

➤ Our technology. Your success.

Pumps · Valves · Service



Product Portfolio 2020

Valves | Actuators | Automation



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Our tradition:

Competence since 1871

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

Partners achieve more together.

We do everything possible to ensure that our customers

always have access to the ideal product and system solution.

KSB is a loyal partner:

- Over 147 years' experience
- Present in more than 100 countries
- More than 15,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists





Smart services for maximum availability and efficiency

As a leading supplier of pumps and valves, we attach great importance to providing you with a comprehensive service of the highest quality. In fact, we believe it's so important that we even gave it a special name: KSB SupremeServ.

KSB SupremeServ is on hand to support you with classic and digital service and spare parts solutions over the entire product life cycle. Whether it's a KSB product, non-KSB product or other rotating equipment, you'll benefit from the reliable and sustainable operation of your system.

Applications:

- Water and Waste Water
- Energy
- Mining
- Industry
- Building Services

Wherever and whenever you need us, we're there for you – worldwide.

www.ksb.com

KSB SupremeServ



Our mission:

Certified quality assurance

First-class products and excellent service take top priority at KSB. To maintain this level of excellence, we have developed a modern quality management system with globally applicable guidelines. It is based on the Business Excellence model of the European Foundation for Quality Management, which already ensures improved quality management Europewide.

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

Our five key goals:

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



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





Industry 4.0: we have experience with the future

Digital networking of production systems is one of the key challenges ahead. An expert in engineering with long-standing experience in developing Industry 4.0 solutions, KSB is your ideal partner to achieve:

- Resource efficiency and optimised use of materials
- Availability and operating reliability
- Flexibility through short-term reconfigurability
- Reduction of time to market

Increase your system's productivity already today with KSB's smart products and services: Use our intelligent technologies designed to communicate, such as PumpDrive and PumpMeter, to lay a foundation for your smart factory. Find out more about our future-driven solutions at www.ksb.com/industry40

► Our technology. Your success.

Pumps • Valves • Service

ksb

KSB Trademarks

Apart from the KSB umbrella brand, the following brand names identify quality products and services by the KSB Group:



Butterfly valves

Under the AMRI brand, KSB sells its butterfly valves. They are used in building services, industry, water engineering and power generation applications. AMRI products include pneumatic, hydraulic and electric valve actuators as well as control systems.



Diaphragm valves

Under the SISTO brand, KSB sells its diaphragm valves. They perform shut-off duties in building services, industrial, water management and power generation applications. Under this brand name, KSB offers special valves for sterile processes including biotech applications.



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 25 the symbol  in conjunction with the relevant letter indicates the actuator type(s) available. <ul style="list-style-type: none"> 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 www.ksb.com/reach .

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	25	■		■		■		
	BOA-Compact	25	■		■		■		
	BOA-Compact EKB	25	■	■	■		■		
	BOA-W	25	■		■		■		
Bellows-type globe valves to DIN/EN	BOA-H	26		■	■	■	■	■	
	BOA-H/HE/HV/HEV	26	■		■	■	■	■	
	NORI 40 ZXLBV/ZXSBV	26		■	■	■	■	■	
	NORI 40 ZXLB/ZXSB	26	■		■	■	■	■	
	NORI 40 ZYLB/ZYSB	26		■	■	■	■	■	
Bellows-type globe valves to ANSI/ASME	BOACHEM-ZXAB/ZYAB	27	■		■	■	■	■	
	ECOLINE GLB 150-600	27	■		■	■	■		■
Globe valves to DIN/EN with gland packing	ECOLINE GLB 800	27	■		■	■	■		■
	NORI 40 ZXL/ZXS	27		■	■	■	■	■	
	NORI 40 ZXLF/ZXSF	28	■		■	■	■	■	
	NORI 160 ZXL/ZXS	28		■	■	■	■	■	
	NORI 160 ZXLF/ZXSF	28	■		■	■	■	■	
	NORI 320 ZXSV	28	■		■	■	■	■	
	NORI 500 ZXSV	28	■		■	■	■	■	
	BOACHEM-ZXA	29		■	■		■		
	ECOLINE VA16	29		■	■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	29	■		■	■	■		
	ECOLINE GLF 150-600	29	■		■	■	■		
	ECOLINE GLF 800	29	■		■	■	■		
	ECOLINE GLV 150-600	30	■		■	■	■		
	SICCA 150-600 GLC	30	■		■	■	■		
	SICCA 900-2500 GLC	30	■		■	■	■		
Globe valves for nuclear applications	SICCA 800-4500 GLF	30	■		■	■	■		
	NUCA-A/E5, Types I, II, IV	30	■			■			
	ZXNB	31	■			■			
	ZXNVB	31				■			
Automated globe valves to DIN/EN	ZYNB/ZYN	31	■			■			
	BOA-H Mat E	31	■		■	■	■	■	
	BOA-H Mat P	31	■		■	■	■	■	
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	32	■	■	■	■	■		
	BOA-CVE H	32	■		■	■	■	■	
	BOA-CVP H	32	■		■	■	■	■	
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	33	■	■	■	■	■		
	BOA-Control SAR	33			■				
Level control valves to DIN/EN	CONDA-VLC	33		■					
Pressure reducing valves to DIN/EN	CONDA-VRC	34		■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	34		■					
Air valves to DIN/EN	BOAVENT-AVF	34		■					
	BOAVENT-SIF	34		■					
	BOAVENT-SVA	35		■					
	BOAVENT-SVF	35		■					
Vent valves for nuclear applications	SISTO-VentNA	35			■		■		
	SISTO-KRVNA	35			■		■		

