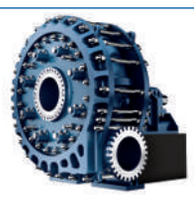
Q [m³/h]	≤ 2560
H [m]	≤ 42
p [bar]	≤ 16
T [°C]	≤ +65

Description
Interchangeable rubber-lined or part-metal design allows adaptation of existing pumps to new applications by simply exchanging the pump wet end.

Applications
The pumps are suitable for moderate heads, fine particles and highly corrosive slurries.

https://www.ksb.com/en-gb/lc/L19A

TBC



Q [m³/h]	≤ 18200
H [m]	≤ 90
p [bar]	≤ 45
T [°C]	≥ -20 - ≤ +120

Description
Horizontal high-pressure end-suction centrifugal pump offering maximum resistance to wear and ease of maintenance. The conventional single-wall design transfers stress loads from the wear parts to the casing covers in high-pressure applications. Pump components made of highly wear-resistant white cast iron.

Applications
High-head high-flow hydrotransport of mined ore, tailings, dredged material, for pipeline booster stations and other severe duties.

https://www.ksb.com/en-gb/lc/T08A

Not available for worldwide sale Factory-automated Automation available

LCV

Q [m³/h]	≤ 2045
H [m]	≤ 38
p [bar]	≤ 11
T [°C]	≤ +120

Description
Rugged vertical shaft submersible pump with casing, impeller and suction plate / liner made of white cast iron, bearing assembly located outside the fluid handled. Replaceable wetted parts made of white cast iron or natural rubber.

Applications
Particularly suitable for use in industrial processes and for transporting tailings in mines and pits.

https://www.ksb.com/en-gb/lc/L11A

FGD

Q [m³/h]	≤ 23000
H [m]	≤ 30
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +120

Description
High-flow / low-head white cast iron pump with single-wall casing and high-efficiency impeller. Single-piece suction cover with integrated mounting plate.

Applications
Flue gas desulpurisation systems and process circuits

https://www.ksb.com/en-gb/lc/F01A

MHD

Q [m³/h]	≤ 90000
H [m]	≤ 115
p [bar]	≤ 13
T [°C]	≥ -20 - ≤ +120

Description
Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Pump components made of white cast iron.

Applications
Ideal for pipeline pressure booster stations and severe mining duties. Highly suitable for loading and unloading duties on (cutter) suction dredgers.

https://www.ksb.com/en-gb/lc/M35A

LHD

Q [m³/h]	≤ 30000
H [m]	≤ 105
p [bar]	≤ 15
T [°C]	≥ -20 - ≤ +120

Description
Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Used in low-pressure applications. Pump components made of white cast iron.

Applications
Ideal for handling sand and gravel, on dredgers for land reclamation and as booster pumps.

https://www.ksb.com/en-gb/lc/L12A

MDX

Q [m³/h]	≤ 16500
H [m]	≤ 51
p [bar]	≤ 14
T [°C]	≥ -20 - ≤ +120

Description
Pump designed with the latest technology from GIW. Superior wear properties and extremely long service life handling aggressive slurries.

Applications
Designed for SAG and ball mill discharge duties, cyclone feed, screen feed and other ore mining and treatment processes.

https://www.ksb.com/en-gb/lc/M42A

ZW

Q [m³/h]	≤ 400
H [m]	≤ 35
p [bar]	≤ 10
T [°C]	≥ 0 - ≤ +65

Description
Rugged vertical shaft submersible pump with casing, impeller and suction cover made of white cast iron, top and bottom impeller inlet. Long-life bearings not exposed to fluid handled. Replaceable wetted components.

Applications
Particularly suitable for pumping abrasive slurries, dewatering, floor clean-up and process applications.

https://www.ksb.com/en-gb/lc/Z22A

HVF

Q [m³/h]	≤ 7200
H [m]	≤ 50
p [bar]	≤ 11
T [°C]	≤ +120

Description
The pump provides continuous operation without shutdown or operator intervention. The new hydraulic design removes air from the impeller eye while the pump is running, and the pump can be retrofitted into any existing operation.

Applications
For use in all froth pumping applications in the mineral processing and industrial minerals industries.

https://www.ksb.com/en-gb/lc/HA4A

DWD

Q [m³/h]	≤ 24000
H [m]	≤ 90
p [bar]	≤ 45
T [°C]	≥ -20 - ≤ +120

Description
A high-efficiency, heavy-duty, double-wall pump designed specifically for dredge applications requiring large solids passage and low NPSHR. The internal components (replaceable wear-resistant casing, side liners and curved-vane impeller) are made of high-chrome white iron. While the internal wear parts handle abrasive slurries, the outer casing acts as the high pressure containment component for safety. Designed primarily for use in ocean going vessels, the DWD dredge pump is a robust design, built to withstand the world's most aggressive dredge applications.

Applications
Inboard and underwater pumps for cutter suction dredges (CSD) and trailing suction hopper dredges (TSHD).

https://www.ksb.com/en-gb/lc/D06A

TDW

Q [m³/h]	≤ 10500
H [m]	≤ 105
p [bar]	≤ 21
T [°C]	≥ -20 - ≤ +120

Description
High head, low suction head pump specifically engineered for operation in tailings pond dewatering applications. This pump offers a fully integrated expeller shaft seal for flush-free operation. The balanced, 4-vane, large free passage impeller helps to minimise vibration. A robust mechanic end ensures reliable operation in a wide range of operating conditions. The wet-end wear components including the high speed capable impeller are made of high chrome cast white iron for maximum wear life and long production cycles.

Applications
Developed to meet the unique requirements of tailings pond dewatering services where seal flush water is not available. Ideal for water reclamation service where solids are present and high head is required.

https://www.ksb.com/en-gb/lc/T07A

Self-priming pumps

Etaprime L

DN	25 - 125
Q [m³/h]	≤ 180
H [m]	≤ 85
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +90
H_{geo} [m]	≤ 9
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal self-priming volute casing pump, single-stage, with open multi-vane impeller, from size 40-40-140 with bearing bracket, in back pull-out design, ATEX-compliant version available.

Applications
Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.

https://www.ksb.com/en-gb/lc/E25B

Etaprime B

DN	25 - 100
Q [m³/h]	≤ 130
H [m]	≤ 70
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +90
H_{geo} [m]	≤ 9
Data for 50 Hz operation	
Also available for 60 Hz	

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

Applications
Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.

https://www.ksb.com/en-gb/lc/EB1B

EZ B/L

DN	25 - 50
Q [m³/h]	≤ 21
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -5 - ≤ +80
n [rpm]	≤ 1500
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/E34A
https://www.ksb.com/en-gb/lc/E35A

AU

DN	40 - 200
Q [m³/h]	≤ 600
H [m]	≤ 52
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +80
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal self-priming centrifugal pump, open or semi-open impeller, adjusted via wear plate, with mechanical seal, ATEX-compliant version available.

Applications
Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.

https://www.ksb.com/en-gb/lc/A93A

AU Monobloc

DN	40 - 50
Q [m³/h]	≤ 53
H [m]	≤ 37
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +80
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Horizontal self-priming centrifugal pump in close-coupled design, open or semi-open impeller, adjusted via wear plate, with mechanical seal, driven by electric motors or internal combustion engines; ATEX-compliant version available.

Applications
Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.

https://www.ksb.com/en-gb/lc/A94A

Submersible borehole pumps

UPA C 100 EN

DN	100
Q [m³/h]	≤ 24
H [m]	≤ 300
T [°C]	≤ +30
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit, Cervomatic, UPA Control — https://www.ksb.com/en-gb/lc/U04A

UPA C 100 EE

DN	100
Q [m³/h]	≤ 18
H [m]	≤ 600
T [°C]	≤ +30
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

Control unit, Cervomatic, UPA Control — https://www.ksb.com/en-gb/lc/U04A

UPA C 150

DN	150
Q [m³/h]	≤ 79
H [m]	≤ 440
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

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

Applications
Spray irrigation systems, general irrigation systems, drawdown of groundwater levels, domestic water supply, fountains, heat pump systems, water supply systems

PumpDrive, KSB UMA-S — https://www.ksb.com/en-gb/lc/U16A

UPA 200, UPA 250

DN	200 - 250
Q [m³/h]	≤ 330
H [m]	≤ 460
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch. For well diameters of 8 inches and above.

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

PumpDrive, KSB UMA-S — https://www.ksb.com/en-gb/lc/U17A, https://www.ksb.com/en-gb/lc/U19A

UPA 300, UPA 350

DN	300 - 350
Q [m³/h]	≤ 840
H [m]	≤ 480
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Mixed flow hydraulic systems with trimmable impellers. Optionally available with lift check valve or connection branch. For well diameters of 12 inches and above.

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

PumpDrive, KSB UMA-S — https://www.ksb.com/en-gb/lc/U20A, https://www.ksb.com/en-gb/lc/U21A

Not available for worldwide sale · Factory-automated · Automation available

UPA 400 - UPA 1100

DN	> 350
Q [m³/h]	≤ 5000
H [m]	≤ 300
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation.
Applications
Pumping clean or slightly contaminated water, seawater, liquefied gases and oils in water supply, offshore and cavern applications and in groundwater management.

UPA D

DN	> 350
Q [m³/h]	≤ 5000
H [m]	≤ 1500
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Multistage double-entry centrifugal pump in ring-section design for vertical or horizontal installation.
Applications
Pumping clean or slightly contaminated water, seawater, liquefied gases and oils in water supply, offshore and cavern applications and in groundwater management.

https://www.ksb.com/en-gb/lc/U01A

UPA S 200

DN	200
Q [m³/h]	≤ 150
H [m]	≤ 300
T [°C]	≤ +50
Data for 50 Hz operation	
Also available for 60 Hz	

Description
Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch. For well diameters of 8 inches and above.
Applications
For pumping clean or slightly contaminated water in general water supply, spray irrigation and general irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems, emergency water supply, etc.

https://www.ksb.com/en-gb/lc/U17A

Vertical turbine pumps

B Pump

DN	80 - 500
Q [m³/h]	≤ 2600
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +105
n [rpm]	≤ 3000
Data for 50 Hz operation	
Also available for 60 Hz	
Higher ratings possible upon request	

Description
Vertical turbine pump conforming to AWWA E101-88 and designed with radially split interchangeable pump bowls, wear rings and impellers; column assembly with interchangeable column bearings and lengths of column pipes for variable immersion depths.
Applications
Pumping clean water in agriculture, collection and irrigation, public water supply, industry, fire-fighting systems

https://www.ksb.com/en-gb/lc/B60A

High-pressure pumps

Comeo

Rp	1 - 1 1/4
Q [m³/h]	≤ 10,8
H [m]	≤ 79,5
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +60
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Multistage horizontal centrifugal pump in close-coupled design
Applications
Water supply, small pressure booster systems, irrigation, cooling

Frequency inverter https://www.ksb.com/en-gb/lc/C11A

Movitec H(S)I

Rp	1 1/4 - 2
Q [m³/h]	≤ 27
H [m]	≤ 195
p [bar]	≤ 25
T [°C]	≥ -20 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Multistage horizontal high-pressure centrifugal pump with KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors.
Applications
Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.

KSB SuPremE, PumpDrive, PumpMeter https://www.ksb.com/en-gb/lc/M06A

Movitec

Rp	1 - 2
DN	25 - 125
Q [m³/h]	≤ 160
H [m]	≤ 401
p [bar]	≤ 40
T [°C]	≥ -20 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Multistage vertical high-pressure centrifugal pump in ring-section design with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design), close-coupled. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.
Applications
Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.

KSB SuPremE, PumpDrive, PumpMeter https://www.ksb.com/en-gb/lc/M12A

Movitec VCI

Rp	1 1/4 - 2
Q [m³/h]	≤ 22,5
H [m]	≤ 249
p [bar]	≤ 25
T [°C]	≥ -10 - ≤ +120
n [rpm]	≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

Description
Multistage vertical high-pressure immersion pump for installation on tanks or platforms.
Applications
Machine tools, industrial machine systems, condensate transport, paint shops.

KSB SuPremE, PumpDrive https://www.ksb.com/en-gb/lc/M94A

Multitec

DN	32 - 250
Q [m³/h]	≤ 1500
H [m]	≤ 1000
p [bar]	≤ 100
T [°C]	≥ -10 - ≤ +200
n [rpm]	≤ 3500

Description
Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled or close-coupled, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system. ATEX-compliant version available.
Applications
Water supply, drinking water supply, industry, pressure boosting, irrigation, power stations, heating systems, filtering systems, fire-fighting systems, reverse osmosis systems, snow-making systems and washing plants, and geothermal systems (re-injection of geothermal water into the aquifer).

KSB SuPremE, PumpDrive, PumpMeter https://www.ksb.com/en-gb/lc/M07A

Not available for worldwide sale · Factory-automated · Automation available

Axially split pumps

Omega

DN	80 - 350
Q [m³/h]	≤ 2880
H [m]	≤ 210
p [bar]	≤ 25
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation

Also available for 60 Hz

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

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

PumpDrive, PumpMeter

https://www.ksb.com/en-gb/lc/O00A

RDLO

DN	350 - 700
Q [m³/h]	≤ 10000
H [m]	≤ 290
p [bar]	≤ 30
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 1450

Data for 50 Hz operation

Also available for 60 Hz

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

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

PumpMeter, Frequency inverter

https://www.ksb.com/en-gb/lc/R08A

RDLP

DN	350 - 1200
Q [m³/h]	≤ 18000
H [m]	≤ 550
p [bar]	≤ 64
T [°C]	≥ 0 - ≤ +80
n [rpm]	≤ 1450

Data for 50 Hz operation

Also available for 60 Hz

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

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

Frequency inverter

https://www.ksb.com/en-gb/lc/R09A

Hygienic pumps

Vitachrom

DN	50 - 125
Q [m³/h]	≤ 340
H [m]	≤ 100
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation

Also available for 60 Hz

Description
Service-friendly non-self-priming single-stage hygienic close-coupled pump in back pull-out design with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system. The pump features a semi-open impeller and electropolished surfaces. It is very easy to clean by CIP/SIP thanks to its almost complete lack of dead volume and narrow clearances. Its wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Vitachrom is EHEDG-certified. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.

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

KSB SuPremE, PumpDrive, PumpMeter

https://www.ksb.com/en-gb/lc/V00A

Vitacast

DN	32 - 200
Q [m³/h]	≤ 540
H [m]	≤ 105
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +140

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

Description
Service-friendly volute casing pump with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface, excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.

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

KSB SuPremE, PumpDrive, PumpMeter https://www.ksb.com/en-gb/lc/V01A

Vitacast Bloc

DN	25 - 150
Q [m³/h]	≤ 340
H [m]	≤ 105
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +140

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

Description
Service-friendly volute casing pump with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface, excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

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

KSB SuPremE, PumpDrive, PumpMeter https://www.ksb.com/en-gb/lc/V05A

Vitaprime

DN	40 - 80
Q [m³/h]	≤ 58
H [m]	≤ 45
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +100

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

Description
Service-friendly close-coupled side-channel pump (self-priming) with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Hygienic design for the highest cleanability requirements (CIP/SIP-compatible). All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

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

KSB SuPremE, PumpDrive https://www.ksb.com/en-gb/lc/V07A

Vitastage

Q [m³/h]	≤ 12,5
H [m]	≤ 150
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +140

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

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

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

https://www.ksb.com/en-gb/lc/V08A

Vitalobe

DN	25 - 200
Q [m³/h]	≤ 342
H [m]	≤ 200
p [bar]	≤ 20
T [°C]	≥ -40 - ≤ +180
Viscosity [cP]	≤ 200000

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

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

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

KSB SuPremE, PumpDrive https://www.ksb.com/en-gb/lc/V06A

Not available for worldwide sale · Factory-automated · Automation available

Pumps for power station conventional islands

CHTA / CHTC / CHTD

DN	100 - 700
Q [m³/h]	≤ 5700
H [m]	≤ 5400
p [bar]	≤ 560
T [°C]	≤ +270
n [rpm]	≤ 6750

Also available for 60 Hz

Higher ratings possible upon request

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

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

https://www.ksb.com/en-gb/lc/C15A
https://www.ksb.com/en-gb/lc/C04A
https://www.ksb.com/en-gb/lc/C16A

HGB / HGC / HGD

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

Also available for 60 Hz

Higher ratings possible upon request

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

Applications
Pumping feed water and condensate in power stations and industrial plants, pumping gas turbine fuels, generating pressurised water for bark peeling and descaling units, snow guns, etc.

https://www.ksb.com/en-gb/lc/H63A
https://www.ksb.com/en-gb/lc/H23A

HGI

DN	80 - 150
Q [m³/h]	≤ 520
H [m]	≤ 2000
p [bar]	≤ 200
T [°C]	≤ +180
n [rpm]	≤ 3600

Also available for 60 Hz

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

Applications
Pumping feed water and condensate in power stations and industrial plants.

https://www.ksb.com/en-gb/lc/H08A

HGM

DN	25 - 125
Q [m³/h]	≤ 350
H [m]	≤ 1400
p [bar]	≤ 140
T [°C]	≤ +160
n [rpm]	≤ 3600

Also available for 60 Hz

Higher ratings possible upon request

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

Applications
Pumping feed water in power stations, boiler feed systems and condensate transport in industrial plants.

https://www.ksb.com/en-gb/lc/H00A

YNK

DN	125 - 600
Q [m³/h]	≤ 5200
H [m]	≤ 540
p [bar]	≤ 100
T [°C]	≤ +250
n [rpm]	≤ 3300

Higher ratings possible upon request

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

Applications
Pumping feed water in power stations and industrial plants.

https://www.ksb.com/en-gb/lc/Y01A

LUV / LUVA

DN	100 - 550
Q [m³/h]	≤ 7000
H [m]	≤ 300
p [bar]	≤ 400
T [°C]	≤ +425
n [rpm]	≤ 3600
Data for 50 Hz operation	
Also available for 60 Hz	

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

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

https://www.ksb.com/en-gb/lc/L02A

WKTB

DN	150 - 300
Q [m³/h]	≤ 1500
H [m]	≤ 370
p [bar]	≤ 40
T [°C]	≤ +140
n [rpm]	1500
Data for 50 Hz operation	
Also available for 60 Hz	

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

Applications
Pumping condensate in power stations and industrial plants.

https://www.ksb.com/en-gb/lc/W07A

SEZ

Q [m³/h]	≤ 65000
H [m]	≤ 33
T [°C]	≤ +40
n [rpm]	≤ 990
Data for 50 Hz operation	
Also available for 60 Hz	
Higher ratings possible upon request	

Description
Vertical tubular casing pump with open mixed flow impeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

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

https://www.ksb.com/en-gb/lc/S10B

SEZT

Q [m³/h]	≤ 20000
H [m]	≤ 110
T [°C]	≤ +45
n [rpm]	≤ 990
Data for 50 Hz operation	
Also available for 60 Hz	
Higher ratings possible upon request	

Description
Vertical tubular casing pump with open or closed mixed flow impeller

Applications
Handling seawater in seawater desalination plants.

https://www.ksb.com/en-gb/lc/S13A

PHZ

Q [m³/h]	≤ 65000
H [m]	≤ 25
T [°C]	≤ +80
n [rpm]	≤ 990
Data for 50 Hz operation	
Also available for 60 Hz	
Higher ratings possible upon request	

Description
Vertical tubular casing pump with mixed flow propeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

Applications
Raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.

https://www.ksb.com/en-gb/lc/P05A

PNZ

Q [m³/h]	≤ 65000
H [m]	≤ 15
T [°C]	≤ +80
n [rpm]	≤ 990

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

Description
Vertical tubular casing pump with axial propeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

Applications
Raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.

https://www.ksb.com/en-gb/lc/P06A

SNW

DN	350 - 800
Q [m³/h]	≤ 6500
H [m]	≤ 60
p [bar]	≤ 10
T [°C]	≤ +60
n [rpm]	≤ 1500

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

Description
Vertical tubular casing pump with mixed flow impeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above- or underfloor.

