

## The Range of Valves **2016**



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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 140 years' experience
- Present in more than 100 countries
- More than 16,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists





## Single-source supplier: your partner for pumps, valves and service

We assist our customers right through the product life cycle

A comprehensive product range, short response times and tailored service and spare parts solutions – no other competitor offers a comparable range of products and services. In all phases of the product life cycle, we are on hand to ensure that our customers secure long-term value from their systems.

We offer our customers a variety of services and spare parts solutions around pumps, valves, and other rotating equipment – also for non-KSB products:

- Technical consultancy
- Installation and commissioning
- Services provided on-site and in our service centres
- Inspection and maintenance
- Maintenance inspection management
- Framework agreements such as TPM® Total Pump Management
- Efficiency analyses with the SES System Efficiency Service or PumpMeter
- Reverse engineering
- Inventory management
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning

Ready wherever you are:  
with a global service network and a 24-hour emergency service.



## 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 Europe-wide.

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.





## KSB Trademarks

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

**amri**

### 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.

**SISTO®**

### 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

### KSB's FluidFuture® energy efficiency concept




FluidFuture® is our comprehensive energy efficiency concept for your entire hydraulic system. Its aim is to improve your plant's efficiency. To make that reality, we've developed five interlocking modules. Together they enable us to identify and achieve savings right through the life cycle of your pumps and valves. You can maximise savings by optimising the overall efficiency of your plant, making it run more cost-effectively, efficiently and longer. FluidFuture® benefits your company, our environment and generations to come.





More information at [www.ksb.de/fluidfuture](http://www.ksb.de/fluidfuture)

### 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 27 the symbol  in conjunction with the relevant letter indicates the actuator type(s) available.

-  m = manual (lever, handwheel, etc.)
-  e = electric actuator
-  p = pneumatic actuator
-  h = hydraulic actuator

### Trademark rights

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## Valves

Design/Application	Type series	Page	FluidFuture	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	27		■		■		■		
	BOA-Compact	27		■		■		■		
	BOA-Compact EKB	27		■		■		■		
	BOA-W	27		■	■	■		■		
Bellows-type globe valves to DIN/EN	BOA-H	28	■			■	■	■		
	BOA-H/HE/HV/HEV	28	■	■		■	■	■		
	NORI 40 ZXLBV/ZXSBV	28				■	■	■		
	NORI 40 ZXLB/ZXSB	28		■		■	■	■		
	NORI 40 ZYLB/ZYSB	29	■			■	■	■		
	BOACHEM-ZXAB	29		■		■	■	■		
Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	29		■		■	■			■
	ECOLINE GLB 800	29		■		■	■			■
Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	30				■	■	■		
	NORI 40 ZXLF/ZXSf	30		■		■	■	■		
	NORI 160 ZXL/ZXS	30				■	■			
	NORI 160 ZXLF/ZXSf	30		■		■	■			
	NORI 320 ZXLF/ZXSf	30		■		■	■			
	NORI 320 ZXSV	31		■		■	■			
	NORI 500 ZXSV	31		■		■	■			
	NORI 500 ZXLR/ZXSR	31		■		■	■			
	BOACHEM-ZXA	31				■		■		
	ECOLINE VA 16	31				■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	32		■		■	■			
	ECOLINE GLF 150-600	32		■		■	■			
	ECOLINE GLF 800-2500	32		■		■	■			
	ECOLINE GLV 150-300	32		■		■	■			
	SICCA 150-600 GLC	32		■		■	■			
	SICCA 900-2500 GLC	33		■		■	■			
	SICCA 800-2500 GLF	33		■		■	■			
	WADA GL 150	33		■		■				
Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	33		■			■			
	NUCA-B	33		■			■			
	NUCA-F	34		■			■			
	NUCA-S	34		■			■			
	ZXNB	34		■			■			
	ZXNVB	34					■			
	ZYNB/ZYN	34		■			■			
Control systems to DIN/EN	BOA-Systronic	35	■	■				■		
Automated globe valves to DIN/EN	BOA-H Mat E	35		■		■	■	■		
	BOA-H Mat P	35		■		■	■	■		
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB	36		■	■	■		■		
	BOA-CVE H	36		■		■	■	■		
	BOA-CVP H	36		■		■	■	■		
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	37	■	■		■		■		
	BOA-Control SAR	37				■		■		
Level control valves to DIN/EN	CONDA-VLC	37			■					
Pressure reducing valves to DIN/EN	CONDA-VRC	38			■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	38			■					
Air valves to DIN/EN	BOAVENT-AVF	38			■					
	BOAVENT-SIF	38			■					
	BOAVENT-SVA	39			■					
	BOAVENT-SVF	39			■					
Vent valves for nuclear applications	SISTO-VentNA	39					■	■		
	SISTO-KRVNA	39					■			