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Gate valves to DIN/EN	COBRA-SGP/SGO/SGF	36		■	■			■	
	COBRA-SMP	36		■	■			■	
	ECOLINE SP/SO	36		■	■			■	
	ECOLINE GT 40	36	■		■				
	STAAL 40 AKD/AKDS	36	■	■	■	■			
	STAAL 100 AKD/AKDS	37	■	■	■	■			
	AKG-A/AKGS-A	37	■	■	■	■			
	ZTS	37	■	■	■	■			
	ECOLINE GTB 800	37	■	■	■	■			■
	ECOLINE GTC 150-600	37	■	■	■	■			
Gate valves to ANSI/ASME	ECOLINE GTF 150-600	38	■	■	■	■			
	ECOLINE GTF 800	38	■	■	■	■			
	ECOLINE GTV 150-600	38	■	■	■	■			
	SICCA 150-600 GTC	38	■	■	■	■			
	SICCA 900-3600 GTC	38	■	■	■	■			
	SICCA 800-2500 GTF	39	■	■	■	■			
	ZTN	39	■			■			
	UGS	39			■	■			
	HERA-BD	39	■	■	■	■	■		■
	HERA-BDS	40	■	■	■	■			■
Knife gate valves to ANSI/ASME	HERA-BHT	40	■	■	■	■			■
	HERA-SH	40	■	■	■	■			■
	BOA-RPL	40		■				■	
	BOA-RFV	41		■	■			■	
	BOA-RVK	41			■	■		■	
	BOA-R	41			■	■		■	
	NORI 40 RXL/RXS	41			■	■		■	
	NORI 160 RXL/RXS	41			■	■		■	
	RGS	42			■	■			
	BOACHEM-RXA	42			■			■	
Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	42			■	■			
	ECOLINE PTF 800	42			■	■			
	SICCA 800-4500 PCF	42			■	■			
	NUCA-/A-/ES, Type V	43				■			
	RJN	43				■			
	RYN	43	■			■			
	ECOLINE WTI/WTI	43			■			■	
	STAAL 40 AKK/AKKS	44			■	■			
	STAAL 100 AKK/AKKS	44			■	■			
	AKR/AKRS	44			■	■			
Swing check valves to DIN/EN	ZRS	44			■	■			
	SISTO-RSK/RSKS	44		■	■	■			■
	SERIE 2000	45	■	■	■			■	
	ECOLINE SCC 150-600	45			■	■			
	ECOLINE SCF 150-600	45			■	■			
	ECOLINE SCF 800	45			■	■			
	ECOLINE SCV 150-600	45			■	■			
	SICCA 150-600 SCC	46			■	■			
	SICCA 900-3600 SCC	46			■	■			
	SISTO-RSKNA	46				■			
Swing check valves to DIN/EN	ZRN	46				■			
	COBRA-TDC01/03	47		■	■	■			

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Strainers to DIN/EN	BOA-S	47			■	■	■		
	NORI 40 FSL/FSS	47		■	■	■	■		
	BOACHEM-FSA	47		■			■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	48		■	■	■			
	ECOLINE FYF 800	48		■	■	■			
Centred-disc butterfly valves	BOAX-CBV13	48		■	■	■	■		
	BOAX-S/SF	48	■					■	
	BOAX-B	49	■	■	■	■		■	
	ISORIA 10/16	49	■	■	■	■	■		■
	ISORIA 20/25	49	■	■	■	■	■	■	
	ISORIA 20 UL	49	■		■				
	MAMMOUTH	49	■	■	■	■	■		
	KE	50	■	■	■	■			
	APORIS-DEB02	50		■	■	■	■		
Double-offset butterfly valves	DANAÏS 150	50	■	■	■	■	■	■	■
	DANAÏS MTII	50	■		■	■	■		
	DANAÏS TBTII	51	■		■				
Triple-offset butterfly valves	TRIODIS 150	51	■		■	■	■		
	TRIODIS 300	51	■		■	■	■		
	TRIODIS 600	51	■		■	■	■		
Butterfly valves for nuclear applications	CLOSSIA	52	■			■			
Combined butterfly/check valves	DUALIS	52		■					
Single-piece ball valves	MP-CI/MP-II	52	■	■					
	PROFIN-VT1	52		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	53	■		■	■	■		■
	PROFIN-VT2	53		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	53	■		■	■	■		■
	PROFIN-SI3	53	■	■	■	■		■	
	PROFIN-VT3	54		■	■	■		■	
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	54	■	■	■	■	■		
	SISTO-10	54	■	■	■	■	■		
	SISTO-10M	54	■	■	■	■	■	■	
	SISTO-16	55	■	■	■	■	■		
	SISTO-16S	55	■	■	■	■	■		
	SISTO-16RGA	55		■			■		
	SISTO-16TWA/HWA/DLU	55	■	■			■		
Diaphragm valves for nuclear applications	SISTO-20	55	■		■	■			■
	SISTO-C	56	■	■					■
Feed water bypass valves	SISTO-20NA	56	■			■			
	SISTO-DrainNA	56				■			
Expansion and anti-vibration joints	ZJSVM/RJSVM	56	■		■	■			
	ECOLINE GE1/GE2/GE3	57			■		■		
	ECOLINE GE4	57			■		■		

Actuators

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Levers	CR/CM	58	■	■	■	■		
	S/SR/SP	58	■	■	■	■		
Manual gearbox	MN	58	■	■		■		
	MR	58	■	■	■	■	■	
Electric actuators	ACTELEC (AUMA)	59	■	■	■	■		
	ACTELEC (BERNARD CONTROLS)	59	■	■	■	■		
	SISTO-LAE	59	■	■	■	■	■	
Hydraulic actuators	HQ	59	■	■	■			
Pneumatic actuators	ACTAIR NG	60	■	■	■			
	DYNACTAIR NG	60	■	■	■			
	SISTO-LAD	60	■	■	■	■	■	
	SISTO-LAP	60	■	■	■	■	■	
	SISTO-C LAP	61						■
Control accessories	RMD	61	■	■	■	■		

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

Automation

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Monitoring	AMTROBOX	62	■	■	■			
	AMTROBOX EEx ia	62	■	■	■			
	AMTROBOX ATEX Zone 22	62	■	■	■			
	AMTROBOX F	62	■		■	■		
	AMTROBOX M	62	■	■	■	■		
	AMTROBOX R	63	■	■	■			
	AMTROBOX R EEx ia	63	■	■	■			
ON/OFF valve controllers	AMTROBOX R Ex d	63	■	■	■			
	AMTRONIC	63	■	■	■			
Positioners	AMTRONIC Ex ia	64	■	■	■			
	SMARTRONIC MA	64	■	■	■			
	SMARTRONIC AS-i	64	■	■	■			
Intelligent positioners	SMARTRONIC PC	65	■	■	■			

Fluids handled

Applications

Applications

Globe valves for nuclear applications		NUCA/-A/-ES, Types I, II, IV	
		ZYNB/ZYN	
		ZXNB	
		ZXNVB	
Spray irrigation		Automated globe valves to DIN/EN	
Mining		BOA-H Mat E	
Irrigation		BOA-H Mat P	
Chemical industry		Control valves to DIN/EN	
Pressure boosting		BOA-CVE C/CS/W/IMS/EKB/IMS EKB	
Disposal		BOA-CVE H	
Drainage		BOA-CVP H	
Descaling units		Balancing and shut-off valves to DIN/EN	
District heating		BOA-Control / BOA-Control IMS	
Solids transport		BOA-Control SAR	
Fire-fighting systems		Level control valves to DIN/EN	
Gas pipelines		CONDA-VLC	
Gas storage facilities		Pressure reducing valves to DIN/EN	
Maintaining groundwater levels		CONDA-VRC	
Domestic water supply		Pressure sustaining valves to DIN/EN	
HVAC systems		CONDA-VSM	
Homogenisation		Air valves	
Industrial recirculation systems		BOAVENT-AVF	
Nuclear power stations		BOAVENT-SVF	
Boiler feed applications		BOAVENT-SIF	
Boiler recirculation		BOAVENT-SVA	
Waste water treatment plants		Vent valves for nuclear applications	
Air-conditioning systems		SISTO-VentNA	
Condensate transport		SISTO-KRVNA	
Fossil-fuelled power stations			
Cooling circuits			
Paint shops			
Food and beverage industry			
Seawater desalination / reverse osmosis			
Mixing			
Paper and pulp 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