Applications
Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply, cooling water.

https://www.ksb.com/en-gb/lc/S14A

PNW

DN	350 - 800
Q [m³/h]	≤ 9000
H [m]	≤ 10
p [bar]	≤ 10
T [°C]	≤ +60
n [rpm]	≤ 1500

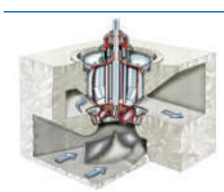
Data for 50 Hz operation
Also available for 60 Hz
Higher ratings possible upon request

Description
Vertical tubular casing pump with axial propeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above or below floor level.

Applications
Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply, cooling water.

https://www.ksb.com/en-gb/lc/P02A

Beveron



Q [m³/s]	≤ 30
H [m]	≤ 27

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

Description
Concrete volute casing pump with mixed flow impeller, single-stage, with zero-maintenance Residur bearings lubricated by the fluid handled.

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

https://www.ksb.com/en-gb/lc/B33A

SPY

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

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

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

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

https://www.ksb.com/en-gb/lc/S15A

Pumps for nuclear power stations

RER

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

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

Description
Vertical single-stage reactor coolant pump with forged circular casing plated on the inside, with diffuser, either with integrated pump thrust bearing or shaft supported by motor bearing.
Applications
Reactor coolant recirculation in nuclear power stations.

https://www.ksb.com/en-gb/lc/R10A

RSR

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

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

Description
Vertical single-stage reactor coolant pump with cast or forged casing, shaft supported by motor bearing.
Applications
Reactor coolant recirculation in nuclear power stations.

https://www.ksb.com/en-gb/lc/R07A

RUV

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

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

Description
Vertical single-stage reactor coolant pump. Seal-less design with integrated wet rotor motor and integrated flywheel. Product-lubricated bearings, no oil supply systems required.
Applications
Reactor coolant recirculation in generation III+ nuclear power stations.

https://www.ksb.com/en-gb/lc/R42A

PSR

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

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

Description
Vertical pump set integrated in the reactor containment floor, seal-less pump with leak-free, low-maintenance wet rotor motor.
Applications
Reactor coolant recirculation in boiling water reactors.

https://www.ksb.com/en-gb/lc/P01A

RHD

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

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

Description
Horizontal single-stage double-entry main feed water pump MFWP, cast or forged variant.
Applications
Main feed water supply (MFWS) in steam generation systems of nuclear power stations.

https://www.ksb.com/en-gb/lc/R25A

Not available for worldwide sale Factory-automated Automation available

LUV Nuclear

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

Data for 50 Hz operation

Also available for 60 Hz

Description

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

Applications

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

https://www.ksb.com/en-gb/lc/L25A

RHM

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

Available for 50 Hz and 60 Hz

Higher ratings possible upon request

Description

Horizontal multistage barrel pull-out pump.

Applications

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

https://www.ksb.com/en-gb/lc/R26A

RVM

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

Available for 50 Hz and 60 Hz

Higher ratings possible upon request

Description

Vertical multistage barrel pull-out pump.

Applications

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

https://www.ksb.com/en-gb/lc/R26A

RHR

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

Available for 50 Hz and 60 Hz

Description

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

Applications

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

https://www.ksb.com/en-gb/lc/R27A

RVR

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

Available for 50 Hz and 60 Hz

Description

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

Applications

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

https://www.ksb.com/en-gb/lc/R27A

RVT

DN	≤ 350
Q [m³/h]	≤ 1100
H [m]	≤ 131
p [bar]	≤ 30
T [°C]	≤ +160
n [rpm]	≤ 1485

Available for 50 Hz and 60 Hz

Higher ratings possible upon request

Description
Vertical multistage barrel pull-out pump with double-entry suction impeller and forged distributor casing.

Applications
Low-pressure injection systems, emergency feed water systems, emergency cooling and residual heat removal systems

https://www.ksb.com/en-gb/lc/R63A

Pumps for desalination by reverse osmosis

RPH-RO

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

Data for 50 Hz operation

Also available for 60 Hz

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

Applications
Booster pump for RO seawater desalination systems.

https://www.ksb.com/en-gb/lc/R54A

Multitec-RO

DN	50 - 150
Q [m³/h]	≤ 850
H [m]	≤ 1000
p [bar]	≤ 100
T [°C]	≥ -10 - ≤ +45
n [rpm]	≤ 3500

Data for 50 Hz operation

Also available for 60 Hz

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

Applications
High-pressure pump for RO seawater desalination systems and geothermal systems (re-injection of geothermal water into the aquifer).

KSB SuPremE, PumpDrive

Positive displacement pumps

RC / RCV

DN	20 - 100
Q [m³/h]	≤ 78
H [m]	≤ 100
p [bar]	≤ 10
T [°C]	≥ +5 - ≤ +80
n [rpm]	≤ 1500

Data for 50 Hz operation

Also available for 60 Hz

Description
Helical gear pump, self-priming, with bypass valve, close-coupled design, for horizontal installation with baseplate or vertical installation. With mechanical seal.

Applications
Fuel feed, handling fuel, lubricating oil and viscous fluids, lubrication systems.

https://www.ksb.com/en-gb/lc/R41A

Fire-fighting systems

EDS

DN	32 - 300
Q [m³/h]	≤ 840
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ +5 - ≤ +50
n [rpm]	≤ 3000

Data for 50 Hz operation

Also available for 60 Hz

Description
Automatic fire-fighting system consisting of a jockey pump and one or several duty pumps, with electric motor or diesel engine. Includes manifold, valves, accessories and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, etc.

Applications
Office buildings, hotels, industry, shopping malls, etc.

DU / EU

DN	32 - 350
Q [m³/h]	≤ 2500
H [m]	≤ 150
p [bar]	≤ 25
T [°C]	≥ +5 - ≤ +50
n [rpm]	≤ 3000

Data for 50 Hz operation

Also available for 60 Hz

Description
Automatic fire-fighting system consisting of pumps with electric motor or diesel engine and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, FM, etc.

Applications
Office buildings, hotels, industry, shopping malls, etc.

Control units

Controlmatic E

Number of pumps	≤ 1
U [V]	1~230

Description
Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

Applications
In water supply systems in combination with Multi Eco, Ixo, etc.

https://www.ksb.com/en-gb/lc/C72A

Controlmatic E.2

Number of pumps	≤ 1
U [V]	1~230

Description
Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

Applications
In water supply systems in combination with Multi Eco, Ixo, etc.

https://www.ksb.com/en-gb/lc/C72A

Cervomatic EDP.2

Number of pumps	≤ 1
U [V]	1~230 / 3~400

Description
Automatic control unit for pressure-controlled starting and either pressure-controlled or flow-controlled stopping and monitoring of a single pump.

Applications
In water supply systems with pumps of the Multi Eco, Ixo, etc. type series with single-phase or three-phase motors

https://www.ksb.com/en-gb/lc/C19A

LevelControl Basic 2

Number of pumps	≤ 2
P [kW]	≤ 22
U [V]	1~230 / 3~400

Available for higher ratings and other mains voltages on request.

Description
Level control unit for controlling and protecting either one or two pumps. DOL starting up to 4 kW, star-delta starting up to 22 kW. Higher ratings on request.

Applications
Tank drainage using float switches, digital switches, 4...20 mA, pneumatic (without compressor) or bubbler system in building services and waste water applications. Tank filling using float switches, digital switches or 4...20 mA signals in building services and water supply applications.

https://www.ksb.com/en-gb/lc/L20A

UPA Control

Number of pumps	≤ 1
P [kW]	3
U [V]	1~230 / 3~400

Description
The KSB switchgear is suitable for level control and protection of submersible borehole pumps, submersible motor pumps and dry-installed pumps with single-phase AC motors 1~ 230 V or three-phase motors 3~ 230 / 400 V / 50 Hz. The motor is started DOL. Enclosure: IP56, dimensions: 205 × 255 × 170 mm (H × W × D).

Applications
Irrigation and filling or draining tanks in water supply applications in combination with 4-inch and 6-inch pumps.

https://www.ksb.com/en-gb/lc/U05A

Not available for worldwide sale

Hyatronic N

Number of pumps	≤ 6
P [kW]	22
U [V]	3~400

Available for higher ratings and other mains voltages on request.

Description
Pump control system in control cabinet for cascade starting and stopping of up to six pumps.

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

Monitoring and diagnosis

Amacontrol

Connections	Spring-loaded terminals
Mounting	35 mm standard rail
T [°C]	≥ -30 - ≤ +70
Dimensions H × W ×D [mm]	127,2 × 45 × 113,6
U [V]	AC 115-230 ± 10%
U [V]	AC/DC 24 ± 10%

Description
Protection module for water and waste water products as all-in-one device. Depending on the variant, it can be used for motor temperature measurement, bearing temperature measurement, leakage measurement, vibration measurement, voltage measurement and current measurement as well as for diagnosing a pump, pump system or submersible mixer to ensure trouble-free and reliable operation.

Applications
In water and waste water systems in combination with Amacan, Amamix, Amaprop, Amaline, Amarex KRT or Sewatec

https://www.ksb.com/en-gb/lc/A75B

Legal information/Copyright

Product Portfolio Pumps ı Automation

Subject to technical modification without prior notice.

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Tel. +49 6233 86-0
www.ksb.com

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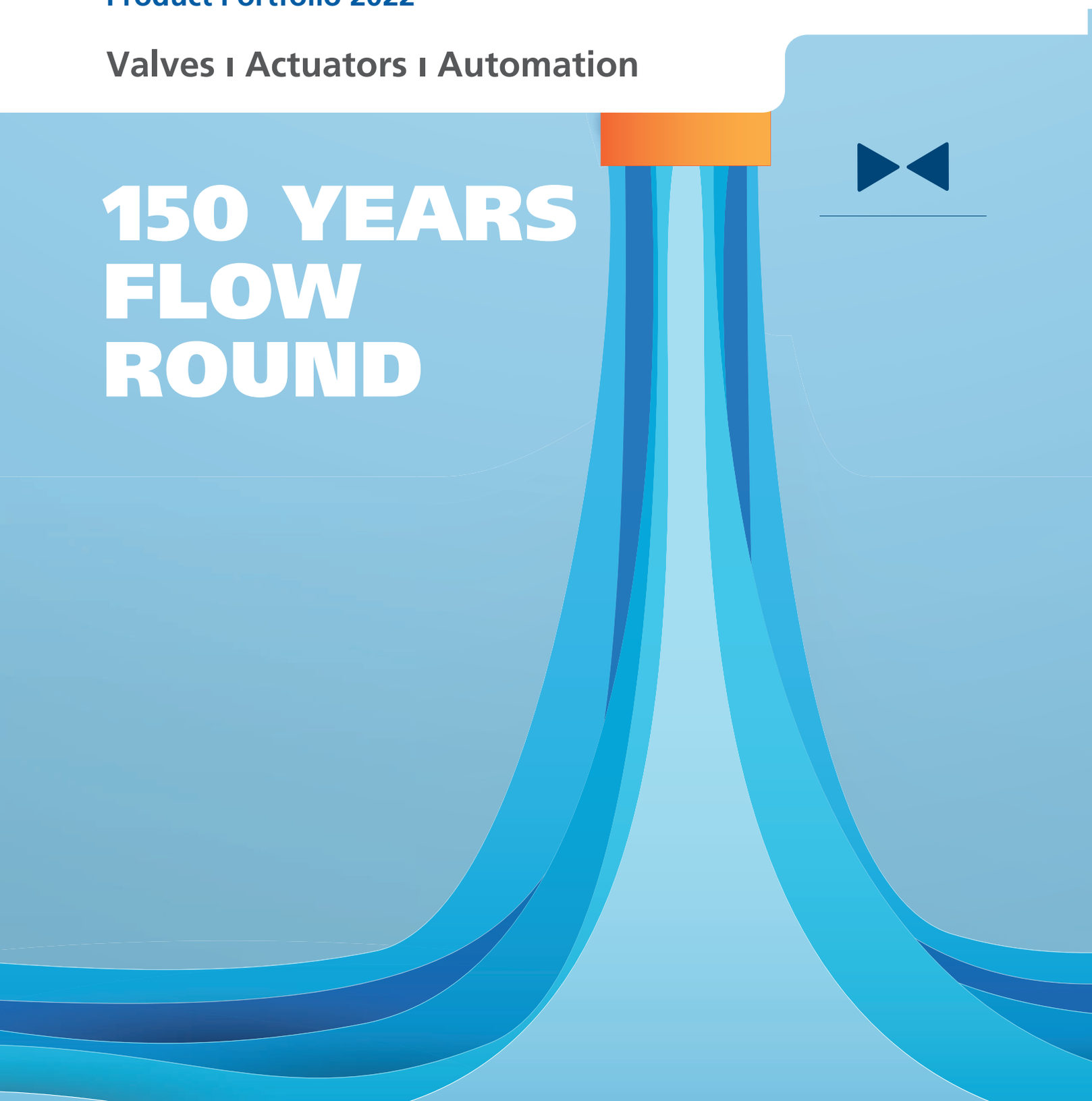
Product Portfolio 2022

Valves ı Actuators ı Automation

150 YEARS FLOW ROUND



Type Series Index

Our goal:
Quality down to the smallest detail

At KSB, customer satisfaction, safety and reliability take top priority when it comes to quality assurance. Besides ensuring compliance with international quality standards, all KSB pumps and valves have to fulfil even higher internal quality standards.

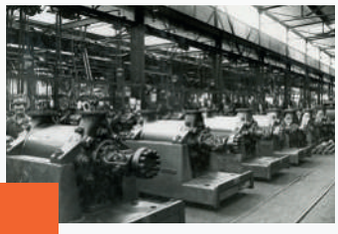
Our integrated quality management system includes a detailed evaluation process for our production sites and suppliers worldwide. As a KSB customer, you can therefore rest assured that no matter where or when you order, you will always experience consistently high quality. Thanks to our continuous improvement process, we produce pumps and valves with a long service life, excellent efficiency and low wear – as guaranteed by our internal certification system and the "Made by KSB" quality seal.

How KSB puts quality into daily practice

- Quality is when our customers are satisfied: We focus all of our efforts on our customers. Our global customer satisfaction analysis shows us how well we're doing.
- Quality is what every employee delivers: Everyone at KSB plays a part in creating a positive customer experience. To ensure the best results, all employees undergo continuous professional development.
- Quality is how processes interlock: We continuously check and improve work processes and the working environment.
- Quality is what our supply chain contributes: We set our quality targets in cooperation with our partners. This helps us raise quality across the entire supply chain to the highest level.
- Quality is how mistakes are dealt with: If we detect quality deviations, we determine the causes in order to eliminate them permanently.

THE GLOBAL COMPACT
WE SUPPORT

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



Creating the extraordinary. With passion.

We love what we do and that's why we go the extra mile to create truly extraordinary products for our customers. Our passion has been the secret to our success for 150 years and the reason why our pumps, valves and services continue to set new standards around the world.

KSB's superior products have the crucial edge in applications ranging from building services and industry to chemicals and petrochemicals, water supply and waste water treatment through to power stations and mining. Our innovative products and carefully devised solutions fulfil the highest requirements in terms of efficiency, availability and operating reliability. And that's just the start! Through our in-house research and development, unique engineering expertise and smart digital services, we are constantly expanding the boundaries of what is possible for our customers.

Our range of services is rounded off by a comprehensive service and spare parts portfolio that guarantees the highest quality, even when dealing with non-KSB products. Across KSB, our qualified and committed employees are passionately dedicated to keeping everything running smoothly for our customers.

KSB: Keeping everything flowing for 150 years.