Design/Application	Type series	Page	FluidFuture	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Start and stop control valves to DIN/EN	ZJSVA/ZXSVA	40		■		■	■			
Gate valves to DIN/EN	COBRA-SGP/SGO/SGF	40			■	■		■		
	COBRA-SMP	40			■	■		■		
	ECOLINE SP/SO	40			■	■		■		
	ECOLINE GT 40	41		■		■				
	STAAL 40 AKD/AKDS	41		■		■	■			
	STAAL 100 AKD/AKDS	41		■		■	■			
	AKG-A/AKGS-A	41		■		■	■			
	ZTS	41		■		■	■			
	ECOLINE GTB 800	42		■		■	■			■
Gate valves to ANSI/ASME	ECOLINE GTC 150-600	42		■		■	■			
	ECOLINE GTF 150-600	42		■		■	■			
	ECOLINE GTF 800-2500	42		■		■	■			
	ECOLINE GTV 150-300	42		■		■	■			
	SICCA 150-600 GTC	43		■		■	■			
	SICCA 900-2500 GTC	43		■		■	■			
	SICCA 800-1500 GTF	43		■		■	■			
	WADA GT 150	43		■		■				
	ZTN	43		■			■			
Gate valves for nuclear applications	UGS	44				■	■			
Body pressure relief valve	HERA-BD	44		■	■	■		■	■	
Knife gate valves to DIN/EN	HERA-BDS	44		■	■	■			■	
	HERA-BHT	44		■	■	■			■	
	HERA-SH	45		■	■	■			■	
Lift check valves to DIN/EN	BOA-RPL	45			■			■		
	BOA-RFV	45			■	■		■		
	BOA-RVK	45				■	■	■		
	BOA-R	45				■	■	■		
	NORI 40 RXL/RXS	46				■	■	■		
	NORI 160 RXL/RXS	46				■	■			
	NORI 320 RXL/RXS	46				■	■			
	NORI 500 RXLR/RXSR	46				■	■			
	RGS	46				■	■			
	BOACHEM-RXA	47				■		■		
	ECOLINE PTF 150-600	47				■	■			
Lift check valves to ANSI/ASME	ECOLINE PTF 800-2500	47				■	■			
	SICCA 800-2500 PCF	47				■	■			
	WADA SC 150	47				■				
	NUCA/-A/-ES, Type V	48					■			
Lift check valves for nuclear applications	RJN	48					■			
	RYN	48		■			■			
	COBRA-SCBS	48			■	■		■		
Swing check valves to DIN/EN	ECOLINE WT/WTI	49				■		■		
	STAAL 40 AKK/AKKS	49				■	■			
	STAAL 100 AKK/AKKS	49				■	■			
	AKR/AKRS	49				■	■			
	ZRS	49				■	■			
	SISTO-RSK/RSKS	50			■	■	■		■	
	SERIE 2000 PN 16	50	■		■	■		■		
	SERIE 2000 PN 25	50			■	■		■		
	SERIE 2000 Class 150	50			■	■				
	SERIE 2000 Class 300	50			■	■				