Applications

Applications

	Strainers to DIN/EN	Strainers to ASME	Centred-disc butterfly valves	Double-offset butterfly valves	Triple-offset butterfly valves	Butterfly valves for nuclear applications	Combined butterfly/check valves
Spray irrigation							
Mining	■						
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							
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Industrial recirculation systems							
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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							
Paper and pulp 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

Soft-seated globe valves to DIN/EN

BOA-SuperCompact

	PN 6/10/16 DN 20 - 200 T [°C] $\geq -10 - \leq +120$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000312		

BOA-Compact

	PN 6/16 DN 15 - 200 T [°C] $\geq -10 - \leq +120$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000310		

BOA-Compact EKB

	PN 10/16 DN 15 - 200 T [°C] $\geq -10 - \leq +80$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000311		

BOA-W

	PN 6/16 DN 15 - 200 T [°C] $\geq -10 - \leq +120$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000309		

Bellows-type globe valves to DIN/EN

BOA-H

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



BOA-H/HE/HV/HEV

	PN	25/40	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.
	DN	10 - 350	
	T [°C]	≥ -10 - ≤ +450	Applications Industrial plants, building services, power stations and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



NORI 40 ZXLBV/ZXSBV

	PN	25/40	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.
	DN	10 - 200	
	T [°C]	≥ -10 - ≤ +450	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



NORI 40 ZXLB/ZXSB

	PN	25/40	Description Bellows-type globe valve to DIN/EN with flanged ends (ZXLB), butt weld ends or socket weld ends (ZXSB), 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.
	DN	10 - 200	
	T [°C]	≥ -10 - ≤ +450	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



NORI 40 ZYLB/ZYSB

	PN	25/40	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.
	DN	15 - 300	
	T [°C]	≥ -10 - ≤ +450	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.



BOACHEM-ZXAB/ZYAB

	PN	10 - 40	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.
	DN	15 - 400	
	T [°C]	≥ -10 - ≤ +400	





<http://shop.ksb.com/catalog/k0/en/product/ES000337>

Bellows-type globe valves to ANSI/ASME

ECOLINE GLB 150-600

	Class	150 - 600	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.
	NPS [inch]	2 - 12	
	T [°C]	≥ 0 - ≤ +427	





<http://shop.ksb.com/catalog/k0/en/product/ES000901>

ECOLINE GLB 800

	Class	150 - 800	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.
	NPS [inch]	½ - 2	
	T [°C]	≥ 0 - ≤ +427	





<http://shop.ksb.com/catalog/k0/en/product/ES000902>

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS

	PN	25/40	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.
	DN	10 - 400	
	T [°C]	≥ -10 - ≤ +450	





<http://shop.ksb.com/catalog/k0/en/product/ES000339>

NORI 40 ZXLF/ZXSF

	PN	25/40	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.
	DN	10 - 200	

≥ -10 - ≤ +450 T [°C]

Applications
 Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000341>



NORI 160 ZXL/ZXS

	PN	63 - 160	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.
	DN	10 - 200	

≥ -10 - ≤ +550 T [°C]

Applications
 Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000343>



NORI 160 ZXLF/ZXSF

	PN	63 - 160	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.
	DN	10 - 200	

≥ -10 - ≤ +550 T [°C]

Applications
 Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000345>



NORI 320 ZXSV

	PN	250 - 320	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.
	DN	10 - 50	

≥ -10 - ≤ +580 T [°C]

Applications
 Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000347>



NORI 500 ZXSV

	PN	250 - 500	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.
	DN	10 - 65	

≥ -10 - ≤ +650 T [°C]

Applications
 Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000350>



BOACHEM-ZXA

	PN	10 - 40	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.
	DN	15 - 400	

T [°C]
 $\geq -10 - \leq +400$

Applications
 Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.



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<http://shop.ksb.com/catalog/k0/en/product/ES000354>

ECOLINE VA16

	PN	16	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.
	DN	15 - 250	

T [°C]
 $\geq -10 - \leq +300$

Applications
 District heating, domestic water supply, air-conditioning systems, cooling circuits, high-temperature hot water heating systems, water supply.

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Globe valves to ANSI/ASME with gland packing

ECOLINE GLC 150-600

	Class	150 - 600	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.
	NPS [inch]	2 - 10	

T [°C]
 $\geq 0 - \leq +649$

Applications
 Refineries, power stations, process engineering and general industrial applications; water, steam, oil, gas. Other fluids on request.

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<http://shop.ksb.com/catalog/k0/en/product/ES000775>



ECOLINE GLF 150-600

	Class	150 - 600	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.
	NPS [inch]	½ - 2	

T [°C]
 $\geq 0 - \leq +816$

Applications
 Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

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<http://shop.ksb.com/catalog/k0/en/product/ES000426>



ECOLINE GLF 800

	Class	800	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.
	NPS [inch]	½ - 2	

T [°C]
 $\geq 0 - \leq +593$

Applications
 Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

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<http://shop.ksb.com/catalog/k0/en/product/ES000796>



ECOLINE GLV 150-600



Class	150 - 600	Description
NPS [inch]	2 - 12	Globe valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted bonnet, outside screw and yoke, integral seat, graphite gland packing, stainless steel / graphite gaskets.
T [°C]	≥ -29 - ≤ +593	Applications Fine chemicals, food industry, general industry. For water, steam, gas and other fluids. Other fluids on request.


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<http://shop.ksb.com/catalog/k0/en/product/ES000584>

SICCA 150-600 GLC



Class	150 - 600	Description
NPS [inch]	2 - 10	Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rotating 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.
T [°C]	≥ 0 - ≤ +593	Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.


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<http://shop.ksb.com/catalog/k0/en/product/ES000484>

SICCA 900-2500 GLC



Class	900 - 2500	Description
NPS [inch]	2 - 8	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.
T [°C]	≥ 0 - ≤ +650	Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.