KSB valve **brands**

In addition to the KSB umbrella brand, the Group offers valves under the following brands:

amri

Butterfly valves

The AMRI brand is used in building services, industry, water applications and power stations. AMRI products include pneumatic, hydraulic and electric actuators as well as control systems.

SISTO

Diaphragm valves

The SISTO brand handles shut-off tasks in building services, industry, water applications and power stations. Under the SISTO brand name, KSB offers specialised valves for sterile processes including biotech applications.

MIL

Control valves

The MIL brand is used in nuclear and fossil-fuelled power plants, refineries and the petrochemicals and chemicals industry. MIL products include pneumatic actuators and control systems.

General Information

Regional products	Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.
Key to actuators	In the Products section from page 24 the symbol ● in conjunction with the relevant letter indicates the actuator type(s) available. ● m = manual (lever, handwheel, etc.) ● e = electric actuator ● p = pneumatic actuator ● h = hydraulic actuator
Trademark rights	All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE & Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.
Product information	 For information as per chemicals Regulation (EC) No. 1907/2006 (REACH), see https://www.ksb.com/en-global/company/corporate-responsibility/reach.
Digital product catalogue	 https://www.ksb.com/en-gb/global-search
CAD portal	 http://ksb.partcommunity.com
BIM	 https://www.ksb.com/en-gb/software-and-know-how/configuration-tools

Valves

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	24	■		■		■		
	BOA-Compact	24	■		■		■		
	BOA-Compact EKB	24	■	■	■		■		
	BOA-W	24	■		■		■		
Bellows-type globe valves to DIN/EN	BOA-H	25			■	■	■		
	BOA-H/HE/HV/HEV	25	■		■	■	■		
	NORI 40 ZXLBV/ZXSBV	25			■	■	■		
	NORI 40 ZXLB/ZXSB	25	■		■	■	■		
	NORI 40 ZYLB/ZYSB	25			■	■	■		
	BOACHEM-ZXAB/ZYAB	26	■		■	■	■		
Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	26	■		■	■			■
	ECOLINE GLB 800	26	■		■	■			■
Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	26			■	■	■		
	NORI 40 ZXLF/ZXSF	27	■		■	■	■		
	NORI 160 ZXL/ZXS	27			■	■			
	NORI 160 ZXLF/ZXSF	27	■		■	■			
	NORI 320 ZXSV	27	■		■	■			
	NORI 500 ZXSV	27	■		■	■			
	BOACHEM-ZXA	28			■		■		
	ECOLINE VA16	28			■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	28	■		■	■			
	ECOLINE GLF 150-600	28	■		■	■			
	ECOLINE GLF 800	28	■		■	■			
	ECOLINE GLV 150-300	29	■		■	■			
	SICCA 150-600 GLC	29	■		■	■			
	SICCA 900-2500 GLC	29	■		■	■			
	SICCA 150-4500 GLF	29	■		■	■			
Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	29	■			■			
	ZXNB	30	■			■			
	ZXNVB	30				■			
	ZYNB/ZYN	30	■			■			
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	30	■	■	■		■		
	BOA-CVE H	31	■		■	■	■		
	BOA-CVP H	31	■		■	■	■		
Control valves to ANSI/ASME	MIL 10000	31	■		■				
	MIL 21000	31	■	■	■	■	■		■
	MIL 27000	31	■	■	■		■		■
	MIL 29000	32	■		■	■			■
	MIL 41000	32	■	■	■	■			■
	MIL 50000	32	■		■				
	MIL 70000	32	■		■	■			
	MIL 71000	32	■		■	■			
	MIL 76000	33	■		■	■			
	MIL 77000	33	■		■				
	MIL 78000	33	■		■	■			
	MIL 81000	33	■		■	■			
	MIL 91000	33	■		■	■			
Automatic recirculation valves	MIL 90000	34			■	■			
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	34	■	■	■		■		
	BOA-Control PIC	34	■		■		■		
	BOA-Control SBV	35			■		■		
	BOA-Control DPR	35			■		■		

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Level control valves to DIN/EN	CONDA-VLC	35		■					
Pressure reducing valves to DIN/EN	CONDA-VRC	35		■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	36		■					
Air valves to DIN/EN	BOAVENT-AVF	36		■					
	BOAVENT-SIF	36		■					
	BOAVENT-SVA	36		■					
	BOAVENT-SVF	37		■					
Vent valves for nuclear applications	SISTO-VentNA	37				■	■		
	SISTO-KRVNA	37				■			
Gate valves to DIN/EN	COBRA-SGP/SGO	37		■	■		■		
	COBRA-SMP	38		■	■		■		
	ECOLINE SP	38		■	■		■		
	ECOLINE GT 40	38	■		■				
	STAAL 40 AKD/AKDS	38	■		■	■			
	STAAL 100 AKD/AKDS	38	■		■	■			
	AKG-A/AKGS-A	39	■		■	■			
	ZTS	39	■		■	■			
Gate valves to ANSI/ASME	ECOLINE GTB 800	39	■		■	■			■
	ECOLINE GTC 150-600	39	■		■	■			
	ECOLINE GTF 150-600	39	■		■	■			
	ECOLINE GTF 800	40	■		■	■			
	ECOLINE GTV 150-300	40	■		■	■			
	SICCA 150-600 GTC	40	■		■	■			
	SICCA 900-3600 GTC	40	■		■	■			
	SICCA 150-2500 GTF	40	■		■	■			
Gate valves for nuclear applications	ZTN	41	■			■			
Body pressure relief valve	UGS	41			■	■			
Knife gate valves to DIN/EN	HERA-BD	41	■	■	■		■	■	
Knife gate valves to ANSI/ASME	HERA-BDS	42	■	■	■			■	
	HERA-BHT	42	■	■	■			■	
	HERA-SH	42	■	■	■			■	
Lift check valves to DIN/EN	BOA-RPL/RPL F-F	42		■			■		
	BOA-RFV	43		■	■		■		
	BOA-RVK	43			■	■	■		
	BOA-R	43			■	■	■		
	NORI 40 RXL/RXS	43			■	■	■		
	NORI 160 RXL/RXS	43			■	■			
	RGS	44			■	■			
	BOACHEM-RXA	44			■		■		
Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	44			■	■			
	ECOLINE PTF 800	44			■	■			
	SICCA 150-4500 PCF	44			■	■			
Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	45				■			
	RJN	45				■			
	RYN	45	■			■			
Swing check valves to DIN/EN	ECOLINE WT/WTI	45			■		■		
	STAAL 40 AKK/AKKS	46			■	■			
	STAAL 100 AKK/AKKS	46			■	■			
	AKR/AKRS	46			■	■			
	ZRS	46			■	■			
	SISTO-RSK/RSKS	46		■	■	■		■	
	SERIE 2000	47		■	■		■		

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	47			■	■			
	ECOLINE SCF 150-600	47			■	■			
	ECOLINE SCF 800	47			■	■			
	ECOLINE SCV 150-300	47			■	■			
	SICCA 150-600 SCC	48			■	■			
	SICCA 900-3600 SCC	48			■	■			
Swing check valves for nuclear applications	SISTO-RSKNA	48				■			
	ZRN	48				■			
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	49		■	■	■			
Strainers to DIN/EN	BOA-S	49			■	■	■		
	NORI 40 FSL/FSS	49			■	■	■		
	BOACHEM-FSA	49			■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	50			■	■			
	ECOLINE FYF 800	50			■	■			
Centred-disc butterfly valves	BOAX-CBV13	50		■	■	■	■		
	BOAX-S/SF	50	■				■		
	BOAX-B	51	■	■	■		■		
	ISORIA 10/16	51	■	■	■	■		■	
	ISORIA 20/25	51	■	■	■	■	■		
	ISORIA 20 UL	51	■		■				
	MAMMOUTH	51	■	■	■	■			
	KE	52	■	■	■				■
Double-offset butterfly valves	APORIS-DEB02	52		■	■	■			
	DANAÏS 150	52	■	■	■	■	■	■	■
	DANAÏS MTII	52	■		■	■		■	
	DANAÏS CRYO	53	■		■				
	DANAÏS CRYO AIR	53	■		■				
Triple-offset butterfly valves	TRIODIS 150	53	■		■	■			
	TRIODIS 300	53	■		■	■			
	TRIODIS 600	54	■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	54	■			■			
Combined butterfly/check valves	DUALIS	54		■					
Single-piece ball valves	MP-CI/MP-II	54	■	■					
	PROFIN VT1	55		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	55	■		■	■			■
	PROFIN VT2L	55		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	55	■		■	■			■
	PROFIN SI3	56	■	■	■		■		
	PROFIN VT3	56		■	■		■		
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	56	■	■	■	■		■	
	SISTO-16	56	■	■	■	■			
	SISTO-16S	57	■	■	■	■			
	SISTO-16RGAMaXX	57		■			■		
	SISTO-16TWA	57	■	■			■		
	SISTO-20	57	■		■	■			■
	SISTO-C	57	■	■					■
Diaphragm valves for nuclear applications	SISTO-20NA	58	■			■			
	SISTO-DrainNA	58				■			
Feed water bypass valves	ZJSVM/RJSVM	58	■		■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	58			■		■		
	ECOLINE GE4	59			■		■		

Actuators

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Levers	CR/CM	60	■	■	■	■		
	S/SR/SP	60	■	■	■	■		
Manual gearboxes	MN	60	■	■		■		
	MR	60	■	■	■	■	■	
Electric actuators	ACTELEC - AUMA	61	■	■	■	■		
	ACTELEC - BERNARD CONTROLS	61	■	■	■	■		
	SISTO-LAE	61	■	■	■	■	■	
Hydraulic actuators	HQ	61	■	■	■			
Pneumatic actuators	ACTAIR NG	62	■	■	■			
	DYNACTAIR NG	62	■	■	■			
	SISTO-LAD	62	■	■	■	■	■	
	SISTO-LAP	62	■	■	■	■	■	
	SISTO-C LAP	63						■
	MIL 37-38	63	■	■	■	■		■
	MIL 67-68	63	■	■	■			
Control accessories	RMD	63	■	■	■	■		

KSB offers a wide range of actuators. Just contact our specialists.

Automation

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Monitoring	AMTROBOX	64	■	■	■			
	AMTROBOX EEx ia	64	■	■	■			
	AMTROBOX ATEX Zone 22	64	■	■	■			
	AMTROBOX F	64	■		■	■		
	AMTROBOX M	64	■	■	■	■		
	AMTROBOX R	65	■	■	■			
	AMTROBOX R EEx ia	65	■	■	■			
ON/OFF valve controllers	AMTRONIC	65	■	■	■			
	AMTRONIC Ex ia	65	■	■	■			
Positioners	SMARTRONIC MA	66	■	■	■			
	SMARTRONIC AS-i	66	■	■	■			
Intelligent positioners	SMARTRONIC PC	66	■	■	■			

Fluids handled

	Soft-seated globe valves to DIN/EN	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	Bellows-type globe valves to DIN/EN	BOA-H	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXSBV	NORI 40 ZXLB/ZXSB	NORI 40 ZYLB/ZYSB	BOACHEM-ZXAB/ZYAB	Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	ECOLINE GLB 800	Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXSF	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXSF	NORI 320 ZXSV	NORI 500 ZXSV	BOACHEM-ZXA	ECOLINE VA16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 150-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800	ECOLINE GLV 150-300				
Abrasive fluids																																				
Waste water with faeces																																				
Waste water without faeces																																				
Aggressive fluids												■		■	■								■													
Inorganic fluids																																				
Activated sludge																																				
Brackish water																																				
Service water				■																						■		■								
Steam							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■				
Distillate																																				
Explosive fluids								■	■	■	■	■		■	■		■	■	■	■	■	■	■													
Digested sludge																																				
Solids-laden fluids																																				
Solids (ore, sand, gravel, ash)																																				
Flammable fluids							■	■	■	■	■	■					■	■	■	■	■	■	■													
River, lake and groundwater																								■												
Liquefied gas																																				
Fluids containing gas							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■				
Gases							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■				
Harmful fluids							■	■	■	■	■	■		■	■																					
Toxic fluids							■	■	■	■	■	■		■	■																					
High-temperature hot water							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■				
Heating water		■	■		■		■																			■		■								
Highly aggressive fluids												■		■	■								■													
Condensate							■	■	■	■	■	■		■	■		■	■					■	■		■			■	■						
Corrosive fluids												■		■	■								■			■	■	■								
Valuable fluids							■	■	■	■	■	■		■	■																					
Fuels																																				
Cooling water		■	■	■																				■												
Volatile fluids							■	■	■	■	■	■		■	■																					
Fire-fighting water																										■		■								
Solvents																																				
Seawater																										■	■	■								
Fluids containing mineral oils							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■		■	■	■	■	■	■				
Oils							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■				
Organic fluids																																				
Polymerising/crystallising fluids																	■	■	■	■	■	■	■													
Radioactive fluids																																				
Cleaning agents																																				
Raw sludge																																				
Lubricants																								■		■		■								
Grey water																										■		■								
Brine																																				
Feed water							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■				
Dipping paints																																				
Drinking water				■																																
Vacuum								■	■	■	■															■										
Thermal oils							■	■	■	■	■	■		■	■											■		■								
Wash water				■																				■		■		■								

Fluids handled

	Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	ZYNB/ZYN	ZXNB	ZXNVB	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control PIC	BOA-Control SBV	BOA-Control DPR	Level control valves to DIN/EN	CONDA-VLC	Pressure reducing valves to DIN/EN	CONDA-VRC	Pressure sustaining valves to DIN/EN	CONDA-VSM	Air valves	BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA	Vent valves for nuclear applications	SISTO-VentNA	SISTO-KRVNA
Abrasive fluids																												
Waste water with faeces																												
Waste water without faeces																												
Aggressive fluids																												
Inorganic fluids																												
Activated sludge																												
Brackish water																												
Service water							■	■	■		■	■	■	■													■	
Steam	■	■	■	■				■	■																		■	
Distillate																												
Explosive fluids																												
Digested sludge																												
Solids-laden fluids																												
Solids (ore, sand, gravel, ash)																												
Flammable fluids								■	■																			
River, lake and groundwater																												
Liquefied gas																												
Fluids containing gas		■	■	■	■			■	■																		■	
Gases		■	■	■	■			■	■																		■	
Harmful fluids																												
Toxic fluids		■	■	■	■																							
High-temperature hot water		■	■	■	■			■	■																		■	
Heating water							■	■	■		■	■	■	■												■	■	
Highly aggressive fluids																												
Condensate								■	■																		■	
Corrosive fluids																												
Valuable fluids																												
Fuels																												
Cooling water		■	■	■	■		■	■	■		■	■	■	■													■	
Volatile fluids																												
Fire-fighting water																											■	
Solvents																												
Seawater																												
Fluids containing mineral oils								■	■																			
Oils								■	■																			
Organic fluids																												
Polymerising/crystallising fluids																												
Radioactive fluids		■	■	■	■																							
Cleaning agents																												
Raw sludge																												
Lubricants																												
Grey water															■		■		■		■	■	■	■				
Brine																												
Feed water								■	■																		■	
Dipping paints																												
Drinking water							■				■				■		■		■		■	■	■	■				
Vacuum																											■	
Thermal oils																												
Wash water											■																	

Fluids handled

	Gate valves to DIN/EN	COBRA-SGP/SGO	COBRA-SMP	ECOLINE SP	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 150-2500 GTF	Gate valves for nuclear applications	ZTN	Knife gate valves to DIN/EN	HERA-BD	Knife gate valves to ANSI/ASME	HERA-BDS	HERA-BHT	HERA-SH	Body pressure relief valves	UGS	Lift check valves to DIN/EN	BOA-RPL/RPL F-F	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS	NORI 160 RXL/RXS
Abrasive fluids																								■										
Waste water with faeces																					■			■	■	■								
Waste water without faeces																					■			■	■	■								
Aggressive fluids																								■	■	■								
Inorganic fluids																																		
Activated sludge																					■			■	■	■								
Brackish water																																		
Service water		■	■	■												■		■			■			■	■	■			■					
Steam					■	■	■	■	■		■	■	■	■	■	■	■	■		■								■				■	■	■
Distillate																																		
Explosive fluids					■	■	■	■	■		■											■						■					■	■
Digested sludge																						■		■	■	■								
Solids-laden fluids																						■		■	■	■								
Solids (ore, sand, gravel, ash)																						■												
Flammable fluids																																■	■	■
River, lake and groundwater		■																				■							■					
Liquefied gas																																		
Fluids containing gas					■	■	■	■	■		■	■	■	■	■	■	■	■		■								■				■	■	■
Gases					■	■	■	■	■		■	■	■	■	■	■	■	■		■								■			■	■	■	■
Harmful fluids											■																					■	■	■
Toxic fluids											■									■												■	■	■
High-temperature hot water			■	■	■	■	■	■	■		■	■	■	■	■	■		■		■								■		■	■	■	■	■
Heating water			■	■									■			■		■												■	■	■			
Highly aggressive fluids											■																								
Condensate					■	■					■					■	■	■															■	■	
Corrosive fluids											■														■	■									
Valuable fluids											■																						■	■	■
Fuels																																		
Cooling water		■	■	■									■			■		■		■									■	■	■			
Volatile fluids											■																						■	■	■
Fire-fighting water																■		■																	
Solvents																																		
Seawater																■	■	■																	
Fluids containing mineral oils		■									■					■		■														■	■	■
Oils		■									■																						■	■	■
Organic fluids																																		
Polymerising/crystallising fluids																																	■	■
Radioactive fluids																				■														
Cleaning agents																																		
Raw sludge																						■			■	■								
Lubricants																■		■																	
Grey water		■														■		■				■			■	■			■					
Brine																																		
Feed water					■	■	■	■	■		■	■	■	■	■	■	■	■										■			■	■	■	■
Dipping paints																																		
Drinking water		■	■																										■					
Vacuum																■																	■	
Thermal oils					■	■					■					■		■															■	
Wash water																■		■																	