Design/Application	Type series	Page	FluidFuture	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	51				■	■			
	ECOLINE SCF 150-600	51				■	■			
	ECOLINE SCF 800-2500	51				■	■			
	ECOLINE SCV 150-300	51				■	■			
	SICCA 150-600 SCC	51				■	■			
	SICCA 900-2500 SCC	52				■	■			
	WADA SC 150	52				■				
Swing check valves for nuclear applications	SISTO-RSKNA	52					■			
	ZRN	52					■			
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	53			■	■	■			
Strainers to DIN/EN	BOA-S	53				■	■	■		
	NORI 40 FSL/FSS	53				■	■	■		
	BOACHEM-FSA	53				■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	54				■	■			
	ECOLINE FYF 800	54				■	■			
Centred-disc butterfly valves	BOAX-CBV13	54			■	■	■	■		
	BOAX-S	54	■	■				■		
	BOAX-SF	55	■	■				■		
	BOAXMAT-S	55		■				■		
	BOAXMAT-SF	55		■				■		
	BOAX-S Gaz	55	■					■		
	BOAX-SF Gaz	55	■					■		
	BOAX-B	56	■	■	■	■		■		
	BOAX-B Gaz	56	■		■	■		■		
	BOAX-B APSAD	56	■		■	■		■		
	BOAX-B DVGW	56	■		■	■		■		
	BOAX-B FM	57	■		■	■		■		
	BOAX-B Mat E	57	■	■	■	■		■		
	BOAX-B Mat P	57	■	■	■	■		■		
	ISORIA 10	57	■	■	■	■	■		■	
	ISORIA 16	58	■	■	■	■	■		■	
	ISORIA 20	58	■	■	■	■	■			
	ISORIA 20 UL	58	■	■		■				
	ISORIA 25	58	■	■	■	■	■	■		
	MAMMOUTH	58		■	■	■	■			
	KE PLASTOMER	59		■	■	■				
	KE ELASTOMER	59		■	■	■				
Double-offset butterfly valves	APORIS-DEB02	59			■	■	■			
	DANAIS 150	59		■	■	■	■	■	■	
	DANAIS MTII Class 150	60		■		■	■		■	
	DANAIS MTII Class 300	60		■		■	■		■	
	DANAIS 300T	60		■		■				
	DANAIS TBTII (Cryogenic) Side Entry	60		■		■				
	DANAIS TBTII (Cryogenic) Flanged	60		■		■				
	DANAIS TBTII (Cryogenic) AL	61		■		■				
Triple-offset butterfly valves	TRIODIS 150	61		■		■	■			
	TRIODIS 300	61		■		■	■			
	TRIODIS 600	61		■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	62		■			■			
Single-piece ball valves	MP-CI/MP-II	62		■	■					
	PROFIN-VT1	62			■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	62		■		■	■			■
	PROFIN-VT2L	63			■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	63		■		■	■			■
	PROFIN-SI3FIT-/SI3IT-/SI3LIT	63		■	■	■		■		
	PROFIN-VT3-/VT3L-/VT3F-/VT33L	63			■	■		■		

Design/Application	Type series	Page	FluidFuture	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	64		■	■	■	■		■	
	SISTO-KBS	64		■	■	■	■		■	
	SISTO-10	64		■	■	■	■			
	SISTO-10M	64		■	■	■	■	■		
	SISTO-16	64		■	■	■	■			
	SISTO-16S	65		■	■	■	■			
	SISTO-16RGA	65			■			■		
	SISTO-16TWA/HWA/DLU	65		■	■			■		
	SISTO-20	65		■		■	■			■
	SISTO-C	65		■	■					■
Diaphragm valves for nuclear applications	MXN	66		■			■			
	SISTO-20NA	66		■			■			
	SISTO-DrainNA	66					■			
Feed water bypass valves	ZJSVM/RJSVM	66		■		■	■			
Line blind valves	VTs	67				■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	67				■		■		
	ECOLINE GE4	67				■		■		