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<http://shop.ksb.com/catalog/k0/en/product/ES000485>

SICCA 800-4500 GLF



Class	800 - 4500	Description
NPS [inch]	1/4 - 2	Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with bolted bonnet (Class 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 and alloy steel.
T [°C]	≥ 0 - ≤ +816	Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.


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<http://shop.ksb.com/catalog/k0/en/product/ES000480>

Globe valves for nuclear applications

NUCA/-A/-ES, Types I, II, IV



PN	≤ 320	Description
DN	10 - 50	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.
T [°C]	≥ -29 - ≤ +365	Applications Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.


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<http://shop.ksb.com/catalog/k0/en/product/ES000452>

ZXNB

	PN	≤ 210	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.
	DN	65 - 300	

 <http://shop.ksb.com/catalog/k0/en/product/ES000458>



ZXNVB

	PN	≤ 210	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.
	DN	4 - 25	

 <http://shop.ksb.com/catalog/k0/en/product/ES000457>



ZYNB/ZYN

	PN	≤ 62	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.
	DN	300 - 400	

 <http://shop.ksb.com/catalog/k0/en/product/ES000331>



Automated globe valves to DIN/EN

BOA-H Mat E

	PN	16/25	Description Automated globe valve to DIN/EN with flanged ends, with electric actuator and 3-point actuation, actuating forces from 2000 N to 14,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C). Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.
	DN	20 - 150	

 <http://shop.ksb.com/catalog/k0/en/product/ES000801>



BOA-H Mat P

	PN	16/25	Description Automated globe valve to DIN/EN with flanged ends, with pneumatic actuator in spring-to-open or spring-to-close design on option, actuating forces from 1500 N to 26,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C). Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.
	DN	20 - 150	

 <http://shop.ksb.com/catalog/k0/en/product/ES000885>



Control valves to DIN/EN

BOA-CVE C/CS/W/IMS/EKB/IMS EKB

	PN	6/10/16	Description Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB and BOA-Control IMS, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight, Kvs values between 6.3 and 700 m³/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.
	DN	15 - 200	
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	http://shop.ksb.com/catalog/k0/en/product/ES000326		

BOA-CVE H

	PN	16/25/40	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 m³/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.
	DN	15 - 200	
Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.			
 e	http://shop.ksb.com/catalog/k0/en/product/ES000772		

BOA-CVP H

	PN	16/25/40	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 m³/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.
	DN	15 - 200	
Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.			
 p	http://shop.ksb.com/catalog/k0/en/product/ES000662		

Balancing and shut-off valves to DIN/EN

BOA-Control/BOA-Control IMS

	PN 16 DN 15 - 350 T [°C] $\geq -10 - \leq +120$	<p>Description</p> <p>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).</p> <p>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).</p> <p>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.</p>	
		http://shop.ksb.com/catalog/k0/en/product/ES000323	

BOA-Control SAR

	PN 16 DN 10 - 50 T [°C] $\geq -25 - \leq +150$	<p>Description Balancing valve to DIN/EN with female screwed ends; differential pressure measurement for flow metering with PFM 2000 measuring computer; digital travel position indicator with 40 settings, locking device and travel stop, maintenance-free.</p> <p>Applications Hot-water heating systems up to 150 °C. Air-conditioning systems. Other fluids on request.</p>	
		http://shop.ksb.com/catalog/k0/en/product/ES000324	

Level control valves to DIN/EN

CONDA-VLC

	PN 16 DN 25 - 300 T [°C] $\geq -10 - \leq +70$	<p>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.</p> <p>Applications Water supply systems, industry and building services. For controlling water levels.</p>	
		http://shop.ksb.com/catalog/k0/en/product/ES000835	

Pressure reducing valves to DIN/EN

CONDA-VRC

	PN	16/25/40/63	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.	
	DN	15 - 150			

<http://shop.ksb.com/catalog/k0/en/product/ES000834>

Pressure sustaining valves to DIN/EN

CONDA-VSM

	PN	16/25/40	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.	
	DN	50 - 150			

<http://shop.ksb.com/catalog/k0/en/product/ES000678>

Air valves to DIN/EN

BOAVENT-AVF

	PN	16	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.	
	DN	50 - 300			

<http://shop.ksb.com/catalog/k0/en/product/ES000831>

BOAVENT-SIF

	PN	16	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.	
	DN	25 - 200			

<http://shop.ksb.com/catalog/k0/en/product/ES000832>

BOAVENT-SVA



PN	16	Description
DN	50 - 200	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.
T [°C]	≥ -10 - ≤ +60	Applications Water supply, waste water, untreated waste water.



<http://shop.ksb.com/catalog/k0/en/product/ES000833>

BOAVENT-SVF



PN	16/25/40	Description
DN	25 - 300	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.
T [°C]	≥ -10 - ≤ +70	Applications Water supply, clean water, irrigation.



<http://shop.ksb.com/catalog/k0/en/product/ES000832>

Vent valves for nuclear applications

SISTO-VentNA



PN	16	Description
DN	15	Soft-seated vent valve with butt weld ends, for nuclear applications
T [°C]	≥ -20 - ≤ +100	Applications Heating systems, air-conditioning systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000842>

SISTO-KRVNA



PN	16	Description
DN	25 - 100	Vent valve with flanged or butt weld ends, for nuclear applications, soft-seated, with floating ball.
T [°C]	≥ -20 - ≤ +100	Applications Tank venting, drainage systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000839>

Gate valves to DIN/EN

COBRA-SGP/SGO/SGF

	PN 16 DN 25 - 600 T [°C] $\geq -10 - \leq +110$	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 http://shop.ksb.com/catalog/k0/en/product/ES000828			

COBRA-SMP

	PN 16 DN 40 - 300 T [°C] $\geq -10 - \leq +110$	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 http://shop.ksb.com/catalog/k0/en/product/ES000829			

ECOLINE SP/SO

	PN 10/16/25 DN 40 - 600 T [°C] $\geq -10 - \leq +110$	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 http://shop.ksb.com/catalog/k0/en/product/ES000654			

ECOLINE GT 40

	PN 10 - 40 DN 50 - 800 T [°C] $\geq -10 - \leq +400$	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 http://shop.ksb.com/catalog/k0/en/product/ES000676			

STAAL 40 AKD/AKDS

	PN 10 - 40 DN 50 - 900 T [°C] $\geq -10 - \leq +530$	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 http://shop.ksb.com/catalog/k0/en/product/ES000469			

STAAL 100 AKD/AKDS



PN	63 - 100	Description
DN	50 - 600	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.
T [°C]	≥ -10 - ≤ +530	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



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<http://shop.ksb.com/catalog/k0/en/product/ES000369>

AKG-A/AKGS-A



PN	63 - 160	Description
DN	65 - 300	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.
T [°C]	≥ -10 - ≤ +550	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



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<http://shop.ksb.com/catalog/k0/en/product/ES000371>

ZTS



PN	≤ 600	Description
Class	4500	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.
DN	50 - 800	Applications
NPS [inch]	2 - 32	Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
T [°C]	≥ -10 - ≤ +650	



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<http://shop.ksb.com/catalog/k0/en/product/ES000375>

Gate valves to ANSI/ASME

ECOLINE GTB 800



Class	150 - 800	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +427	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.