Fluids handled

	Lift check valves to DIN/EN	RGS	BOACHEM-RXA	Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	ECOLINE PTF 800	SICCA 150-4500 PCF	Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	RJN	RYN	Swing check valves to DIN/EN	ECOLINE WT/WTI	STAAL 40 AKK/AKKS	STAAL 100 AKK/AKKS	AKR/AKRS	ZRS	SISTO-RSK/RSKS	SERIE 2000	Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	ECOLINE SCF 150-600	ECOLINE SCF 800	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	Swing check valves for nuclear applications	SISTO-RSKNA	ZRN	Tilting disc check valves to DIN/EN	COBRA-TDC01/03
Abrasive fluids																		■	■									■			
Waste water with faeces																															
Waste water without faeces																		■													
Aggressive fluids			■															■	■												
Inorganic fluids																		■													
Activated sludge																															
Brackish water																		■													
Service water							■						■					■	■						■					■	
Steam		■	■		■	■	■		■	■	■			■	■	■	■		■		■	■	■	■	■	■			■		
Distillate																		■													
Explosive fluids		■	■											■	■	■	■		■												
Digested sludge																		■													
Solids-laden fluids																		■													
Solids (ore, sand, gravel, ash)																															
Flammable fluids		■	■																■												
River, lake and groundwater																		■										■			■
Liquefied gas																															
Fluids containing gas		■	■		■	■	■		■	■	■			■	■	■	■				■	■	■	■	■	■			■		
Gases		■	■		■	■			■	■	■			■	■	■	■		■		■	■	■	■	■	■			■		
Harmful fluids		■	■															■													
Toxic fluids		■	■						■	■	■							■	■										■		
High-temperature hot water		■	■		■	■	■		■	■	■		■	■	■	■	■		■		■	■	■	■	■				■		
Heating water							■						■												■						
Highly aggressive fluids			■															■													
Condensate			■				■							■				■							■	■					
Corrosive fluids			■															■	■												
Valuable fluids		■	■																												
Fuels													■																		
Cooling water							■		■	■	■		■	■				■	■						■				■		■
Volatile fluids		■	■																■		■	■	■	■							
Fire-fighting water							■											■							■						
Solvents																		■													
Seawater																		■	■						■	■		■			
Fluids containing mineral oils		■	■				■						■					■	■						■						
Oils		■	■				■						■								■	■	■	■	■						
Organic fluids																		■													
Polymerising/crystallising fluids		■	■																												
Radioactive fluids									■	■	■							■										■			
Cleaning agents																		■													
Raw sludge																		■													
Lubricants							■											■							■						
Grey water							■											■							■			■			
Brine																		■													
Feed water		■	■		■	■	■							■	■	■	■				■	■	■	■	■	■					
Dipping paints																		■													
Drinking water																		■	■												
Vacuum														■																	
Thermal oils			■				■							■	■				■						■						
Wash water							■						■					■							■						

Fluids handled

	Strainers to DIN/EN	BOA-S	NORI 40 FSL/FSS	BOACHEM-FSA	Strainers to ANSI/ASME	ECOLINE FYC 150-600	ECOLINE FYF 800	Centred-disc butterfly valves	BOAX-CBV13	BOAX-S/SF	BOAX-B	ISORIA 10/16	ISORIA 20/25	ISORIA 20 UL	MAMMOUTH	KE	Double-offset butterfly valves	APORIS-DEB02	DANAÏS 150	DANAÏS MTII	DANAÏS CRYO	DANAÏS CRYO AIR	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS	Single-piece ball valves	MP-CI/MP-II	PROFIN VT1	Two-piece ball valves	ECOLINE BLT 150-300	PROFIN VT2L
Abrasive fluids												■	■			■																				
Waste water with faeces																																				
Waste water without faeces											■																									
Aggressive fluids				■								■				■			■	■				■	■	■					■			■	■	
Inorganic fluids												■				■																			■	
Activated sludge																																				
Brackish water												■	■																							
Service water									■			■	■		■			■														■	■		■	■
Steam		■	■	■		■	■												■	■				■	■	■		■							
Distillate												■				■																				
Explosive fluids			■	■								■				■																				
Digested sludge																																				
Solids-laden fluids		■	■	■								■	■			■			■	■				■	■	■				■					
Solids (ore, sand, gravel, ash)																			■	■				■	■	■									
Flammable fluids		■	■	■												■			■	■				■	■	■					■				
River, lake and groundwater												■	■		■			■														■	■			■
Liquefied gas																						■	■	■	■	■										
Fluids containing gas		■	■	■		■	■					■																							■	
Gases		■	■	■		■	■				■	■							■	■	■	■		■	■	■		■				■			■	
Harmful fluids		■	■	■												■																			■	■
Toxic fluids		■	■	■								■				■			■	■															■	
High-temperature hot water		■	■	■		■	■												■	■				■	■	■						■		■	
Heating water		■								■	■																					■				
Highly aggressive fluids				■												■			■																■	
Condensate		■	■	■								■				■																	■		■	■
Corrosive fluids				■								■				■			■	■				■	■	■				■		■	■	■	■
Valuable fluids		■	■	■																																
Fuels																			■	■				■	■	■								■	
Cooling water									■	■	■	■	■		■			■														■	■		■	■
Volatile fluids		■	■	■								■				■			■	■				■	■	■									
Fire-fighting water												■	■	■																		■	■			■
Solvents												■	■			■																				
Seawater												■	■		■			■													■					
Fluids containing mineral oils		■	■	■		■	■		■	■	■	■	■			■			■	■				■	■	■									
Oils		■	■	■		■	■		■	■	■	■				■			■	■				■	■	■						■	■	■	■
Organic fluids												■	■			■																			■	
Polymerising/crystallising fluids												■				■				■				■	■	■									
Radioactive fluids												■	■		■				■	■				■	■	■									
Cleaning agents												■				■			■													■				
Raw sludge																																				
Lubricants																			■														■			■
Grey water												■																			■					
Brine												■				■			■																	
Feed water		■	■	■		■	■																									■			■	
Dipping paints																																				
Drinking water									■	■	■	■	■		■			■													■		■	■	■	■
Vacuum			■						■			■				■				■	■			■	■	■										
Thermal oils		■	■	■																■	■			■	■	■									■	
Wash water												■	■																				■	■			■

Fluids handled

	Three-piece ball valves	ECOLINE BLC 1000	PROFIN SI3	PROFIN VT3	Soft-seated diaphragm valves to DIN/EN	SISTO-KB	SISTO-16	SISTO-16S	SISTO-16RGAMaXX	SISTO-16TWA	SISTO-20	SISTO-C	Diaphragm valves for nuclear applications	SISTO-20NA	SISTO-DrainNA	Feed water bypass valves	ZJSVM/RJSVM	Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	ECOLINE GE4	Control valves to ANSI/ASME	MIL 10000	MIL 21000	MIL 27000	MIL 29000	MIL 41000	MIL 50000	MIL 70000	MIL 71000	MIL 76000	MIL 77000	MIL 78000	MIL 81000	MIL 91000	Automatic recirculation valves	MIL 90000
Abrasive fluids						■																													
Waste water with faeces						■																													
Waste water without faeces						■	■	■			■								■	■		■	■	■				■	■				■		
Aggressive fluids		■				■	■	■			■	■																							
Inorganic fluids		■				■	■	■			■	■										■	■	■		■		■	■			■	■		
Activated sludge						■																													
Brackish water						■	■	■			■																								
Service water		■	■	■		■	■	■	■	■	■								■	■		■	■	■		■		■	■	■	■	■	■		■
Steam											■	■					■					■	■	■		■		■	■	■	■		■			
Distillate						■	■	■				■										■	■	■	■	■		■	■	■	■	■	■			
Explosive fluids																																			
Digested sludge						■																													
Solids-laden fluids						■																													
Solids (ore, sand, gravel, ash)						■																													
Flammable fluids			■				■	■														■	■	■	■	■		■	■	■	■	■	■	■	
River, lake and groundwater			■	■		■	■	■	■	■	■			■					■	■		■	■	■	■	■	■	■	■	■	■	■	■		■
Liquefied gas																						■					■								
Fluids containing gas		■					■	■			■											■	■	■		■	■	■	■	■	■	■	■		
Gases		■					■	■			■	■		■								■	■	■		■	■	■	■		■	■	■		
Harmful fluids		■	■	■		■	■	■			■	■		■								■	■	■	■	■	■	■	■	■	■	■	■		
Toxic fluids		■				■	■	■			■	■		■								■	■	■	■	■	■	■	■	■	■	■	■		
High-temperature hot water		■	■				■	■		■	■	■										■	■	■	■	■		■	■	■	■	■	■		
Heating water			■						■	■				■	■							■	■	■	■	■		■	■	■	■	■	■		■
Highly aggressive fluids		■									■																								
Condensate		■	■	■			■	■		■	■	■										■	■	■	■	■	■	■	■	■	■	■	■		■
Corrosive fluids		■	■	■		■	■	■			■	■										■	■	■		■	■	■	■	■	■	■	■		
Valuable fluids																																			
Fuels		■									■			■								■	■	■		■	■	■	■	■	■	■	■		
Cooling water		■	■	■		■	■	■	■	■	■								■	■		■	■	■	■	■		■	■	■	■	■	■		■
Volatile fluids							■	■			■	■										■	■	■		■	■	■	■	■	■		■		
Fire-fighting water			■	■					■	■				■								■	■	■		■		■	■	■	■	■	■		■
Solvents			■	■		■	■	■			■	■		■																					
Seawater						■	■	■	■	■	■												■			■		■	■							
Fluids containing mineral oils						■	■	■			■								■				■			■		■	■							
Oils		■	■	■			■	■			■											■	■	■	■	■		■	■	■	■		■		
Organic fluids		■					■	■			■	■										■	■	■		■		■	■	■	■		■		
Polymerising/crystallising fluids						■	■	■			■	■																							
Radioactive fluids											■	■		■									■												
Cleaning agents			■	■			■	■			■	■										■	■	■	■	■	■	■	■	■	■	■	■		
Raw sludge						■																													
Lubricants			■	■		■	■	■			■											■	■	■	■	■	■	■	■	■	■	■	■		
Grey water						■	■	■											■	■															
Brine						■	■	■			■											■	■					■							
Feed water		■															■		■	■		■	■	■	■	■		■	■	■	■	■	■		■
Dipping paints			■			■	■	■			■																								
Drinking water		■	■	■					■	■									■	■		■	■	■	■	■		■	■	■	■	■	■		■
Vacuum							■	■			■	■										■	■			■		■	■	■	■	■	■		
Thermal oils		■																				■	■	■	■	■		■	■	■	■		■		
Wash water			■	■		■	■	■																											

Applications

	Soft-seated globe valves to DIN/EN	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	Bellows-type globe valves to DIN/EN	BOA-H	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXSBV	NORI 40 ZXLB/ZXSB	NORI 40 ZYLB/ZYSB	BOACHEM-ZXAB/ZYAB	Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	ECOLINE GLB 800	Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXSF	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXSF	NORI 320 ZXSV	NORI 500 ZXSV	BOACHEM-ZXA	ECOLINE VA16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 150-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800	ECOLINE GLV 150-300				
Spray irrigation																																				
Mining																	■	■	■	■	■	■														
General irrigation																																				
Chemical industry							■	■	■	■	■	■					■	■	■	■	■	■	■													
Pressure boosting																																				
Disposal																																				
Drainage																																				
Descaling units																	■	■	■	■	■	■														
District heating							■																	■													
Solids transport																																				
Fire-fighting systems																																				
Gas pipelines																										■	■	■								
Gas storage facilities																																				
Maintaining groundwater levels																																				
Domestic water supply				■																				■												
HVAC systems		■	■	■	■		■	■																												
Homogenisation																																				
Industrial recirculation systems																								■												
Nuclear power stations								■	■	■	■						■	■	■	■	■	■														
Boiler feed applications							■	■	■	■	■						■	■	■	■	■	■				■	■	■	■	■	■	■	■			
Boiler recirculation							■	■	■	■	■						■	■	■	■	■	■														
Waste water treatment plants																																				
Air-conditioning systems		■	■	■	■		■																	■												
Condensate transport							■	■	■	■	■	■					■	■																		
Fossil-fuelled power stations																	■	■	■	■	■	■				■	■	■	■	■	■	■	■			
Cooling circuits				■																				■												
Paint shops							■	■																												
Food and beverage industry												■		■	■								■													
Seawater desalination / reverse osmosis																																				
Mixing																																				
Pulp and paper industry																	■	■	■	■	■	■	■			■	■	■								
Petrochemical industry								■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			
Pharmaceutical industry																																				
Pipelines and tank farms																										■	■	■	■	■	■	■	■			
Refineries																										■	■	■	■	■	■	■	■			
Flue gas desulphurisation																																				
Rainwater harvesting																								■												
Recirculation																								■												
Shipbuilding							■	■									■	■	■	■	■	■														
Sludge disposal																																				
Sludge processing																																				
Snow-making systems																	■	■	■	■																
Swimming pools																																				
Keeping in suspension																																				
Thermal oil circulation							■	■	■	■	■																									
Process engineering							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			
Heat recovery systems		■	■		■																															
Hot-water heating systems		■	■		■		■																	■												
Washing plants				■																																
Water treatment																																				
Water extraction																																				
Water supply				■																																
Sugar industry							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■								

Applications

	Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	ZYNB/ZYN	ZXNB	ZXNVB	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control PIC	BOA-Control SBV	BOA-Control DPR	Level control valves to DIN/EN	CONDA-VLC	Pressure reducing valves to DIN/EN	CONDA-VRC	Pressure sustaining valves to DIN/EN	CONDA-VSM	Air valves	BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA	Vent valves for nuclear applications	SISTO-VentNA	SISTO-KRVNA
Spray irrigation																											
Mining																											
General irrigation																											
Chemical industry								■	■																		
Pressure boosting																											
Disposal																											
Drainage																											
Descaling units																											
District heating																											
Solids transport																											
Fire-fighting systems																											
Gas pipelines																											
Gas storage facilities																											
Maintaining groundwater levels																											
Domestic water supply							■				■	■	■	■		■		■		■	■	■	■	■			
HVAC systems							■	■			■	■	■	■													
Homogenisation																											
Industrial recirculation systems																											
Nuclear power stations		■	■	■	■																					■	■
Boiler feed applications								■	■																		
Boiler recirculation								■	■																		
Waste water treatment plants																											
Air-conditioning systems							■	■	■		■	■	■	■													
Condensate transport																											
Fossil-fuelled power stations																											
Cooling circuits							■	■	■		■	■	■	■													
Paint shops																											
Food and beverage industry																											
Seawater desalination / reverse osmosis																											
Mixing																											
Pulp and paper industry																											
Petrochemical industry																											
Pharmaceutical industry																											
Pipelines and tank farms																											
Refineries																											
Flue gas desulphurisation																											
Rainwater harvesting																											
Recirculation																											
Shipbuilding																											
Sludge disposal																											
Sludge processing																											
Snow-making systems								■																			
Swimming pools																											
Keeping in suspension																											
Thermal oil circulation								■	■																		
Process engineering								■	■																		
Heat recovery systems							■	■	■		■	■	■	■													
Hot-water heating systems							■	■	■		■	■	■	■													
Washing plants																											
Water treatment																■		■		■	■	■	■	■			
Water extraction																											
Water supply							■				■	■	■	■		■		■		■	■	■	■	■			
Sugar industry								■	■																		

Applications

	Gate valves to DIN/EN	COBRA-SGP/SGO	COBRA-SMP	ECOLINE SP	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 150-2500 GTF	Gate valves for nuclear applications	ZTN	Knife gate valves to DIN/EN	HERA-BD	Knife gate valves to ANSI/ASME	HERA-BDS	HERA-BHT	HERA-SH	Body pressure relief valves	UGS	Lift check valves to DIN/EN	BOA-RPL/RPL F-F	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS	NORI 160 RXL/RXS	
Spray irrigation																																			
Mining					■	■	■	■																■										■	■	
General irrigation		■																				■								■						
Chemical industry						■	■	■	■															■					■				■	■	■	
Pressure boosting		■																																		
Disposal																																				
Drainage																						■			■	■									
Descaling units					■	■	■	■																										■	■	
District heating																																				
Solids transport																						■		■	■	■									
Fire-fighting systems																																				
Gas pipelines																■	■	■																		
Gas storage facilities																																				
Maintaining groundwater levels																																				
Domestic water supply		■	■	■								■																		■						
HVAC systems																																■	■			
Homogenisation																																				
Industrial recirculation systems																																				
Nuclear power stations						■	■	■	■			■	■	■	■					■														■	■	
Boiler feed applications					■	■	■	■	■							■	■	■										■						■	■	
Boiler recirculation					■	■	■	■	■																			■						■	■	
Waste water treatment plants																						■			■	■									
Air-conditioning systems		■	■	■									■																	■			■			
Condensate transport					■	■						■	■	■	■	■	■																■	■		
Fossil-fuelled power stations						■	■	■	■							■	■											■						■	■	
Cooling circuits		■	■	■									■																	■						
Paint shops																																				
Food and beverage industry											■																									
Seawater desalination / reverse osmosis																																				
Mixing																																				
Pulp and paper industry					■	■	■	■	■			■	■	■	■	■	■	■				■			■	■		■						■	■	
Petrochemical industry					■	■	■	■	■		■					■	■	■										■						■	■	
Pharmaceutical industry												■	■	■	■	■	■	■																		
Pipelines and tank farms												■	■	■	■	■	■	■																		
Refineries																■	■	■																		
Flue gas desulphurisation																																				
Rainwater harvesting																						■														
Recirculation																																				
Shipbuilding					■	■	■	■																										■	■	
Sludge disposal																						■			■	■									
Sludge processing																						■			■	■									
Snow-making systems					■	■	■	■																												
Swimming pools																																				
Keeping in suspension																																				
Thermal oil circulation					■	■						■	■	■	■	■	■	■															■			
Process engineering					■	■	■	■	■		■					■	■											■					■	■	■	
Heat recovery systems																																				
Hot-water heating systems			■	■																											■	■				
Washing plants																						■				■									
Water treatment		■	■	■									■													■			■						
Water extraction																																				
Water supply		■	■	■									■																■	■					
Sugar industry					■	■	■	■	■		■																	■				■	■	■	