## Actuators

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Levers	CR/CM	68	■	■	■	■		
	S/SR/SP	68	■	■	■	■		
Manual gearboxes	MA	68		■		■		
	MN	68	■	■		■		
	MR	69	■	■	■	■	■	
Electric actuators	ACTELEC quarter-turn actuator (BERNARD CONTROLS, EZ and SQ type series)	69	■	■	■	■		
	ACTELEC quarter-turn actuator (BERNARD CONTROLS, LE type series)	69	■	■	■	■		
	ACTELEC quarter-turn actuator (AUMA, SQ type series)	69	■	■	■			
	ACTELEC multi-turn actuator (BERNARD CONTROLS)	69	■	■	■			
	ACTELEC multi-turn actuator (AUMA)	70	■	■	■			
	SISTO-LAE	70	■	■	■	■	■	
Hydraulic actuators	ACTO	70	■	■	■			
	DYNACTO	70	■	■	■			
	ENNACTO	71	■	■	■			
Pneumatic actuators	ACTAIR	71	■	■	■			
	ACTAIR-B	71	■	■		■		
	DYNACTAIR	72	■	■	■			
	DYNACTAIR-B	72	■	■		■		
	SISTO-LAD	72	■	■	■	■	■	
	SISTO-LAP	72	■	■	■	■	■	
	SISTO-C LAP	73						■
Control accessories	RMD	73	■	■	■	■		
	DUALIS	73	■		■			

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	74	■	■	■			
	AMTROBOX EEx ia	74	■	■	■			
	AMTROBOX ATEX Zone 22	74	■	■	■			
	AMTROBOX C	74	■	■	■	■		
	AMTROBOX M	74	■	■	■	■		
	AMTROBOX R	75	■	■	■			
	AMTROBOX R EEx ia	75	■	■	■			
	AMTROBOX R Ex d	75	■	■	■			
	AMTROBOX S	75	■	■	■			
ON/OFF valve controllers	AMTRONIC	76	■	■	■			
	AMTRONIC Ex ia	76	■	■	■			
Positioners	SMARTRONIC MA	76	■	■	■			
	SMARTRONIC AS-I	76	■	■	■			
Intelligent positioners	SMARTRONIC PC	77	■	■	■			

## Fluids handled

	BOA-SuperCompact BOA-Compact BOA-Compact EKB BOA-W	BOA-H BOA-H/HE/HV/HEV NORI 40 ZXLBV/ZXSBV NORI 40 ZXLB/ZXSB NORI 40 ZYLB/ZYSB BOACHEM-ZXAB	ECOLINE GLB 150-600 ECOLINE GLB 800	NORI 40 ZXL/ZXS NORI 40 ZXL/ZXS NORI 160 ZXL/ZXS NORI 160 ZXL/ZXS NORI 320 ZXL/ZXS NORI 320 ZXS NORI 500 ZXS NORI 500 ZXL/ZXS BOACHEM-ZXA ECOLINE VA 16	SICCA 150-600 GLC SICCA 900-2500 GLC SICCA 800-2500 GLF ECOLINE GLC 150-600 ECOLINE GLF 150-600 ECOLINE GLF 800-2500 ECOLINE GLV 150-300 WADA GL 150
Abrasive fluids					
Waste water with faeces					
Waste water without faeces					
Aggressive fluids					
Inorganic fluids					
Activated sludge					
Brackish water					
Service water					
Steam					
Distillate					
Explosive fluids					
Digested sludge					
Solids-laden fluids					
Solids (ore, sand, gravel, ash)					
Flammable fluids					
River, lake and groundwater					
Liquefied gas					
Fluids containing gas					
Gases					
Harmful fluids					
Toxic fluids					
High-temperature hot water					
Heating water					
Highly aggressive fluids					
Condensate					
Corrosive fluids					
Valuable fluids					
Fuels					
Cooling water					
Highly volatile fluids					
Fire-fighting water					
Solvents					
Seawater					
Fluids containing mineral oils					
Oils					
Organic fluids					
Polymerising/crystallising fluids					
Radioactive fluids					
Cleaning agents					
Raw sludge					
Lubricants					
Grey water					
Brine					
Feed water					
Dipping paints					
Drinking water					
Vacuum					
Thermal oils					
Wash water					

## Fluids handled

[illegible]