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<http://shop.ksb.com/catalog/k0/en/product/ES000903>

ECOLINE GTC 150-600



Class	150 - 600	Description
NPS [inch]	2 - 24	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.
T [°C]	≥ 0 - ≤ +649	Applications Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.



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<http://shop.ksb.com/catalog/k0/en/product/ES000774>

ECOLINE GTF 150-600



Class	150 - 600	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +816	Applications Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.


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<http://shop.ksb.com/catalog/k0/en/product/ES000611>

ECOLINE GTF 800



Class	800	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +593	Applications Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.


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<http://shop.ksb.com/catalog/k0/en/product/ES000797>

ECOLINE GTV 150-600



Class	150 - 600	Description
NPS [inch]	2 - 12	Gate valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, integral seat, graphite gland packing, stainless steel/graphite gaskets.
T [°C]	≥ -29 - ≤ +593	Applications Fine chemicals, food industry, general industry; water, steam, gas and other fluids.


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<http://shop.ksb.com/catalog/k0/en/product/ES000373>

SICCA 150-600 GTC



Class	150 - 600	Description
NPS [inch]	2 - 24	Gate valve to ANSI/ASME with flanged or butt weld ends, with bolted bonnet, outside screw and yoke, flexible wedge, non-rising or rising stem and 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.
T [°C]	≥ 0 - ≤ +593	Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.


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<http://shop.ksb.com/catalog/k0/en/product/ES000482>

SICCA 900-3600 GTC



Class	900 - 3600	Description
NPS [inch]	2 - 28	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.
T [°C]	≥ 0 - ≤ +650	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.


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<http://shop.ksb.com/catalog/k0/en/product/ES000483>

SICCA 800-2500 GTF

	Class NPS [inch] T [°C]	150 - 2500 1/4 - 2 1/2 $\geq 0 - \leq +816$	Description Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with bolted bonnet (Class 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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000479			

Gate valves for nuclear applications

ZTN

	PN DN T [°C]	≤ 320 80 - 700 $\geq -29 - \leq +365$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000456			

Body pressure relief valves

UGS

	PN DN	≥ 40 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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000375			

Knife gate valves to DIN/EN

HERA-BD

	PN DN T [°C]	10 50 - 1200 $\geq -10 - \leq +120$	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.	
	http://shop.ksb.com/catalog/k0/en/product/ES000597			

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 http://shop.ksb.com/catalog/k0/en/product/ES000895			

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 http://shop.ksb.com/catalog/k0/en/product/ES000891			

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 http://shop.ksb.com/catalog/k0/en/product/ES000844			

Lift check valves to DIN/EN

BOA-RPL

	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.	
■ Not available for worldwide sale ■ Actuator/Automation http://shop.ksb.com/catalog/k0/en/product/ES000635			

BOA-RFV



PN	10/16/25/40/63	Description
DN	40 - 600	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.
T [°C]	≥ -10 - ≤ +90	Rapid closure without surge pressures.

<http://shop.ksb.com/catalog/k0/en/product/ES000653>



BOA-RVK



PN	6/10/16	Description
DN	15 - 200	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.
T [°C]	≥ -20 - ≤ +250	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.

<http://shop.ksb.com/catalog/k0/en/product/ES000357>



BOA-R



PN	6/16	Description
DN	15 - 350	Lift check valve to DIN/EN with flanged ends, spring-loaded valve disc, maintenance-free.
T [°C]	≥ -10 - ≤ +350	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.

<http://shop.ksb.com/catalog/k0/en/product/ES000356>



NORI 40 RXL/RXS



PN	25/40	Description
DN	10 - 300	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.
T [°C]	≥ -10 - ≤ +450	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000358>



NORI 160 RXL/RXS



PN	63 - 160	Description
DN	10 - 200	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.
T [°C]	≥ -10 - ≤ +550	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

<http://shop.ksb.com/catalog/k0/en/product/ES000360>



RGS



PN	250 - 500	Description
DN	10 - 50	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.
T [°C]	≥ -10 - ≤ +580	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000364>

BOACHEM-RXA



PN	10 - 40	Description
DN	15 - 400	Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface.
T [°C]	≥ -10 - ≤ +400	Applications Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000364>

Lift check valves to ANSI/ASME

ECOLINE PTF 150-600



Class	150 - 600	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +816	Applications Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.



<http://shop.ksb.com/catalog/k0/en/product/ES000424>

ECOLINE PTF 800



Class	800	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +593	Applications Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.



<http://shop.ksb.com/catalog/k0/en/product/ES000374>

SICCA 800-4500 PCF



Class	800 - 4500	Description
NPS [inch]	¼ - 2	Lift check valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with spring-loaded valve disc, bolted cover (Class 800) or welded cover (Class 1500/2500/4500), Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gasket. Available in carbon steel and alloy steel.
T [°C]	≥ 0 - ≤ +816	Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000481>

Lift check valves for nuclear applications

NUCA/-A/-ES, Type V

	PN DN T [°C]	≤ 410 10 - 50 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000455				

RJN

	PN DN T [°C]	≤ 140 80 - 600 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000459				

RYN

	PN DN T [°C]	≤ 210 65 - 300 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000333				

Swing check valves to DIN/EN

ECOLINE WT/WTI

	PN DN T [°C]	16 50 - 300 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000638				

STAAL 40 AKK/AKKS



PN	10 - 40	Description
DN	80 - 400	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.
T [°C]	≥ -10 - ≤ +450	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000471>

STAAL 100 AKK/AKKS



PN	63 - 100	Description
DN	80 - 400	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.
T [°C]	≥ -10 - ≤ +530	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000391>

AKR/AKRS



PN	63 - 160	Description
DN	80 - 300	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.
T [°C]	≥ -10 - ≤ +550	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000394>

ZRS



PN	≤ 600	Description
DN	50 - 800	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.
T [°C]	≥ -10 - ≤ +650	Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000396>

SISTO-RSK/RSKS



PN	16	Description
DN	25 - 300	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.
T [°C]	≥ -20 - ≤ +140	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.