Applications

	Lift check valves to DIN/EN	RGS	BOACHEM-RXA	Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	ECOLINE PTF 800	SICCA 150-4500 PCF	Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	RJN	RYN	Swing check valves to DIN/EN	ECOLINE WT/WTI	STAAL 40 AKK/AKKS	STAAL 100 AKK/AKKS	AKR/AKRS	ZRS	SISTO-RSK/RSKS	SERIE 2000	Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	ECOLINE SCF 150-600	ECOLINE SCF 800	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	Swing check valves for nuclear applications	SISTO-RSKNA	ZRN	Tilting disc check valves to DIN/EN	COBRA-TDC01/03
Spray irrigation																															
Mining		■					■							■	■	■										■						
General irrigation					■														■												■	
Chemical industry		■	■				■							■	■	■	■	■	■							■						
Pressure boosting																																
Disposal																																
Drainage																																
Descaling units		■	■				■							■	■	■										■	■					
District heating													■																			
Solids transport																																
Fire-fighting systems																		■														
Gas pipelines																																
Gas storage facilities																																
Maintaining groundwater levels																																
Domestic water supply							■						■													■						
HVAC systems																																
Homogenisation																																
Industrial recirculation systems													■						■													
Nuclear power stations		■							■	■	■			■	■	■	■												■	■		
Boiler feed applications		■				■	■							■	■	■	■					■	■	■	■	■	■					
Boiler recirculation		■					■							■	■	■	■									■	■					
Waste water treatment plants																																
Air-conditioning systems													■					■	■													
Condensate transport			■											■																		
Fossil-fuelled power stations		■	■			■	■							■	■	■	■					■	■	■	■	■	■					
Cooling circuits							■						■	■												■					■	
Paint shops																																
Food and beverage industry																																
Seawater desalination / reverse osmosis					■													■	■												■	
Mixing																																
Pulp and paper industry		■	■				■							■	■	■	■		■							■	■					
Petrochemical industry		■	■			■	■							■	■	■	■		■			■	■	■	■	■	■					
Pharmaceutical industry							■																			■						
Pipelines and tank farms						■	■															■	■	■	■	■	■					
Refineries						■	■															■	■	■	■	■	■					
Flue gas desulphurisation																		■														
Rainwater harvesting							■						■													■						
Recirculation							■						■													■						
Shipbuilding		■	■											■	■	■			■												■	
Sludge disposal																																
Sludge processing																																
Snow-making systems														■	■	■																
Swimming pools																																
Keeping in suspension																																
Thermal oil circulation							■							■					■							■						
Process engineering		■	■			■	■							■	■	■	■	■	■			■	■	■	■	■	■					
Heat recovery systems							■							■												■	■					
Hot-water heating systems							■						■						■							■						
Washing plants																																
Water treatment					■													■	■												■	
Water extraction							■																			■						
Water supply					■		■												■							■					■	
Sugar industry		■	■				■							■	■	■	■		■							■	■					

Applications

	Strainers to DIN/EN	BOA-S	NORI 40 FSL/FSS	BOACHEM-FSA	Strainers to ANSI/ASME	ECOLINE FYC 150-600	ECOLINE FYF 800	Centred-disc butterfly valves	BOAX-CBV13	BOAX-S/SF	BOAX-B	ISORIA 10/16	ISORIA 20/25	ISORIA 20 UL	MAMMOUTH	KE	Double-offset butterfly valves	APORIS-DEB02	DANAÏS 150	DANAÏS MTII	DANAÏS CRYO	DANAÏS CRYO AIR	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS	Single-piece ball valves	MP-CI/MP-II	PROFIN VT1	Two-piece ball valves	ECOLINE BLT 150-300	PROFIN VT2L
Spray irrigation										■	■	■																					■			■
Mining		■	■									■							■	■				■	■	■							■			■
General irrigation									■	■	■	■	■		■			■															■			■
Chemical industry		■	■	■								■				■			■	■				■	■	■							■		■	■
Pressure boosting									■	■	■	■	■						■	■				■	■	■							■			■
Disposal																																				
Drainage																																				
Descaling units			■									■																								
District heating																			■													■				
Solids transport																																				
Fire-fighting systems												■		■									■										■			■
Gas pipelines																							■													
Gas storage facilities																							■	■	■	■										
Maintaining groundwater levels																																				
Domestic water supply									■	■	■																					■	■			■
HVAC systems										■																							■			■
Homogenisation																																				
Industrial recirculation systems												■				■			■	■				■	■	■						■	■			■
Nuclear power stations			■																■	■				■	■	■		■								
Boiler feed applications		■	■			■	■																													
Boiler recirculation		■	■																																	
Waste water treatment plants																														■						
Air-conditioning systems									■	■	■								■	■				■	■	■						■	■			■
Condensate transport		■	■	■																																
Fossil-fuelled power stations			■			■	■												■	■				■	■	■									■	
Cooling circuits												■	■		■			■														■	■			■
Paint shops										■	■	■																					■			■
Food and beverage industry				■								■							■																■	
Seawater desalination / reverse osmosis												■	■		■	■		■																		
Mixing												■																								
Pulp and paper industry		■	■	■								■	■			■			■	■				■	■	■							■		■	■
Petrochemical industry		■	■	■		■	■												■	■				■	■	■								■	
Pharmaceutical industry																■			■																■	
Pipelines and tank farms						■	■					■	■		■				■		■	■		■	■	■							■		■	■
Refineries						■	■												■																■	
Flue gas desulphurisation												■	■		■																					
Rainwater harvesting										■	■																						■	■			■
Recirculation																																	■				
Shipbuilding		■	■									■	■		■			■	■		■			■	■	■										
Sludge disposal																																				
Sludge processing																																				
Snow-making systems			■																															■		■
Swimming pools										■	■					■																		■			■
Keeping in suspension																																				
Thermal oil circulation		■	■																■	■				■	■	■								■	
Process engineering		■	■	■		■	■					■	■			■			■	■	■	■		■	■	■							■	■	■
Heat recovery systems																																				
Hot-water heating systems										■	■								■	■				■	■	■						■				
Washing plants										■	■	■	■																					■			■
Water treatment									■		■	■	■		■	■		■																■			■
Water extraction											■	■																									
Water supply									■						■			■																■			■
Sugar industry		■	■	■								■	■			■			■																	

Applications

	Three-piece ball valves	ECOLINE BLC 1000	PROFIN SI3	PROFIN VT3	Soft-seated diaphragm valves to DIN/EN	SISTO-KB	SISTO-16	SISTO-16S	SISTO-16RGAMaXX	SISTO-16TWA	SISTO-20	SISTO-C	Diaphragm valves for nuclear applications	SISTO-20NA	SISTO-DrainNA	Feed water bypass valves	ZISVM/RJSVM	Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	ECOLINE GE4	Control valves to ANSI/ASME	MIL 10000	MIL 21000	MIL 27000	MIL 29000	MIL 41000	MIL 50000	MIL 70000	MIL 71000	MIL 76000	MIL 77000	MIL 78000	MIL 81000	MIL 91000	Automatic recirculation valves	MIL 90000
Spray irrigation			■	■																			■		■	■									
Mining			■	■		■																	■			■									
General irrigation			■	■					■	■									■	■			■			■									
Chemical industry	■		■	■		■	■	■			■												■	■		■									
Pressure boosting			■	■					■	■																									
Disposal																																			
Drainage						■																													
Descaling units						■																													
District heating						■			■	■									■	■															
Solids transport						■																■													
Fire-fighting systems			■	■					■	■																									
Gas pipelines																							■		■										
Gas storage facilities																																			
Maintaining groundwater levels						■																													
Domestic water supply			■	■					■	■									■	■			■		■										
HVAC systems			■	■					■	■													■		■										
Homogenisation							■	■			■	■																							
Industrial recirculation systems			■	■		■	■	■			■																								
Nuclear power stations														■	■		■						■		■	■					■		■		■
Boiler feed applications																	■									■					■		■		
Boiler recirculation																	■						■			■					■		■		
Waste water treatment plants						■																	■			■									
Air-conditioning systems			■	■			■	■	■	■	■								■	■			■			■									
Condensate transport						■	■	■			■	■											■			■									
Fossil-fuelled power stations	■					■	■	■			■						■						■			■					■		■		■
Cooling circuits			■	■			■	■	■	■	■								■	■			■			■									
Paint shops			■	■		■	■	■			■																								
Food and beverage industry	■											■							■	■															
Seawater desalination / reverse osmosis							■	■			■												■			■									
Mixing							■	■			■	■																							
Pulp and paper industry	■	■	■			■	■	■			■												■			■									■
Petrochemical industry	■					■	■	■			■												■			■									
Pharmaceutical industry	■											■											■	■											
Pipelines and tank farms	■	■	■																																
Refineries	■					■	■	■			■																								
Flue gas desulphurisation						■	■	■			■												■			■									
Rainwater harvesting			■	■					■	■																									
Recirculation																							■			■									
Shipbuilding						■	■	■		■	■																								
Sludge disposal						■																■													
Sludge processing						■																■													
Snow-making systems			■	■																															
Swimming pools			■	■					■	■																									
Keeping in suspension						■																													
Thermal oil circulation		■																					■			■									
Process engineering		■	■	■		■	■	■			■	■																							
Heat recovery systems									■	■																									
Hot-water heating systems									■	■									■	■			■			■									
Washing plants			■	■		■	■	■																											
Water treatment			■	■		■	■	■			■	■											■			■									
Water extraction							■																												
Water supply			■	■					■	■													■			■									
Sugar industry						■	■	■			■	■											■			■									■

Soft-seated globe valves to DIN/EN

BOA-SuperCompact

PN	6/10/16
DN	20 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with wafer-type body, super-compact DN face-to-face length to EN 558/94, slanted seat design with vertical bonnet, with flange alignment holes for centring, dead-end service and downstream dismantling; single-piece body, insulating cap with anti-condensation feature as standard, position indicator, locking device, travel stop, soft main and back seat; maintenance-free, full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and grey cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B03A

BOA-Compact

PN	6/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with flanged ends, short face-to-face length to EN 558/14, slanted seat design with vertical bonnet, single-piece body, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anti-condensation feature; maintenance-free, full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B01A

BOA-Compact EKB

PN	10/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +80

Description
Globe valve to DIN/EN with flanged ends, compact face-to-face length for drinking water supply systems, with electrostatic plastic coating inside and outside, slanted seat design with vertical bonnet, EPDM-encapsulated throttling plug, single-piece body, position indicator, locking device, travel stop, soft main and back seat; maintenance-free, (PN 10 DVGW-approved).

Applications
Water supply systems, drinking water, air-conditioning systems. Cooling circuits. Suitable for installation in copper pipes as per installation instructions (operating manual). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and the electrostatic plastic coating. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B02A

BOA-W

PN	6/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with flanged ends, standard face-to-face length to EN 558/1, slanted seat design with vertical bonnet, single-piece body, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anti-condensation feature; maintenance-free; full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and grey cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B07B

Bellows-type globe valves to DIN/EN

BOA-H

PN	16/25
DN	15 - 350
T [°C]	≥ -10 - ≤ +350

Description
Bellows-type globe valve to DIN/EN with flanged ends, with on/off disc or throttling plug, standard position indicator with colour coding for identification of valve design, replaceable valve disc; bellows protected when valve is in fully open position; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Hot-water heating systems, high-temperature hot water systems, cooling circuits, heat transfer systems, general steam applications in building services and industry. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/B08A

BOA-H/HE/HV/HEV

PN	25/40
DN	10 - 350
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (BOA-H and BOA-HV), butt weld ends or socket weld ends (BOA-HE and BOA-HEV), with on/off disc or throttling plug, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, building services, power stations and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/B19A

NORI 40 ZXLBV/ZXSBV

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZXLBV), butt weld ends or socket weld ends (ZXSBV), tapered on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/N04A

NORI 40 ZXLB/ZXSB

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZXLB), butt weld ends or socket weld ends (ZXSB), replaceable tapered on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/N03A

NORI 40 ZYLB/ZYSB

PN	25/40
DN	15 - 300
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZYLB) or butt weld ends (ZYSB), Y-valve, with replaceable throttling plug (up to DN 100) or on/off disc (DN 125 and above), single-piece non-rotating stem, position indicator, travel stop, locking device; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/N51A

BOACHEM-ZXAB/ZYAB

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Bellows-type globe valve to DIN/EN with flanged ends, body made of stainless steel, with replaceable on/off disc or throttling plug.

Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/B39B

Bellows-type globe valves to ANSI/ASME

ECOLINE GLB 150-600

Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +427

Description
Globe valve to ANSI/ASME with flanged ends, cast steel/stainless steel body, trim and bellows made of stainless steel, with bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E14A

ECOLINE GLB 800

Class	150 - 800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +427

Description
Globe valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E17A

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS

PN	25/40
DN	10 - 400
T [°C]	≥ -10 - ≤ +450

Description
Globe valve to DIN/EN with flanged ends (ZXL), butt weld ends or socket weld ends (ZXS), with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m

https://www.ksb.com/en-gb/lc/N02A

NORI 40 ZXLF/ZXSF

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/N05A

NORI 160 ZXL/ZXS

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Globe valve to DIN/EN with flanged ends (ZXL), butt weld ends or socket weld ends (ZXS), with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m https://www.ksb.com/en-gb/lc/N12A

NORI 160 ZXLF/ZXSF

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/N13A

NORI 320 ZXSV

PN	250 - 320
DN	10 - 50
T [°C]	≥ -10 - ≤ +580

Description
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/N20A

NORI 500 ZXSV

PN	250 - 500
DN	10 - 65
T [°C]	≥ -10 - ≤ +650

Description
Globe valve to DIN/EN with butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/N21A

BOACHEM-ZXA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Globe valve to DIN/EN with flanged ends, body made of stainless steel, gland packing, rotating stem, with on/off disc or throttling plug.
Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/B38B

ECOLINE VA16

PN	16
DN	15 - 250
T [°C]	≥ -10 - ≤ +300

Description
Globe valve to DIN/EN with flanged ends, body made of cast iron, with gland packing, rotating stem, with on/off disc or throttling plug.
Applications
District heating, domestic water supply, air-conditioning systems, cooling circuits, high-temperature hot water heating systems, water supply.

m, e

https://www.ksb.com/en-gb/lc/E72A

Globe valves to ANSI/ASME with gland packing

ECOLINE GLC 150-600

Class	150 - 600
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +649

Description
Globe valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets.
Applications
Refineries, power stations, process engineering and general industrial applications; water, steam, oil, gas. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E56A

ECOLINE GLF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Globe valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, reduced bore.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/EF5A

ECOLINE GLF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Globe valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/E57A

Not available for worldwide sale Actuator/Automation

ECOLINE GLV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Globe valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel / graphite gasket.

Applications
Fine chemicals, food industry, general industry. For water, steam, gas and other fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/EF3B

SICCA 150-600 GLC

Class	150 - 600
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +593

Description
Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rising stem, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S76A

SICCA 900-2500 GLC

Class	900 - 2500
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +650

Description
Globe valve to ANSI/ASME with butt weld ends, Y-pattern, pressure seal design, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S82A

SICCA 150-4500 GLF

Class	150 - 4500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500/4500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S80A

Globe valves for nuclear applications

NUCA 320/-A 320/-ES, Types I, II, IV

PN	≤ 210
DN	10 - 50
T [°C]	≥ -29 - ≤ +365

Description
Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, replaceable seat (NUCA-ES), straight-way pattern, made of steel, stainless steel or nickel.

Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m, e, p

https://www.ksb.com/en-gb/lc/N71A

ZXNB

PN	≤ 210
DN	65 - 400
T [°C]	≥ -29 - ≤ +365

Description
Bellows-type globe valve with butt weld ends, for nuclear applications with safety-related requirements, in straight-way or angle pattern, or as a two-way valve, made of steel or stainless steel.
Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m, e, p — https://www.ksb.com/en-gb/lc/Z18A

ZXNVB

PN	≤ 210
DN	4 - 25
T [°C]	≥ -29 - ≤ +365

Description
Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, straight-way pattern, made of steel or stainless steel.
Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m — https://www.ksb.com/en-gb/lc/Z19A

ZYNB/ZYN

PN	≤ 50
DN	300 - 400
T [°C]	≥ -29 - ≤ +200

Description
Globe valve with butt weld ends, for nuclear applications with safety-related requirements, with gland packing or bellows, Y-valve, made of cast stainless steel.
Applications
Residual heat removal systems in nuclear applications.

e — https://www.ksb.com/en-gb/lc/Z18A

Control valves to DIN/EN

BOA-CVE C/CS/W/IMS/EKB/IMS EKB

PN	6/10/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB, BOA-Compact IMS EKB, BOA-Control IMS and BOA-Control IMS EKB, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight, Kvs values between 6.3 and 700 m^3/h and closing pressures of up to 16 bar. With intelligent microprocessor-controlled and pre-set electric actuators providing actuating forces from 1000 N to 14,000 N; electronic configuration of flow characteristic, Kvs value, actuating signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request.
Applications
Hot-water heating systems up to 120 °C. Ventilation and air-conditioning systems. Water supply systems, drinking water. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron. Other fluids on request.

e — https://www.ksb.com/en-gb/lc/B04A

BOA-CVE H

PN	16/25/40
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

Description
Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m^3/h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with electric actuator.