## Fluids handled

		COBRA-SGP/SGO/SGF	COBRA-SMP	ECOLINE SP/50	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS		ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800-2500	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-2500 GTC	SICCA 800-1500 GTF	WADA GT 150		ZTN	HERA-BD	HERA-BDS	HERA-BHT	HERA-SH	UGS	BOA-RPL	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS				
Abrasive fluids	Gate valves to DIN/EN									Gate valves to ANSI/ASME											Gate valves for nuclear applications			■	■										
Waste water with faeces																									■	■	■								
Waste water without faeces																									■	■	■								
Aggressive fluids																									■	■	■								
Inorganic fluids																									■	■	■								
Activated sludge																									■	■	■								
Brackish water																									■	■	■								
Service water		■	■	■							■		■	■	■	■	■	■	■	■		■				■	■	■							
Steam					■	■	■	■	■		■		■	■	■	■	■	■	■	■		■								■					
Distillate						■	■	■	■		■		■																■						
Explosive fluids					■	■	■	■	■		■																■								
Digested sludge																							■	■	■										
Solids-laden fluids																							■	■	■										
Solids (ore, sand, gravel, ash)																																			
Flammable fluids																																			
River, lake and groundwater	■																						■												
Liquefied gas																																			
Fluids containing gas					■	■	■	■	■		■	■	■	■	■	■	■	■	■			■					■								
Gases					■	■	■	■	■		■	■	■	■	■	■	■	■	■			■				■									
Harmful fluids											■											■													
Toxic fluids											■											■													
High-temperature hot water			■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■			■					■								
Heating water			■	■									■			■		■				■						■							
Highly aggressive fluids											■																								
Condensate					■	■					■					■	■	■																	
Corrosive fluids											■														■	■									
Valuable fluids											■																								
Fuels											■																								
Cooling water	■	■	■										■			■		■				■						■	■	■					
Highly volatile fluids											■																								
Fire-fighting water																■		■																	
Solvents																																			
Seawater																																			
Fluids containing mineral oils	■										■					■		■											■	■	■				
Oils	■										■																			■	■				
Organic fluids																																			
Polymerising/crystallising fluids																																			
Radioactive fluids																						■													
Cleaning agents																																			
Raw sludge																																			
Lubricants																■			■			■			■	■									
Grey water	■															■		■				■			■			■							
Brine																																			
Feed water					■	■	■	■	■		■	■	■	■	■	■	■	■	■								■			■	■	■			
Dipping paints																																			
Drinking water	■	■																																	
Vacuum																■																			
Thermal oils					■	■					■							■													■	■			
Wash water																■		■																	

## Fluids handled

		NORI 160 RXL/RXS	NORI 320 RXL/RXS	NORI 500 RXL/RXS	RGS	BOACHEM-RXA		ECOLINE PTF 150-600	ECOLINE PTF 800-2500	SICCA 800-2500 PCF	WADA SC 150		NUCA/-A/-ES, Type V	RJN	RYN		COBRA-SCBS	ECOLINE WTW/TI	STAAL 40 AKK/AKS	STAAL 100 AKK/AKS	AKR/AKRS	ZRS	SISTO-RSK/RSKS	SERIE 2000 PN 16	SERIE 2000 PN 25	SERIE 2000 Class 150	SERIE 2000 Class 300		ECOLINE SCC 150-600	ECOLINE SCF 150-600	ECOLINE SCF 800-2500	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-2500 SCC	WADA SC 150			
Abrasive fluids	Lift check valves to DIN/EN						Lift check valves to ANSI/ASME																■	■	■	■	■											
Waste water with faeces																																						
Waste water without faeces																																						
Aggressive fluids						■																			■													
Inorganic fluids																									■													
Activated sludge																																						
Brackish water																																						
Service water												■																										
Steam		■	■	■	■	■		■				■			■	■	■									■	■	■	■	■	■							
Distillate																																						
Explosive fluids		■	■	■	■	■																																
Digested sludge																																						
Solids-laden fluids																																						
Solids (ore, sand, gravel, ash)																																						
Flammable fluids		■	■	■	■	■																																
River, lake and groundwater																																						
Liquefied gas																																						
Fluids containing gas		■	■	■	■	■				■			■	■	■																							
Gases		■	■	■	■	■							■	■	■																							
Harmful fluids		■	■	■	■	■							■	■	■																							
Toxic fluids		■	■	■	■	■							■	■	■																							
High-temperature hot water		■	■	■	■	■				■			■	■	■																							
Heating water										■																												
Highly aggressive fluids						■																																
Condensate						■				■																												
Corrosive fluids						■																																
Valuable fluids		■	■	■	■	■																																
Fuels																																						
Cooling water										■			■	■	■																							
Highly volatile fluids		■	■	■	■	■																																
Fire-fighting water										■																												
Solvents																																						
Seawater																																						
Fluids containing mineral oils		■	■	■	■	■				■																												
Oils		■	■	■	■	■				■																												
Organic fluids																																						
Polymerising/crystallising fluids		■	■	■	■	■																																