<http://shop.ksb.com/catalog/k0/en/product/ES000397>

SERIE 2000



PN	16/25	Description
Class	150/300	Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel, stainless steel or copper aluminium alloy, metal/elastomer-seated or metal/metal-seated, maintenance-free, connections to EN, ASME or JIS.
DN	50 - 600	
T [°C]	≥ -196 - ≤ +538	



<http://shop.ksb.com/catalog/k0/en/product/ES000393>

Swing check valves to ANSI/ASME

ECOLINE SCC 150-600



Class	150 - 600	Description
NPS [inch]	2 - 24	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.
T [°C]	≥ 0 - ≤ +816	



<http://shop.ksb.com/catalog/k0/en/product/ES000776>

ECOLINE SCF 150-600



Class	150 - 600	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +816	



<http://shop.ksb.com/catalog/k0/en/product/ES000799>

ECOLINE SCF 800



Class	800	Description
NPS [inch]	½ - 2	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.
T [°C]	≥ 0 - ≤ +593	



<http://shop.ksb.com/catalog/k0/en/product/ES000798>

ECOLINE SCV 150-600



Class	150 - 600	Description
NPS [inch]	2 - 12	Swing check valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted cover, integral seat, stainless steel/graphite gaskets.
T [°C]	≥ -29 - ≤ +593	



<http://shop.ksb.com/catalog/k0/en/product/ES000335>

SICCA 150-600 SCC

	Class	150 - 600	Description
	NPS [inch]	2 - 24	Swing check valve to ANSI/ASME with flanged or butt weld ends, with bolted cover, internally mounted hinge pin. 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.
	T [°C]	≥ 0 - ≤ +593	Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
			http://shop.ksb.com/catalog/k0/en/product/ES000486



SICCA 900-3600 SCC

	Class	900 - 3600	Description
	NPS [inch]	2 - 28	Swing check valve to ANSI/ASME with butt weld ends, pressure seal design, internally mounted hinge pin, Stellite hard-faced seat/disc interface, with graphite gasket. Available in carbon steel and alloy steel.
	T [°C]	≥ 0 - ≤ +650	Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
			http://shop.ksb.com/catalog/k0/en/product/ES000487



Swing check valves for nuclear applications

SISTO-RSKNA

	PN	16	Description
	DN	25 - 300	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.
	T [°C]	≥ -20 - ≤ +100	Applications Waste water systems, pump systems.
			http://shop.ksb.com/catalog/k0/en/product/ES000838



ZRN

	PN	≤ 320	Description
	DN	50 - 600	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.
	T [°C]	≥ -29 - ≤ +365	Applications Safety feed, feed water, live steam and condensate systems.
			http://shop.ksb.com/catalog/k0/en/product/ES000399



Tilting disc check valves to DIN/EN

COBRA-TDC01/03

	PN DN T [°C]	10/16/25 100 - 1000 ≥ -10 - ≤ +70	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	
http://shop.ksb.com/catalog/k0/en/product/ES000830				

Strainers to DIN/EN

BOA-S

	PN DN T [°C]	6/16/25 15 - 400 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000401				

NORI 40 FSL/FSS

	PN DN T [°C]	25/40 15 - 300 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000523				

BOACHEM-FSA

	PN DN T [°C]	10 - 40 15 - 400 ≥ -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.	
http://shop.ksb.com/catalog/k0/en/product/ES000402				

Strainers to ANSI/ASME

ECOLINE FYC 150-600

	Class	150 - 600	Description	
	NPS [inch]	2 - 12	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.	

<http://shop.ksb.com/catalog/k0/en/product/ES000665>

ECOLINE FYF 800

	Class	800	Description	
	NPS [inch]	½ - 2	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.	

<http://shop.ksb.com/catalog/k0/en/product/ES000666>

Centred-disc butterfly valves

BOAX-CBV13

	PN	10/16	Description	
	DN	50 - 1200	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.	

<http://shop.ksb.com/catalog/k0/en/product/ES000825>

BOAX-S/SF

	PN	6/10/16	Description	
	DN	20 - 600	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 models); 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.	

<http://shop.ksb.com/catalog/k0/en/product/ES000388>

■ m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

BOAX-B

	PN	10/16	Description Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC 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.
	DN	40 - 1000	
	T [°C]	≥ -10 - ≤ +110	Applications Engineering contractors. General water circuits, fuel oil, oil. Shut-off and control duties in water management, for water supply and water treatment, drainage and irrigation.

  m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000573>



ISORIA 10/16

	PN	10/16	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.
	DN	40 - 1000	
	T [°C]	≥ -10 - ≤ +200	Applications Shut-off and control duties in all industrial and energy sectors.

 m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000377>



ISORIA 20/25

	PN	20/25	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.
	DN	32 - 1000	
	T [°C]	≥ -10 - ≤ +200	Applications Shut-off and control duties in all industrial and energy sectors.

 m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000379>



ISORIA 20 UL

	PN	16	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.
	DN	40 - 700	
	T [°C]	≥ -10 - ≤ +200	Applications Fire protection

 m

<http://shop.ksb.com/catalog/k0/en/product/ES000379>



MAMMOUTH

	PN	6/10/16/20/25	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.
	DN	1050 - 4000	
	T [°C]	≥ 0 - ≤ +80	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

<http://shop.ksb.com/catalog/k0/en/product/ES000382>



KE



PN 10
DN 40 - 600
T [°C] $\geq -20 - \leq +200$

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

<http://shop.ksb.com/catalog/k0/en/product/ES000380>

Double-offset butterfly valves

APORIS-DEB02



PN 10/16/25
DN 150 - 2200
T [°C] $\geq -10 - \leq +80$

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



DANAÏS 150



PN ≤ 25
Class 150
DN 50 - 1200
T [°C] $\geq -50 - \leq +260$

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, aluminium bronze 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, 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

<http://shop.ksb.com/catalog/k0/en/product/ES000427>



DANAÏS MTII



PN 25/50
Class 150/300
DN 50 - 600
T [°C] $\geq -50 - \leq +260$

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

<http://shop.ksb.com/catalog/k0/en/product/ES000381>



DANAIS TBTII

	PN	10/20	Description Double-offset butterfly valve for cryogenic applications; full-lug body (T4), flanged body (T7) with flat or raised faces, or body with butt weld ends made of stainless steel to ASME Class 150, JIS, fire-safe design. On request degreased for oxygen service. Manual gearbox, pneumatic, electric or hydraulic actuator. Applications Natural gas liquefaction, onshore and offshore plants. All liquefied gases.
	Class	150	
	DN	50 - 1200	
	T [°C]	≥ -196 - ≤ +200	



 m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000815>

Triple-offset butterfly valves

TRIODIS 150

	PN	≤ 20	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.
	Class	150	
	DN	50 - 1500	
	T [°C]	≥ -196 - ≤ +450	



 m, e, h, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000816>

TRIODIS 300

	PN	≤ 50	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.
	Class	300	
	DN	80 - 1200	
	T [°C]	≥ -196 - ≤ +450	



 m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000817>

TRIODIS 600

	PN	≤ 100	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.
	Class	600	
	DN	150 - 1000	
	T [°C]	≥ -196 - ≤ +450	



 m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000818>

Butterfly valves for nuclear applications

CLOSSIA

	PN	$\leq 5,5$	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.
	DN	250/500/750/1000	
	T [°C]	$\geq -20 - \leq +170$	

 m, e, p

Combined butterfly/check valve

DUALIS

	DN	500 - 1400	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.
	T [°C]	$\geq -10 - \leq +65$	