Applications
General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.

e

https://www.ksb.com/en-gb/lc/B26A

BOA-CVP H

PN	16/25/40
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

Description
Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m^3/h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with pneumatic actuator.

Applications
General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.

p

https://www.ksb.com/en-gb/lc/B72A

Control valves to ANSI/ASME

MIL 10000

Class	150 - 1500
NPS [inch]	¾ - 16
T [°C]	≥ -29 - ≤ +454

Description
The top- and bottom-guided double-ported control valve is characterised by a high permissible pressure drop across the valve. The high flow capacity typical of this design is attained with low pressure recovery. Bi-directional flow is permitted; wide flow passage, suitable for viscous fluids.

Applications
Industry, power stations, process engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M15A

MIL 21000

Class	150 - 2500
NPS [inch]	½ - 10
T [°C]	≥ -100 - ≤ +566

Description
Top-guided single-ported heavy post-guided control valve for a wide temperature range.

Applications
Industry, power stations, process engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M57A

MIL 27000

Class	150 - 300
NPS [inch]	½ - 2
T [°C]	≥ -27 - ≤ +427

Description
Compact and light-weight construction, rugged stem guiding, field-reversible actuator, tight shut-off.

Applications
The globe valve is used in industrial segments with moderate pressure drop for handling fluids with a low solids content, viscous fluids in refineries, and fluids in the petrochemical, pharmaceutical, chemical, and bio-medical industries where accurate monitoring and control of the valve position is critical as it affects product quality.

p

https://www.ksb.com/en-gb/lc/M31A

MIL 29000

Class	150 - 1500
NPS [inch]	½ - 1
T [°C]	≥ -100 - ≤ +343

Description
Compact microflow globe valves with high rangeability (500:1), quick-change trim for on-site adjustment of flow coefficient, rugged cage-style plug guide; anti- cavitation design available.
Applications
Industry, power stations, process engineering (e.g. fine control of spray water), chemical, petrochemical and pharmaceutical engineering.

p

https://www.ksb.com/en-gb/lc/M32A

MIL 41000

Class	150 - 4500
NPS [inch]	½ - 36
T [°C]	≥ -196 - ≤ +566

Description
Cage-guided single-ported heavy-duty control valves, high pressure drop capability; noise reduction and anti-cavitation solution available by replacing the standard cage.
Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M37A

MIL 50000

Class	150 - 2500
NPS [inch]	½ - 4
T [°C]	≥ -250 - ≤ -27

Description
Cryogenic control valves with extended body, rugged guided extended valve plug, body-bonnet bolting outside the cold box.
Applications
Used in LNG terminals, storage tanks during transport and storage, bench testing of cryogenic engines for rockets and space shuttles, LPG production and processing plants, etc.

e, h, p

https://www.ksb.com/en-gb/lc/M38A

MIL 70000

Class	150 - 2500
NPS [inch]	½ - 10
T [°C]	≥ -100 - ≤ +566

Description
Top-guided single-ported heavy-duty control valves in angle pattern.
Applications
Industry, power stations, process engineering, chemical and petrochemical engineering

e, h, p

https://www.ksb.com/en-gb/lc/M40A

MIL 71000

Class	150 - 4500
NPS [inch]	½ - 36
T [°C]	≥ -196 - ≤ +566

Description
Cage-guided single-ported high-performance angle valve.
Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M53A

MIL 76000

Class	150 - 2500
NPS [inch]	1 - 2
T [°C]	≥ -27 - ≤ +566

Description
The letdown control valves in angle pattern are designed for all applications where flashing (flash evaporation) or two-phase (liquid and gaseous) flows may occur; no body/trim erosion, vibration or noise. Due to its angle pattern, the globe valve is self-draining.

Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M54A

MIL 77000

Class	600 - 2500
NPS [inch]	2 - 8
T [°C]	≥ -27 - ≤ +566

Description
Multi-stage low-noise control valve with labyrinth trim.

Applications
Industry, power stations (e.g. start/bypass valve), process engineering, chemical and petrochemical engineering (e.g. control valve at hot high-pressure separators (HHPS)).

e, h, p

https://www.ksb.com/en-gb/lc/M60A

MIL 78000

Class	150 - 2500
NPS [inch]	½ - 6
T [°C]	≥ -29 - ≤ +260

Description
Multistage control valve in anti-cavitation design with wear-resistant multistage trim and detachable flow bush / spacer.

Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M64A

MIL 81000

Class	150 - 2500
NPS [inch]	¾ - 12
T [°C]	≥ -30 - ≤ +454

Description
Three-way combining and diverting control valves.

Applications
Building services, industry, power stations.

e, h, p

https://www.ksb.com/en-gb/lc/M65A

MIL 91000

Class	150 - 4500
NPS [inch]	¾ - 20
T [°C]	≥ -29 - ≤ +566

Description
Multistage multi-path control valve with Matrix trim; pressures of up to 420 bar can be reduced by up to 50 pressure reduction stages, preventing cavitation and greatly reducing fluid velocity.

Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

https://www.ksb.com/en-gb/lc/M76A

Automatic recirculation valves

MIL 90000

Class	150 - 2500
NPS [inch]	1 - 12
T [°C]	≥ -29 - ≤ +260

Description
The automatic recirculation valve (ARV) is a multifunctional valve whose primary function is to ensure a pre-determined minimum flow through the centrifugal pump at all times.
Applications
Power stations, refineries, petrochemical industry.

e, h, p — https://www.ksb.com/en-gb/lc/M74A

Balancing and shut-off valves to DIN/EN

BOA-Control/BOA-Control IMS

PN	16
DN	15 - 350
T [°C]	≥ -10 - ≤ +120

Description
BOA-Control IMS:
Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, permanent measurement set-up with BOATRONIC MS-420 measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB and BOA-Control IMS EKB; up to DN 200).
BOA-Control:
Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB; up to DN 200).
Applications
Hot-water heating systems up to 120 °C (BOA-Control and BOA-Control IMS), air-conditioning systems and cooling systems, and for permanent measurement set-ups (BOA-Control IMS), drinking water systems and industrial cooling circuits (EKB model). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated grey cast iron.

m, e — https://www.ksb.com/en-gb/lc/B05B

BOA-Control PIC

PN	16/25
DN	10 - 150
T [°C]	≥ -10 - ≤ +120

Description
Pressure-independent control valve, comprising a continuously adjustable flow controller and a control valve for hydraulic balancing and dynamic volume flow control at constant valve authority, with threaded ends (DN 10 - 50) or flanged ends (DN 65 - 150). Continuous adjustment of the volume flow rate setpoint directly at the valve thanks to the digital scale, with mechanical locking function. With measurement ports for determining flow rate, temperature and pressure loss. Available in various volume flow rate control ranges (LF/HF) from 43 to 8586 l/h (valve with threaded ends) and from 4.4 to 160 m^3/h (valve with flanged ends). With actuator mounting option (M 30 x 1.5) for the electrical control of an additional variable such as room temperature by adjusting the volume flow.
Applications
Heating, air-conditioning and refrigerating systems (e.g. central heating systems, underfloor heating, fan coil units and cooling ceiling systems), and industrial plants.

m, e — https://www.ksb.com/en-gb/lc/B75A

BOA-Control SBV

PN	25
DN	15- 50
T [°C]	≥ -10 - ≤ +120

Description
Maintenance-free balancing and measurement valve with female threaded ends, Y-pattern, continuous presetting, with position indicator readable from all angles (360°). Includes travel stop and 2 measurement ports with fixed measuring orifice (tolerance +/- 5 %) for measuring pressure, differential pressure and flow. Minimum space requirements thanks to non-rising handwheel and all functional parts being positioned on the same side as the handwheel.

Applications
Heating, air-conditioning and refrigerating systems, and industrial plants.

https://www.ksb.com/en-gb/lc/B79A

BOA-Control DPR

PN	16/25
DN	15 - 100
T [°C]	≥ -10 - ≤ +120

Description
Differential pressure control valve / proportional control valve for the constant control of an adjustable differential pressure setpoint without auxiliary energy, with threaded ends (DN 15 - 50) or flanged ends (DN 65 - 100). Setpoint can be adjusted continuously and read from the outside at any time. The valve closes automatically with rising pressure. Includes quick-measurement ports for measuring pressure loss. Available in various pressure control ranges (LP/HP) from 5 to 80 kPa (threaded ends) and from 80 to 160 kPa (flanged ends).

Applications
Heating, air-conditioning and refrigerating systems, and industrial plants.

https://www.ksb.com/en-gb/lc/B66A

Level control valves to DIN/EN

CONDA-VLC

PN	16
DN	25 - 300
T [°C]	≥ -10 - ≤ +70

Description
Float valve to DIN/EN for controlling maximum and minimum liquid levels in tanks, with flanged ends (DN 40-300) or threaded ends (DN 25-32), body made of nodular cast iron; valve disc, stem, float and seat made of stainless steel.

Applications
Water supply systems, industry and building services. For controlling water levels.

https://www.ksb.com/en-gb/lc/C52A

Pressure reducing valves to DIN/EN

CONDA-VRC

PN	16/25/40/63
DN	15 - 150
T [°C]	≥ -10 - ≤ +70

Description
Direct-acting pressure reducing valve to DIN/EN with flanged ends (DN 50-150) or threaded ends (DN 15-50), body made of nodular cast iron; valve disc, stem and seat made of stainless steel.

Applications
In water supply systems for controlling downstream pressure, in fire-fighting systems for reducing excess pressure caused by pumps, in irrigation systems, industry and building services as an efficient protection against water hammer.

https://www.ksb.com/en-gb/lc/C53A

Pressure sustaining valves to DIN/EN

CONDA-VSM

PN	16/25/40
DN	50 - 150
T [°C]	≥ -10 - ≤ +70

Description
Direct-acting pressure sustaining valve to DIN/EN with flanged ends, body made of nodular cast iron, valve disc, stem and seat made of stainless steel.

Applications
Controlling upstream pressure in water supply systems, irrigation systems or fire-fighting systems, in industry and building services.

https://www.ksb.com/en-gb/lc/C53A

Air valves to DIN/EN

BOAVENT-AVF

PN	16
DN	50 - 300
T [°C]	≥ -10 - ≤ +120

Description
Automatic air valve with two floats and three functions. Flanged ends, body made of nodular cast iron, double-chamber design with ABS floats. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.

Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B45A

BOAVENT-SIF

PN	16
DN	25 - 200
T [°C]	≥ -10 - ≤ +70

Description
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of stainless steel, single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.

Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B47A

BOAVENT-SVA

PN	16
DN	50 - 200
T [°C]	≥ -10 - ≤ +60

Description
Automatic air valve with one float and three functions. With flanged ends or threaded ends, body made of nodular cast iron, single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.

Applications
Water supply, waste water, untreated waste water.

https://www.ksb.com/en-gb/lc/B46A

BOAVENT-SVF

PN	16/25/40
DN	25 - 300
T [°C]	≥ -10 - ≤ +70

Description
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of nodular cast iron (PN 16-40) or carbon steel (PN 64), single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.

Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B47A

Vent valves for nuclear applications

SISTO-VentNA

PN	16
DN	15
T [°C]	≥ -20 - ≤ +100

Description
Soft-seated vent valve with butt weld ends, for nuclear applications

Applications
Heating systems, air-conditioning systems.

https://www.ksb.com/en-gb/lc/S53A

SISTO-KRVNA

PN	16
DN	25 - 100
T [°C]	≥ -20 - ≤ +100

Description
Vent valve with flanged or butt weld ends, for nuclear applications, soft-seated, with floating ball.

Applications
Tank venting, drainage systems.

https://www.ksb.com/en-gb/lc/S35A

Gate valves to DIN/EN

COBRA-SGP/SGO

PN	10/16
DN	40 - 600
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, elastomer-coated wedge, bolted bonnet, rotating stem, inside screw, body made of nodular cast iron.

Applications
Water supply systems, water treatment systems, air-conditioning systems.

m, e

https://www.ksb.com/en-gb/lc/C50A

COBRA-SMP

PN	16
DN	40 - 300
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, bolted bonnet, metal-seated, rotating stem, inside screw, body and flexible wedge made of nodular cast iron, stem and seats made of stainless steel.

Applications
Water supply systems, heating systems, air-conditioning systems, general industrial applications, building services.

m, e

https://www.ksb.com/en-gb/lc/C47A

ECOLINE SP

PN	10/16/25
DN	40 - 600
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, bolted bonnet, metal-seated, rotating stem, inside screw, body made of cast iron, seats made of brass.

Applications
Water supply systems, heating systems, air-conditioning systems, general industrial applications, water engineering, building services.

m, e

https://www.ksb.com/en-gb/lc/E71A

ECOLINE GT 40

PN	10 - 40
DN	50 - 600
T [°C]	≥ -10 - ≤ +400

Description
Gate valve to DIN/EN with flanged ends or butt weld ends, bolted bonnet, body made of cast steel, non-rotating stem, with flexible wedge, seat/disc interface made of wear and corrosion resistant 13 % chrome steel or Stellite.

Applications
Industrial plants, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e

https://www.ksb.com/en-gb/lc/EF2A

STAAL 40 AKD/AKDS

PN	10 - 40
DN	50 - 900
T [°C]	≥ -10 - ≤ +530

Description
Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e

https://www.ksb.com/en-gb/lc/S16A

STAAL 100 AKD/AKDS

PN	63 - 100
DN	50 - 600
T [°C]	≥ -10 - ≤ +530

Description
Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p

https://www.ksb.com/en-gb/lc/S32A

AKG-A/AKGS-A

PN	63 - 160
DN	65 - 300
T [°C]	≥ -10 - ≤ +550

Description
Gate valve to DIN/EN with flanged ends (AKG-A) or butt weld ends (AKGS-A), pressure seal design, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/A01A

ZTS

PN	≤ 600
Class	4500
DN	50 - 800
NPS [inch]	2 - 32
T [°C]	≥ -10 - ≤ +650

Description
Gate valve to DIN/EN or ANSI/ASME with butt weld ends, pressure seal design, billet-forged body, seat/disc interface made of wear and corrosion resistant Stellite, split wedge with flexibly mounted discs for precise alignment with the body seats.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p https://www.ksb.com/en-gb/lc/Z05A

Gate valves to ANSI/ASME

ECOLINE GTB 800

Class	150 - 800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +427

Description
Gate valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/E20A

ECOLINE GTC 150-600

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +649

Description
Gate valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, graphite gland packing, stainless steel/graphite gaskets.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e https://www.ksb.com/en-gb/lc/E59A

ECOLINE GTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Gate valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, non-rotating stem, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, reduced bore.

Applications
Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.

m, e https://www.ksb.com/en-gb/lc/EF6A

ECOLINE GTF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Gate valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.

Applications
Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/E61A

ECOLINE GTV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Gate valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, graphite gland packing, stainless steel / graphite gasket.

Applications
Fine chemicals, food industry, general industry; water, steam, gas and other fluids.

m, e

https://www.ksb.com/en-gb/lc/EE9B

SICCA 150-600 GTC

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +593

Description
Gate valve to ANSI/ASME with flanged or butt weld ends, with bolted bonnet, outside screw and yoke, flexible wedge, rising stem, non-rising handwheel, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S77A

SICCA 900-3600 GTC

Class	900 - 3600
NPS [inch]	2 - 32
T [°C]	≥ 0 - ≤ +650

Description
Gate valve to ANSI/ASME with butt weld ends, pressure seal design, split wedge, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S83A

SICCA 150-2500 GTF

Class	150 - 2500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500), solid wedge, outside screw and yoke, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S79A

Gate valves for nuclear applications

ZTN

PN	≤ 320
DN	80 - 700
T [°C]	≥ -29 - ≤ +365

Description
Gate valve with butt weld ends, for nuclear applications, with bolted or pressure seal bonnet, forged or welded body, non-rotating stem, in split-wedge or parallel-disc design, made of steel or stainless steel.

Applications
Reactor cooling, safety feed, feed water, live steam, cleaning and condensate systems.

m, e, p

https://www.ksb.com/en-gb/lc/Z14A

Body pressure relief valves

UGS

PN	≥ 40
DN	15

Description
Spring-loaded body pressure relief valve to DIN/EN, with or without bursting disc, for gate valves in pressure seal design.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/U18A

Knife gate valves to DIN/EN

HERA-BD

PN	10
DN	50 - 1200
T [°C]	≥ -10 - ≤ +120

Description
Knife gate valve to DIN/EN with wafer-type single-piece or two-piece body made of nodular cast iron, bi-directional, with gland packing, non-rising stem, corrosion-protected by epoxy coating.

Applications
Industrial plants, waste water engineering, process engineering and food industry. For water, waste water and solids-laden fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H62A

Knife gate valves to ANSI/ASME

HERA-BDS

Class	150
DN	50 - 600
T [°C]	≥ -10 - ≤ +120

Description
Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel; bi-directional, with gland packing, rubber-lined, rising stem, non-rising handwheel.
Applications
Primarily in mining for handling slurries, abrasive fluids and high-density fluids; also in pulp applications, cement plants, waste water treatment plants and the chemical industry. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H10A

HERA-BHT

Class	150
DN	80 - 600
T [°C]	≥ -10 - ≤ +100

Description
Knife gate valve to ANSI/ASME with semi-lug body made of carbon steel or stainless steel, bi-directional, with gland packing, through-going blade, rising stem, non-rising handwheel, robust yoke for actuator mounting as standard.
Applications
Primarily in mining for handling slurries and high-density fluids; excellent flow characteristic due to through-going blade; also in pulp applications and water applications. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H09A

HERA-SH

Class	150
DN	50 - 1000
T [°C]	≥ -10 - ≤ +180

Description
Knife gate valve to ANSI/ASME with full-lug single-piece body made of carbon steel or stainless steel; uni-directional, with gland packing, rising stem, non-rising handwheel.
Applications
Industrial plants and waste water engineering, pulp and paper industry, food and beverage industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/HB5A

Lift check valves to DIN/EN

BOA-RPL/RPL F-F

PN	10/16
DN	25 - 400
T [°C]	≥ -10 - ≤ +70

Description
Ball check valve to DIN/EN with flanged or female/female-threaded ends, made of nodular cast iron, NBR-coated ball, bolted cover, suitable for installation in vertical or horizontal pipes.
Applications
Water supply systems, water treatment systems, waste water.

https://www.ksb.com/en-gb/lc/B44A

BOA-RFV

PN	10/16/25/40/63
DN	40 - 600
T [°C]	≥ -10 - ≤ +90

Description
Nozzle check valve to DIN/EN with flanged ends, Venturi-type body, max. flow velocity 2.5 m/s. Body made of cast iron, check disc made of brass and cast iron, seat made of stainless steel. Suitable for installation in horizontal or vertical pipes. Rapid closure without surge pressures.

Applications
Water supply systems, heating systems, air-conditioning systems.

https://www.ksb.com/en-gb/lc/B43A

BOA-RVK

PN	6/10/16
DN	15 - 200
T [°C]	≥ -20 - ≤ +250

Description
Lift check valve to DIN/EN with wafer-type body, centring aided by the body shape, shut-off by spring-loaded plate or valve disc guided by three stainless steel guiding pins. Low-noise designs with plastic plate (DN 15 - 100) or valve disc with O-ring (DN 125 - 200), maintenance-free.

Applications
Industrial plants and heating systems, liquids and gases, hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. Any limits given in the technical codes must be complied with. Not suitable for fluids liable to attack the materials used. Other fluids on request.

https://www.ksb.com/en-gb/lc/B11A

BOA-R

PN	6/16
DN	15 - 350
T [°C]	≥ -10 - ≤ +350

Description
Lift check valve to DIN/EN with flanged ends, spring-loaded valve disc, maintenance-free.

Applications
Hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. General steam applications in building services and industry. Other fluids on request.

https://www.ksb.com/en-gb/lc/B10A

NORI 40 RXL/RXS

PN	25/40
DN	10 - 300
T [°C]	≥ -10 - ≤ +450

Description
Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/N00A

NORI 160 RXL/RXS

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/N10A

RGS

PN	250 - 500
DN	10 - 50
T [°C]	≥ -10 - ≤ +580

Description
Lift check valve to DIN/EN with butt weld or socket weld ends, Y-pattern, check disc with closing spring, pressure seal design, Hastelloy-faced body seats.
Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/R01A

BOACHEM-RXA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface.
Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/B37B

Lift check valves to ANSI/ASME

ECOLINE PTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Lift check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, spring-loaded valve disc.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E63A

ECOLINE PTF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover, spring-loaded valve disc, available in carbon steel and alloy steel.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E64A

SICCA 150-4500 PCF

Class	150 - 4500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW) or integral flange (Class 150 - 600), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 150 - 800) or welded cover (Class 1500/2500/4500), spring-loaded check disc, available in carbon steel, low-alloy steel and stainless steel.
Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S81A

Not available for worldwide sale Actuator/Automation

Lift check valves for nuclear applications

NUCA 320/-A 320/-ES Type V

PN	≤ 210
DN	10 - 50
T [°C]	≥ -29 - ≤ +365

Description
Lift check valve for nuclear applications, with butt weld ends, replaceable seat (NUCA-ES), straight-way pattern, made of steel or stainless steel.
Applications
Feed water and live steam systems.

https://www.ksb.com/en-gb/lc/N74A

RJN

PN	≤ 140
DN	80 - 600
T [°C]	≥ -29 - ≤ +300

Description
Damped lift check valve with butt weld ends, for nuclear applications, individually selectable damping characteristic, made of steel or stainless steel.
Applications
Feed water and live steam systems.

RYN

PN	≤ 210
DN	65 - 300
T [°C]	≥ -29 - ≤ +365

Description
Combined lift check/shut-off valve with butt weld ends, for nuclear applications, Y-pattern, with gland packing or bellows, made of steel or stainless steel.
Applications
Feed water and live steam systems.

https://www.ksb.com/en-gb/lc/R67A

Swing check valves to DIN/EN

ECOLINE WT/WTI

PN	16
DN	50 - 300
T [°C]	≥ -10 - ≤ +110

Description
Swing check valve to DIN/EN with wafer-type body; body and valve disc made of carbon steel (WT) or stainless steel (WTI), O-ring made of Viton.
Applications
Irrigation systems, district heating, domestic water supply, waste water treatment plants, air-conditioning systems, cooling circuits, water supply systems.

https://www.ksb.com/en-gb/lc/E80A

STAAL 40 AKK/AKKS

PN	10 - 40
DN	80 - 400
T [°C]	≥ -10 - ≤ +450

Description
Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/S34A

STAAL 100 AKK/AKKS

PN	63 - 100
DN	80 - 400
T [°C]	≥ -10 - ≤ +530

Description
Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of forged or welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/S36A

AKR/AKRS

PN	63 - 160
DN	80 - 300
T [°C]	≥ -10 - ≤ +550

Description
Swing check valve to DIN/EN with flanged ends (AKR) or butt weld ends (AKRS), pressure seal design, internally mounted hinge pin, body of forged and welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/A03A

ZRS

PN	≤ 600
DN	50 - 800
T [°C]	≥ -10 - ≤ +650

Description
Swing check valve to DIN/EN with butt weld ends, pressure seal design, internally mounted hinge pin, billet-forged body; seat/disc interface made of wear and corrosion resistant Stellite.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

https://www.ksb.com/en-gb/lc/Z01A

SISTO-RSK/RSKS

PN	16
DN	25 - 300
T [°C]	≥ -20 - ≤ +140

Description
Swing check valve to DIN/EN with flanged ends, body with or without lining, soft-seated, no dead volumes, straight-way pattern, full bore, slanted seat, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure.

Applications
Building services, industry and power stations; suitable for drinking water, service water, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

https://www.ksb.com/en-gb/lc/S65A

SERIE 2000

PN	16/25
Class	150/300
DN	50 - 600
T [°C]	≥ -196 - ≤ +538

Description
Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel or stainless steel; metal/elastomer-seated or metal/metal-seated, maintenance-free, connections to EN, ASME or JIS.

Applications
Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas. Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons.

https://www.ksb.com/en-gb/lc/S51A

Swing check valves to ANSI/ASME

ECOLINE SCC 150-600

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +816

Description
Swing check valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted cover, internally mounted hinge pin (2"-12"), stainless steel/graphite gaskets.

Applications
Refineries, power stations, process engineering and general industry; water, steam, oil, gas. Other fluids on request.

https://www.ksb.com/en-gb/lc/E68A

ECOLINE SCF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Swing check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, internally mounted hinge pin.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/EF7A

ECOLINE SCF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Swing check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), internally mounted hinge pin, available in carbon steel and alloy steel.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E70A

ECOLINE SCV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Swing check valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted cover and stainless steel / graphite gasket.

Applications
Fine chemicals, food industry and general industry. For water, steam, gas and other fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/EF4B

SICCA 150-600 SCC

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +593

Description
Swing check valve to ANSI/ASME with flanged or butt weld ends, with bolted cover, internally bracket-mounted hinge pin (up to NPS 12) and body-mounted hinge pin (NPS > 12). Bigger nominal sizes with anti-slam/dash pot arrangement (optional), graphite gaskets. Stellite hard-faced seat/disc interface made of 13 % chrome steel. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S78A

SICCA 900-3600 SCC

Class	900 - 3600
NPS [inch]	2 - 28
T [°C]	≥ 0 - ≤ +650

Description
Gate valve to ANSI/ASME with butt weld ends or flanged ends (on request), pressure seal design, split wedge, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S84A

Swing check valves for nuclear applications

SISTO-RSKNA

PN	16
DN	25 - 300
T [°C]	≥ -20 - ≤ +100

Description
Swing check valve with flanged ends, body with or without lining, soft-seated, no dead volumes, straight-way pattern, full bore, slanted seat, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure.

Applications
Waste water systems, pump systems.

https://www.ksb.com/en-gb/lc/S52A

ZRN

PN	≤ 210
DN	80 - 700
T [°C]	≥ -29 - ≤ +365

Description
Swing check valve for nuclear applications, with butt weld ends, with bolted cover, internally mounted hinge pin, forged body made of steel or stainless steel.

Applications
Safety feed, feed water, live steam and condensate systems.

https://www.ksb.com/en-gb/lc/Z13A

Tilting disc check valves to DIN/EN

COBRA-TDC01/03

PN	10/16/25/40
DN	150 - 1400
T [°C]	≥ -10 - ≤ +80

Description
Tilting disc check valve to DIN/EN with flanged ends, with lever and counterweight/hydraulic damper, body and valve disc made of nodular cast iron, body seats made of stainless steel.
Applications
Water supply systems

https://www.ksb.com/en-gb/lc/C51A

Strainers to DIN/EN

BOA-S

PN	6/16/25
DN	15 - 400
T [°C]	≥ -10 - ≤ +350

Description
Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal sizes with drain plug in the cover. Made of grey cast iron or nodular cast iron.
Applications
Hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. General steam applications in building services and industry. Other fluids on request.

https://www.ksb.com/en-gb/lc/B09A

NORI 40 FSL/FSS

PN	25/40
DN	15 - 300
T [°C]	≥ -10 - ≤ +450

Description
Strainer to DIN/EN with flanged ends (FSL) or butt weld ends (FSS), made of cast steel, with standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic insert.
Applications
Heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/N33A

BOACHEM-FSA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Strainer to DIN/EN with flanged ends, body made of stainless steel, with standard or fine screen; all nominal sizes with drain plug in the cover.
Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/B36B

Strainers to ANSI/ASME

ECOLINE FYC 150-600

Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +816

Description
Strainer to ANSI/ASME with flanged ends, Y-pattern, bolted cover, cast steel A216 WCB, screen made of stainless steel 304, mesh width 1.5 mm.
Applications
Refineries, power stations, process engineering and general industry; water, steam, oil, gas. Other fluids on request.

https://www.ksb.com/en-gb/lc/E53A

ECOLINE FYF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Strainer to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), Y-pattern, with bolted cover, forged steel A105, screen made of stainless steel 304. Mesh width 0.8 to 0.9 mm.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/EG1A

Centred-disc butterfly valves

BOAX-CBV13

PN	10/16
DN	50 - 1200
T [°C]	≥ -10 - ≤ +70

Description
Centred-disc butterfly valve with epoxy coating. Perfect shut-off in either flow direction. Flanged ends to EN standards, body made of nodular cast iron, valve disc made of stainless steel.
Applications
Shut-off or control duties, drinking water, seawater, water supply systems, water treatment systems and water distribution systems, waste water, irrigation, ultra-pure water, air, oil.

m, e, p

https://www.ksb.com/en-gb/lc/B49A

BOAX-S/SF

PN	6/10/16
DN	20 - 600
T [°C]	≥ -10 - ≤ +130

Description
Centred-disc butterfly valve, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with lever, manual gearbox or electric actuator (BOAXMAT-S and BOAXMAT-SF); semi-lug body (T2) or full-lug body (T4) for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.
Applications
Building services, heating, ventilation, air-conditioning systems, for drinking water.

m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/B12A

BOAX-B

PN	10/16
DN	40 - 1000
T [°C]	≥ -10 - ≤ +110

Description
Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC / XU or Nitrile K), with lever, manual gearbox, pneumatic or electric actuator; semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service. Valve disc made of nodular cast iron or stainless steel. Connections to EN.

Applications
Engineering contractors. General water circuits, fuel oil, oil. Shut-off and control duties in water management, water supply and water treatment, drainage and irrigation.

m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/B16A

ISORIA 10/16

PN	10/16
DN	40 - 1000
T [°C]	≥ -10 - ≤ +200

Description
Centred-disc butterfly valve, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Wafer-type body (T1), semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications
Shut-off and control duties in all industrial and energy sectors.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/I00A

ISORIA 20/25

PN	20/25
DN	32 - 1000
T [°C]	≥ -10 - ≤ +200

Description
Centred-disc butterfly valve, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2, T4 and T5 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications
Shut-off and control duties in all industrial and energy sectors.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/I02A

ISORIA 20 UL

PN	16
DN	40 - 700
T [°C]	≥ -10 - ≤ +200

Description
Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox; semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME or JIS. Underwriter Laboratories (UL) approved.

Applications
Fire protection

m

MAMMOUTH

PN	6/10/16/20/25
DN	1050 - 4000
T [°C]	≥ 0 - ≤ +80

Description
Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox, electric, hydraulic or counterweight actuator, U-section body with flat faces (T5), connections to EN, ASME or JIS.

Applications
Water supply, water treatment, irrigation, drainage, desalination (reverse osmosis, multi-stage flash), industry. Cooling circuits and fire protection. Shipbuilding, steel industry and power stations (hydraulic, thermal, nuclear). Shut-off and control duties in all industrial sectors.

m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/M01A

KE

PN	10
DN	40 - 600
T [°C]	≥ -20 - ≤ +200

Description
Centred-disc butterfly valve with PFA liner. With lever, manual gearbox, pneumatic or electric actuator. With wafer-type body (T1), full-lug body (T4) or U-section body with raised faces (T6). EN, ASME, JIS connections possible.

Applications
In the chemical industry, highly corrosive fluids: toxic and highly corrosive fluids which cannot be handled by metals or elastomers, thus requiring the sole use of PFA. Moderately corrosive and aggressive fluids allowing the use of a PFA liner with a stainless steel valve disc. Fluids requiring absolutely safe handling.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC https://www.ksb.com/en-gb/lc/K02A

Double-offset butterfly valves

APORIS-DEB02

PN	10/16/25/40
DN	100 - 2200
T [°C]	≥ -10 - ≤ +80

Description
Double-offset butterfly valve with epoxy coating. Perfect shut-off in either flow direction. Flanged ends to EN standards, body and valve disc made of nodular cast iron.

Applications
Shut-off or control duties; drinking water, seawater, air, water engineering.

m, e, p https://www.ksb.com/en-gb/lc/A80A

DANAÏS 150

PN	≤ 25
Class	150
DN	50 - 1200
T [°C]	≥ -50 - ≤ +260

Description
Double-offset butterfly valve, with plastomer seat (also in fire-safe design), metal seat or elastomer seat (FKM [VITON R] or NBR [nitrile]). Lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of nodular cast iron, cast steel, stainless steel or duplex stainless steel (254 SMO). Wafer-type body (T1), full-lug body (T4), T4 suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME or JIS. Fire-safe design tested and certified to API 607. Fugitive emissions performance tested and certified to EN ISO 15848-1. ATEX-compliant version in accordance with Directive 2014/34/EU.

Applications
Petroleum, gas, chemical and petrochemical industry, marine applications, transport of petroleum products and chemicals, sugar industry, geothermal energy, shipbuilding, low-pressure steam, vacuum service, mining, corrosive fluids, cleaning agents, highly aggressive fluids, brine, paper and pulp industry, fertilisers. All applications requiring offset-disc butterfly valves.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC https://www.ksb.com/en-gb/lc/D01A

DANAÏS MTII

PN	25/50
Class	150/300
DN	50 - 1200
T [°C]	≥ -50 - ≤ +260

Description
Double-offset butterfly valve with plastomer seat or metal seat (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator, body made of steel or stainless steel. Wafer-type body (T1), full-lug body (T4) or flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Certified to German TA Luft Technical Guidelines on Air Quality Control.

Applications
Petroleum, gas, chemical and petrochemical industry, nuclear power stations, onshore and offshore plants; steam, vacuum and all applications requiring offset-disc butterfly valves; industrial gases (air separation units, GOX and LOX)

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC https://www.ksb.com/en-gb/lc/D02A

DANAÏS CRYO

PN	10/20
Class	150
DN	80 - 1200
T [°C]	≥ -196 - ≤ +200

Description
Double-offset butterfly valve for cryogenic applications; body with flanged ends (T7) with raised faces, or body with butt weld ends made of stainless steel to ASME Class 150, JIS, fire-safe design.

Applications
Liquefied natural gas (LNG) in LNG terminals and LNG tank farms, for marine transport. Supply of liquefied natural gas, hydrogen or ammonia.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/D40A

DANAÏS CRYO AIR

PN	10/16
Class	150
DN	50 - 600
T [°C]	≥ -250 - ≤ +200

Description
Double-offset butterfly valve for cryogenic applications, wafer-type body (T1), full-lug body (T4).

Applications
Liquefied natural gas (LNG) in LNG terminals and LNG tank farms, for marine transport. Supply of liquefied natural gas, hydrogen or ammonia.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/D16A

Triple-offset butterfly valves

TRIODIS 150

PN	≤ 20
Class	150
DN	50 - 1200
T [°C]	≥ -196 - ≤ +450

Description
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 10S, 10, STD and XS to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

Applications
Natural gas liquefaction. All liquefied gases. Heat transfer fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/T09A

TRIODIS 300

PN	≤ 50
Class	300
DN	80 - 1200
T [°C]	≥ -196 - ≤ +450

Description
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 40S and STD to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

Applications
Natural gas liquefaction. All liquefied gases. Heat transfer fluids, aggressive fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

m, p + AMTROBOX/AMTRONIC/SMARTRONIC

https://www.ksb.com/en-gb/lc/T11A

TRIODIS 600

PN	≤ 100
Class	600
DN	150 - 1000
T [°C]	≥ -196 - ≤ +450

Description
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to BS 6775-2. ATEX-compliant in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

Applications
Natural gas liquefaction. All liquefied gases. Heat transfer fluids, aggressive fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

m, p + AMTROBOX/AMTRONIC/SMARTRONIC https://www.ksb.com/en-gb/lc/T12A

Butterfly valves for nuclear applications

CLOSSIA

PN	≤ 5,5
DN	250/500/750/1000
T [°C]	≥ -20 - ≤ +170

Description
Double-offset butterfly valve, metal-seated, maintenance-free. Steel body with one flanged and one weld end connection. With safety actuator with manual, pneumatic or electric actuation.