<http://shop.ksb.com/catalog/k0/en/product/ES000905>

Single-piece ball valves

MP-Cl/MP-II

	PN	16	Description Ball valve to DIN/EN with wafer-type body made of Kanigen-treated carbon steel (MP/Cl) 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.
	DN	15 - 150	
	T [°C]	$\geq -10 - \leq +200$	

  m, p + AMTROBOX/AMTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000625>

PROFIN-VT1

	PN	40	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.
	DN	8 - 50	
	T [°C]	$\geq -40 - \leq +150$	

  m

Two-piece ball valves

ECOLINE BLT 150-300

	Class 150 / 300 DN 15 - 300 T [°C] $\geq -10 - \leq +200$	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.	
			http://shop.ksb.com/catalog/k0/en/product/ES000795

PROFIN-VT2

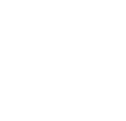
	PN 40 DN 8 - 80 T [°C] $\geq -40 - \leq +150$	Description Ball valve to ANSI/ASME with threaded ends (BSP), two-piece body, full bore, solid ball, anti-static design, blowout-proof shaft, body made of stainless steel. Applications Spray irrigation systems, general irrigation systems, fire-fighting systems, 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.	
			http://shop.ksb.com/catalog/k0/en/product/ES000795

Three-piece ball valves

ECOLINE BLC 1000

	Class 1000 WOG DN 8 - 100 T [°C] $\geq -10 - \leq +200$	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.	
			http://shop.ksb.com/catalog/k0/en/product/ES000794

PROFIN-SI3

	PN 16/40 DN 15 - 100 T [°C] $\geq -40 - \leq +150$	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.	
			http://shop.ksb.com/catalog/k0/en/product/ES000793

PROFIN-VT3

 m	PN	40	Description
	DN	8 - 100	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.
	T [°C]	≥ -40 - ≤ +150	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.

Soft-seated diaphragm valves to DIN/EN

SISTO-KB

 m, e, p	PN	10	Description
	DN	15 - 200	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.
	T [°C]	≥ -20 - ≤ +140	Applications Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.



SISTO-10

 m, e, p	PN	10	Description
	DN	15 - 300	Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by spiral-supported diaphragm (DN 65 and above); body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
	T [°C]	≥ -20 - ≤ +160	Applications Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.



SISTO-10M

 m, e, p	PN	10	Description
	DN	15 - 80	Diaphragm valve to DIN/EN with threaded sockets; shut-off and sealing to atmosphere by spiral-supported diaphragm (DN 65 and above); position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
	T [°C]	≥ -10 - ≤ +140	Applications Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.



SISTO-16

	PN	16	Description Diaphragm valve to DIN/EN with flanged 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.
	DN	15 - 200	
	T [°C]	≥ -10 - ≤ +160	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.



SISTO-16S

	PN	16	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.
	DN	15 - 200	
	T [°C]	≥ -20 - ≤ +160	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.



SISTO-16RGA

	PN	16	Description Diaphragm valve to DIN/EN with gunmetal body and threaded sockets for drinking water installations in building services to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with KTW recommendations (use of elastomers in drinking water applications); shut-off and sealing to atmosphere by completely enclosed diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
	DN	15 - 80	
	T [°C]	≥ -10 - ≤ +90	Applications Drinking water, particularly drinking water installations to DIN 1988, seawater, all service water qualities.



SISTO-16TWA/HWA/DLU

	PN	16	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 German Environment Agency guideline; shut-off and sealing to atmosphere by completely enclosed and spiral-supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
	DN	15 - 200	
	T [°C]	≥ -10 - ≤ +140	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



SISTO-20

	PN	16	Description Diaphragm valve to DIN/EN with flanged 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.
	DN	15 - 200	
	T [°C]	≥ -20 - ≤ +160	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.



<http://shop.ksb.com/catalog/k0/en/product/ES000318>

SISTO-C

	PN	16	Description
	DN	6 - 200	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.
	T [°C]	≥ -20 - ≤ +160	
			Applications Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.
■ m, p	http://shop.ksb.com/catalog/k0/en/product/ES000320		



Diaphragm valves for nuclear applications

SISTO-20NA

	PN	20	Description
	DN	8 - 150	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.
	T [°C]	≥ -20 - ≤ +100	
			Applications Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.
■ m, e, p	http://shop.ksb.com/catalog/k0/en/product/ES000840		



SISTO-DrainNA

	PN	16	Description
	DN	15 - 25	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.
	T [°C]	≥ -20 - ≤ +100	
			Applications Heating systems, air-conditioning systems, auxiliary systems.
■ m	http://shop.ksb.com/catalog/k0/en/product/ES000841		



Feed water bypass valves

ZJSVM/RJSVM

	PN	≤ 600	Description
	DN	100 - 800	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.
	T [°C]	≥ -10 - ≤ +450	
			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	http://shop.ksb.com/catalog/k0/en/product/ES000842		

Expansion and anti-vibration joints

ECOLINE GE1/GE2/GE3



PN	16	Description
DN	15 - 300	Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel.
T [°C]	≥ -10 - ≤ +105	Applications Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

ECOLINE GE4



PN	16	Description
DN	20 - 200	Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.
T [°C]	≥ -10 - ≤ +100	Applications Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

Levers

CR/CM

	T [°C] $\geq -20 - \leq +80$	Description Lever made of ductile 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 All applications in building services, water engineering, energy engineering, and industry.	
http://shop.ksb.com/catalog/k0/en/product/ES000501			

S/SR/SP

	T [°C] $\geq -20 - \leq +80$	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 All applications in water engineering, energy engineering, and industry.	
http://shop.ksb.com/catalog/k0/en/product/ES000501			

Manual gearboxes

MN

	Output torque [Nm] Enclosure T [°C]	≤ 250 IP67 $\geq -20 - \leq +80$	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.	
http://shop.ksb.com/catalog/k0/en/product/ES000503				