Applications
In the containment of nuclear power stations.

m, e, p https://www.ksb.com/en-gb/lc/C71A

Combined butterfly/check valve

DUALIS

DN	500 - 1400
T [°C]	≥ -10 - ≤ +65

Description
Combined butterfly/check valve with single-acting hydraulically controlled counterweight actuator. For mounting on valves with DN 500 to 1400.

Applications
For installation in the pump discharge lines of pumping stations. Power station cooling circuits. Protects pipelines and turbines.

https://www.ksb.com/en-gb/lc/D03A

Single-piece ball valves

MP-CI/MP-II

PN	16
DN	15 - 150
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to DIN/EN with wafer-type body made of Kanigen-treated carbon steel (MP/CI) or stainless steel (MP/II), stainless steel ball, PTFE/graphite seat.

Applications
Irrigation and fire-fighting systems, domestic water supply, air-conditioning systems, cooling circuits, water supply systems.

m, p + AMTROBOX/AMTRONIC https://www.ksb.com/en-gb/lc/M77A

Not available for worldwide sale Actuator/Automation

PROFIN VT1

PN	40
DN	8 - 50
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with threaded ends (BSP), single-piece body, reduced bore, solid ball, blowout-proof shaft, body made of stainless steel.
Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry, process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning applications. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P03A

Two-piece ball valves

ECOLINE BLT 150-300

Class	150 / 300
DN	15 - 300
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to ANSI/ASME with flanged ends, two-piece body, full bore, floating ball, plastomer sealing (also in fire-safe design).
Applications
General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.

m, e, p

https://www.ksb.com/en-gb/lc/E48A

PROFIN VT2L

PN	40
DN	8 - 80
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with threaded ends (BSP), two-piece body, full bore, solid ball, anti-static design, blowout-proof shaft, body made of stainless steel.
Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry, process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning applications. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P12A

Three-piece ball valves

ECOLINE BLC 1000

Class	1000 WOG
DN	8 - 100
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to ANSI/ASME with threaded ends (NPT), butt weld or socket weld ends, three-piece body, full bore, floating ball. Plastomer sealing (also in fire-safe design).
Applications
General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.

m, p

https://www.ksb.com/en-gb/lc/E47A

PROFIN SI3

PN	16/40
DN	15 - 100
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with flanged ends, threaded ends (BSP) or long butt weld ends, three-piece body, full bore, solid ball, top flange to ISO 5211, anti-static design, blowout-proof shaft, spring-loaded shaft seal, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m, p

https://www.ksb.com/en-gb/lc/P14A

PROFIN VT3

PN	40
DN	8 - 100
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with flanged ends, threaded ends (BSP) or long butt weld ends, three-piece body, full bore, solid ball, blowout-proof shaft, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P13A

Soft-seated diaphragm valves to DIN/EN

SISTO-KB

PN	10
DN	15 - 200
T [°C]	≥ -20 - ≤ +140

Description
Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by diaphragm; hydraulically favourable body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

m, e, p

https://www.ksb.com/en-gb/lc/S47A

SISTO-16

PN	16
DN	15 - 300
T [°C]	≥ -10 - ≤ +160

Description
Diaphragm valve to DIN/EN with flanged ends or threaded sockets; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p

https://www.ksb.com/en-gb/lc/S40A

SISTO-16S

PN	16
DN	15 - 200
T [°C]	≥ -20 - ≤ +160

Description
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p https://www.ksb.com/en-gb/lc/S42A

SISTO-16RGAMaXX

PN	16
DN	15 - 80
T [°C]	≥ -10 - ≤ +90

Description
Diaphragm valve to DIN/EN with threaded sockets, made of stainless steel (1.4409), for drinking water installations to DIN 1988 in building services, DIN-DVGW-approved for water acc. to test W 270, in compliance with the latest elastomers guideline of the German Environment Agency and with KTW recommendations (use of elastomers in drinking water applications); shut-off and sealing to atmosphere by confined and spiral-supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Drinking water, particularly drinking water installations to DIN 1988, seawater, all service water qualities.

m https://www.ksb.com/en-gb/lc/S41A

SISTO-16TWA

PN	16
DN	15 - 200
T [°C]	≥ -10 - ≤ +140

Description
Diaphragm valve to DIN/EN with flanged ends, for drinking water installations to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with the latest elastomers guideline of the German Environment Agency; shut-off and sealing to atmosphere by confined and spiral-supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
SISTO-16TWA (drinking water up to 90 °C): drinking water, particularly drinking water installations to DIN 1988, water containing chlorine, seawater, etc. SISTO-16HWA (hot water up to 140 °C): all service water qualities. SISTO-16 DLU (compressed air up to 90 °C): compressed air with oil content, oils and technical gases

m, e, p https://www.ksb.com/en-gb/lc/S43A

SISTO-20

PN	16
DN	15 - 300
T [°C]	≥ -20 - ≤ +160

Description
Diaphragm valve to DIN/EN with flanged ends, threaded sockets or socket weld ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p https://www.ksb.com/en-gb/lc/S44A

SISTO-C

PN	16
DN	6 - 200
T [°C]	≥ -20 - ≤ +160

Description
Diaphragm valve with butt weld ends or clamps; straight-way, Y or T pattern, or as a multi-port valve; shut-off and sealing to atmosphere by completely enclosed diaphragm. No dead volumes, suitable for sterilisation, SIP/CIP-compliant design, position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.

m, p https://www.ksb.com/en-gb/lc/S46A

Diaphragm valves for nuclear applications

SISTO-20NA

PN	20
DN	8 - 150
T [°C]	≥ -20 - ≤ +100

Description
Diaphragm valve with butt weld ends, for nuclear applications, shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.

m, e, p

https://www.ksb.com/en-gb/lc/S49A

SISTO-DrainNA

PN	16
DN	15 - 25
T [°C]	≥ -20 - ≤ +100

Description
Diaphragm valve with butt weld ends, for nuclear applications; shut-off and sealing to atmosphere by completely enclosed diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Heating systems, air-conditioning systems, auxiliary systems.

m

https://www.ksb.com/en-gb/lc/S33A

Feed water bypass valves

ZJSVM/RJSVM

PN	≤ 600
DN	100 - 800
T [°C]	≥ -10 - ≤ +450

Description
Feed water bypass valve to DIN/EN with butt weld ends, pressure seal design, billet-forged body, Z or T pattern, seat/disc interface made of wear and corrosion resistant Stellite, controlled by process fluid.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e, p

https://www.ksb.com/en-gb/lc/Z08A

Expansion and anti-vibration joints

ECOLINE GE1/GE2/GE3

PN	16
DN	15 - 300
T [°C]	≥ -10 - ≤ +105

Description
Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel.

Applications
Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

https://www.ksb.com/en-gb/lc/E55A

ECOLINE GE4

PN	16
DN	20 - 200
T [°C]	≥ -10 - ≤ +100

Description
Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.

Applications
Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

https://www.ksb.com/en-gb/lc/E55A

Levers

CR/CM

T [°C] ≥ -20 - ≤ +80

Description
Lever made of cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions). CM type series: same as CR, with special coating.

Applications
Building services, water engineering, energy engineering and industry.

S/SR/SP

T [°C] ≥ -20 - ≤ +80

Description
Lever made of light metal alloy; S type series: locks in limit positions (open and closed), SR type series: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), SP type series: locks in any position.

Applications
Water engineering, energy engineering and industry

Manual gearboxes

MN

Output torque [Nm] ≤ 250
Enclosure IP67
T [°C] ≥ -20 - ≤ +80

Description
Manual actuator for operating quarter-turn valves. MN range manual gearbox, irreversible worm gear, handwheel-operated.

Applications
Building services, general industrial applications, water and industrial processes in non-corrosive and non-saline environments.

https://www.ksb.com/en-gb/lc/M26A

MR

Output torque [Nm] ≤ 16000
Enclosure IP67/IP68
T [°C] ≥ -20 - ≤ +80

Description
Heavy-duty manual actuator for operating quarter-turn valves. MR range manual gearbox, irreversible worm gear or patented AMRI yoke kinematics. Handwheel-operated as standard. Models MR 400 to 1600 can be fitted with actuators. Options include alternative operating mechanisms, limit switch box, low-temperature version, etc.

Applications
Building services, industry and process engineering, water management, waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.

AMTROBOX

https://www.ksb.com/en-gb/lc/M26A

Electric actuators

ACTELEC - BERNARD CONTROLS

Quarter-turn actuator	AQ1L - SQ120
Multi-turn actuator	31 - 800
Enclosure	IP67
Output torque [Nm]	≤ 8000
T [°C]	≥ -20 - ≤ +80

Description
Electric actuators by BERNARD CONTROLS for direct mounting on quarter-turn valves (actuator flange to ISO 5211) with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/A35A

ACTELEC - AUMA

Quarter-turn actuator	SQ 05.2 - SQ 12
Multi-turn actuator	31 - 1600
Enclosure	IP67
Output torque [Nm]	≤ 16000

Description
Electric actuators by AUMA for direct mounting on quarter-turn valves (actuator flange to ISO 5211) with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/A35A

SISTO-LAE

Type	AUMA
Multi-turn actuator	
Enclosure	IP67
Output torque [Nm]	≤ 250

Description
Multi-turn actuators for valves with rising stem, max. closing force 60,000 N, configurable as a function of flow characteristics and valve travel; open/closed-position feedback; factory-mounted.

Applications
Building services, industry, power stations, food industry, chemical industry.

https://www.ksb.com/en-gb/lc/S62A

Hydraulic actuators

HQ

Output torque [Nm]	≤ 55000
Enclosure	IP68
T [°C]	≥ -45 - ≤ +100

Description
Single-acting or double-acting hydraulic actuator (gas cartridge or spring) for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 160 bar. Mounts on valves with square or flat shaft end. Force transmission via rack-and-pinion or scotch-yoke kinematics provides output torques of up to 55,000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Optional manual override. Can be equipped with a hydraulic power unit: for shut-off, as a safety block, ESD block, as a bypass device enabling manual override. Can be combined with all limit switch boxes of the AMTROBOX/AMTROBOX R type series.

Applications
Marine

AMTROBOX

https://www.ksb.com/en-gb/lc/H15A

Pneumatic actuators

ACTAIR NG

Output torque [Nm]	≤ 8000
at a control pressure of 6 bar	
Enclosure	IP68
T [°C]	≥ -50 - ≤ +150

Description
Double-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valves with square or flat shaft end. Force transmission via scotch-yoke kinematics provides output torques of up to 8000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.

Applications
Water engineering, energy engineering and industry

AMTROBOX, AMTRONIC, SMARTRONIC

https://www.ksb.com/en-gb/lc/A59B

DYNACTAIR NG

Output torque [Nm]	≤ 4000
at a control pressure of 6 bar	
Enclosure	IP68
T [°C]	≥ -50 - ≤ +150

Description
Single-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valves with square or flat shaft end. Force transmission via scotch-yoke kinematics provides output torques of up to 4000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position in case of control air failure is effected by means of spring assemblies. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for closed position or open/closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.

Applications
Water engineering, energy engineering and industry

AMTROBOX, AMTRONIC, SMARTRONIC

https://www.ksb.com/en-gb/lc/D09B

SISTO-LAD

Control air pressure [bar]	≤ 6
Closing force [N]	≤ 20000

Description
Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.

Applications
Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

https://www.ksb.com/en-gb/lc/S64A

SISTO-LAP

Control air pressure [bar]	5,5 - 10
Closing force [N]	≤ 250000

Description
Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Actuator flange to DIN/ISO 5210. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.

Applications
Building services, industry, power stations, food and beverage industries, and chemical industry. The pneumatic actuators can be used in potentially explosive atmospheres.

https://www.ksb.com/en-gb/lc/S63A

SISTO-C LAP

Control air pressure [bar]	5,5 - 7
Closing force [N]	≤ 20000

Description
Piston actuator made of high-grade stainless steel for use on diaphragm valves. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.

Applications
Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.

MIL 37-38

Permissible pressure [psi]	65
Stroke [inch]	≤ 4
NPS	11 - 24

Description
MIL 37 (fail-safe position: spring-to-close) and MIL 38 (fail-safe position: spring-to-open) are pneumatic single-spring diaphragm actuators for linear valves.

Applications
Ideally suited for all KSB MIL control valves with travels ranging from 0.125 to 4 inches; shut-off and control duties in industry, power stations, process engineering, chemical and petrochemical engineering.

https://www.ksb.com/en-gb/lc/M79A

MIL 67-68

Permissible pressure [psi]	100
Stroke [inch]	< 12
NPS	6 - 24

Description
High-power high-performance double-acting piston actuator suitable for high supply air pressures (up to 100 psi; system air, natural gas or other non-corrosive gaseous fluids can be used).

Applications
Ideally suited for all KSB MIL control valves requiring greater power or stroke. Shut-off and control duties in industry, power stations, process engineering, chemical and petrochemical engineering.

https://www.ksb.com/en-gb/lc/M80A

Actuator accessories

RMD

Enclosure	IP65
T [°C]	≥ -20 - ≤ +80

Description
Manual override using a declutchable gear operator with handwheel for mounting on ACTAIR NG double-acting pneumatic actuators, DYNACTAIR NG single-acting pneumatic actuators and HQ single-acting or double-acting hydraulic actuators. The manual override is fitted between the valve and the actuator. The manual override has priority over the pneumatic or hydraulic actuator and is locked either in clutched or declutched position using the locking device.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/R39A

Monitoring

AMTROBOX

Enclosure	IP67/IP68
T [°C]	≥ -20 - ≤ +80

Description
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX (R1149) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators and HQ hydraulic actuators.

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX EEx ia

Enclosure	IP67
T [°C]	≥ -10 - ≤ +50

Description
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX EEx ia (R1172): intrinsically safe version for potentially explosive atmospheres.

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX ATEX Zone 22

Enclosure	IP67
T [°C]	≥ -10 - ≤ +60

Description
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX ATEX (X1140, X1149): ATEX-compliant version for potentially explosive dust atmospheres (Zone 22).

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX F

Enclosure	IP67
T [°C]	≥ -25 - ≤ +70

Description
Limit switch box for mounting on levers and manual actuators with ISO 5211 interface for open/closed position signalling via proximity sensors. Mounts on lever type series S or C or on manual actuator type series MN or MR. Thanks to its particularly low height (< 5 mm), it can be mounted between any valve and actuator with ISO 5211 interface.

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX M

Enclosure	IP65
T [°C]	≥ -20 - ≤ +80

Description
Limit switch box specially designed for manual actuation. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX M mounts on the S series of quarter-turn levers (R1020) and manual gearbox types MA 12 and MA 25 (R1021).

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A46A

AMTROBOX R

Enclosure	IP68
T [°C]	≥ -45 - ≤ +80

Description
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R (R1187) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators, HQ hydraulic actuators and any actuators with VDI/VDE interface.

Applications
Water engineering, energy engineering, offshore plants and heavy industry

https://www.ksb.com/en-gb/lc/A47A

AMTROBOX R EEx ia

Enclosure	IP68
T [°C]	≥ -25 - ≤ +80

Description
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R EEx ia (R1188): intrinsically safe version for potentially explosive atmospheres (Zones 0 + 21).

Applications
Water engineering, energy engineering, offshore plants and heavy industry

https://www.ksb.com/en-gb/lc/A47A

ON/OFF valve controllers

AMTRONIC

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -20 - ≤ +80

Description
On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. AMTRONIC can be connected to Profibus DP or AS-i field buses. AMTRONIC has been specially developed to reduce control unit cabling. Connection via field bus enables both power supply and control information exchange with the process control system.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/A63A

AMTRONIC Ex ia

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -10 - ≤ +50

Description
On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. The intrinsically safe AMTRONIC Ex ia can be operated in potentially explosive atmospheres. It complies with Directive 2014/34/EU and is marked in accordance with CE 0081 Ex II 1 G. Type of protection Ex ia IIC T6 Ga in accordance with EN 60079-0 and EN 60079-11.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/A63A

Positioners

SMARTRONIC MA

Enclosure	IP67
Control air pressure [bar]	2 - 7
T [°C]	≥ -20 - ≤ +80

Description
SMARTRONIC MA (R1310) is an electro-pneumatic digital positioner powered via the 4-20 mA signal. Mounts on ACTAIR NG/DYNACTAIR NG actuators with direct compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface. SMARTRONIC MA reduces investment, commissioning and operating costs as the unit consumes no air while idle.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/S05A

SMARTRONIC AS-i

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -20 - ≤ +80

Description
Electro-pneumatic digital positioner for connection to an AS-i field bus. Certified by AS International. Mounts on ACTAIR NG/DYNACTAIR NG actuators with direct compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/S03A

Intelligent positioners

SMARTRONIC PC

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -20 - ≤ +80

Description
SMARTRONIC PC (R1312) is an intelligent, compact and innovative positioner. The integrated control offered by this multi-functional control unit represents the latest in open-loop and closed-loop control technology for valves. The unit attaches directly to ACTAIR NG and DYNACTAIR NG actuators with no need for a bracket or external piping, providing a rugged, compact overall solution. SMARTRONIC PC offers four functions: programmable characteristic curves for valve opening and closing, intelligent positioning, process monitoring and control. SMARTRONIC PC is PC programmable and can be connected to a Profibus DP field bus.

Applications
Water engineering, energy engineering and industry

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