MR

	Output torque [Nm] Enclosure T [°C]	≤ 16000 IP67/IP68 $\geq -20 - \leq +80$	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			http://shop.ksb.com/catalog/k0/en/product/ES000504	

Electric actuators

ACTELEC (BERNARD CONTROLS)

	Quarter-turn actuator	AQ1L - SQ120	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 All applications in water engineering, energy and industrial engineering.
	Multi-turn actuator	31 - 800	
	Enclosure	IP67	
	Output torque [Nm]	≤ 8000	
	T [°C]	≥ -20 - ≤ +80	
http://shop.ksb.com/catalog/k0/en/product/ES000407			

ACTELEC (AUMA)

	Quarter-turn actuator	SQ 05.2 - SQ 12	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 All applications in water engineering, energy and industrial engineering.
	Multi-turn actuator	31 - 1600	
	Enclosure	IP67	
	Output torque [Nm]	≤ 16000	
	http://shop.ksb.com/catalog/k0/en/product/ES000407		
			

SISTO-LAE

	Type	AUMA	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.
	Multi-turn actuator		
	Enclosure	IP67	
	Output torque [Nm]	≤ 250	
	http://shop.ksb.com/catalog/k0/en/product/ES000405		
			

Hydraulic actuators

HQ

	Output torque [Nm]	≤ 55000	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	
	Enclosure	IP68		
	T [°C]	≥ -45 - ≤ +100		
	http://shop.ksb.com/catalog/k0/en/product/ES000924			
				

 AMTROBOX

Pneumatic actuators

ACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar	≤ 8000	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.
	Enclosure T [°C]	IP68 $\geq -50 - \leq +150$	Applications All applications in water engineering, energy and industrial engineering.

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<http://shop.ksb.com/catalog/k0/en/product/ES000411>



DYNACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar	≤ 4000	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 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.
	Enclosure T [°C]	IP68 $\geq -50 - \leq +150$	Applications All applications in water engineering, energy and industrial engineering.

■ AMTROBOX, AMTRONIC, SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000412>



SISTO-LAD

	Control air pressure [bar] Closing force [N]	≤ 6 ≤ 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.
			http://shop.ksb.com/catalog/k0/en/product/ES000805



SISTO-LAP

	Control air pressure [bar] Closing force [N]	$5,5 - 10$ ≤ 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 also be used in potentially explosive atmospheres.
			http://shop.ksb.com/catalog/k0/en/product/ES000409



SISTO-C LAP

	Control air pressure [bar] Closing force [N]	5,5 - 7 ≤ 20000	Description Piston actuator in high-grade stainless steel design for use on SISTO-C 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.	
http://shop.ksb.com/catalog/k0/en/product/E5000320				

Actuator accessories

RMD

	Enclosure T [°C]	IP65 $\geq -20 - \leq +80$	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 All applications in water engineering, energy engineering, and industry.
http://shop.ksb.com/catalog/k0/en/product/E5000320				

Monitoring

AMTROBOX

	Enclosure T [°C]	IP67 $\geq -20 - \leq +80$	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 All applications in water engineering, building services and energy engineering.	
http://shop.ksb.com/catalog/k0/en/product/ES000463				

AMTROBOX EEx ia

	Enclosure T [°C]	IP67 $\geq -10 - \leq +50$	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 All applications in water engineering, building services and energy engineering.	
http://shop.ksb.com/catalog/k0/en/product/ES000463				

AMTROBOX ATEX Zone 22

	Enclosure T [°C]	IP67 $\geq -10 - \leq +60$	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 All applications in water engineering, building services and energy engineering.	
http://shop.ksb.com/catalog/k0/en/product/ES000463				

AMTROBOX F

	Enclosure T [°C]	IP67 $\geq -25 - \leq +70$	Description Limit switch box specially designed for levers and all actuators with ISO 5211 interface for signalling open or closed position via proximity sensors. It can be used with type series S or C levers and ACTAIR NG/ DYNACTAIR NG pneumatic actuators. Thanks to its particularly low height (< 5 mm), it can be mounted between any valve and actuator with ISO 5211 interface. Applications All applications in water engineering, building services and energy engineering.	
http://shop.ksb.com/catalog/k0/en/product/ES000463				

AMTROBOX M

	Enclosure T [°C]	IP65 $\geq -20 - \leq +80$	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 All applications in water engineering, building services and energy engineering.	
http://shop.ksb.com/catalog/k0/en/product/ES000463				

AMTROBOX R

	Enclosure $T [^{\circ}\text{C}]$	IP68 $\geq -45 - \leq +80$	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 All applications in water engineering, energy engineering, offshore plants and heavy industry.	http://shop.ksb.com/catalog/k0/en/product/E5000463

AMTROBOX R EEx ia

	Enclosure $T [^{\circ}\text{C}]$	IP68 $\geq -25 - \leq +80$	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 All applications in water engineering, energy engineering, offshore plants and heavy industry.	http://shop.ksb.com/catalog/k0/en/product/E5000463

AMTROBOX R Ex d

	Enclosure $T [^{\circ}\text{C}]$	IP68 $\geq -25 - \leq +70$	Description Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R Ex d (R1189): intrinsically safe version for potentially explosive atmospheres.	
			Applications All applications in water engineering, energy engineering, offshore plants and heavy industry.	http://shop.ksb.com/catalog/k0/en/product/E5000463

ON/OFF valve controllers

AMTRONIC

	Enclosure Control air pressure [bar] $T [^{\circ}\text{C}]$	IP67 $3 - 8$ $\geq -20 - \leq +80$	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 and 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. AMTRONIC can be integrated in field bus environments with Profibus DP protocol and especially AS-i protocol.	
			Applications All applications in water engineering, energy engineering, and industry.	http://shop.ksb.com/catalog/k0/en/product/E5000462

AMTRONIC Ex ia

	Enclosure	IP67	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.
	Control air pressure [bar] T [°C]	3 - 8 ≥ -10 - ≤ +50	
http://shop.ksb.com/catalog/k0/en/product/ES000462			

Positioners

SMARTRONIC MA

	Enclosure	IP67	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.
	Control air pressure [bar] T [°C]	2 - 7 ≥ -20 - ≤ +80	
http://shop.ksb.com/catalog/k0/en/product/ES000461			

SMARTRONIC AS-i

	Enclosure	IP67	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.
	Control air pressure [bar] T [°C]	3 - 8 ≥ -20 - ≤ +80	
http://shop.ksb.com/catalog/k0/en/product/ES000874			

Intelligent positioners

SMARTRONIC PC

	Enclosure Control air pressure [bar] T [°C]	IP67 3 - 8 ≥ -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 All applications in water engineering, energy engineering, and industry.	
http://shop.ksb.com/catalog/k0/en/product/E5000873				

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