## Fluids handled

	SISTO-RSKNA ZRN	COBRA-TDC01/03	BOA-S NORI 40 FSL/FSS BOACHEM-FSA	ECOLINE FYC 150-600 ECOLINE FYF 800	BOAX-CBV13 BOAX-S BOAX-SF BOAXMAT-S BOAXMAT-SF BOAX-B BOAX-B Gaz BOAX-B APSAD BOAX-B DVGW BOAX-B FM BOAX-B Mat E BOAX-B Mat P ISORIA 10 ISORIA 16 ISORIA 20 ISORIA 20 UL ISORIA 25 MAMMOUTH KE Plastomer KE Elastomer	APORIS-DEB02
Abrasive fluids	■					
Waste water with faeces						
Waste water without faeces						
Aggressive fluids						
Inorganic fluids						
Activated sludge						
Brackish water						
Service water		■				
Steam	■		■	■	■	
Distillate						
Explosive fluids			■			
Digested sludge			■			
Solids-laden fluids			■			
Solids (ore, sand, gravel, ash)			■			
Flammable fluids			■			
River, lake and groundwater	■	■				
Liquefied gas						
Fluids containing gas	■		■	■		
Gases	■		■	■		
Harmful fluids			■			
Toxic fluids	■		■			
High-temperature hot water	■		■	■		
Heating water			■			
Highly aggressive fluids						
Condensate			■			
Corrosive fluids			■			
Valuable fluids			■			
Fuels						
Cooling water	■	■				
Highly volatile fluids			■			
Fire-fighting water						
Solvents						
Seawater	■					
Fluids containing mineral oils			■	■		
Oils			■	■		
Organic fluids						
Polymerising/crystallising fluids						
Radioactive fluids	■					
Cleaning agents						
Raw sludge						
Lubricants						
Grey water	■					
Brine						
Feed water			■	■		
Dipping paints						
Drinking water						
Vacuum						
Thermal oils			■			
Wash water						



## Fluids handled

		DANA'S 150	DANA'S MTII Class 150	DANA'S MTII Class 300	DANA'S 300T	DANA'S TBTH Side Entry	DANA'S TBTH Flanged	DANA'S TBTH AL		TRIODIS 150	TRIODIS 300	TRIODIS 600		CLOSS/A		MP-CI/MP-II	PROFIN-VT1		ECOLINE BLT 150-300	PROFIN-VT2L		ECOLINE BLC 1000	PROFIN-SI3FIT	PROFIN-SI3IT	PROFIN-SI3LIT	PROFIN-VT3	PROFIN-VT3L	PROFIN-VT3F	PROFIN-VT33L		SISTO-KB	SISTO-KBS	SISTO-10	SISTO-10M	SISTO-16	SISTO-16S							
Abrasive fluids	Double-offset butterfly valves								Triple-offset butterfly valves				Butterfly valves for nuclear applications	Single-piece ball valves				Two-piece ball valves			Three-piece ball valves									Soft-seated diaphragm valves to DIN/EN													
Waste water with faeces																																											
Waste water without faeces																																											
Aggressive fluids		■	■	■	■						■	■			■					■					■	■																	
Inorganic fluids																									■	■																	
Activated sludge																																											
Brackish water																																											
Service water																																											
Steam		■	■	■							■				■	■																											
Distillate																																											
Explosive fluids																																											
Digested sludge																																											
Solids-laden fluids		■	■	■							■	■			■																												
Solids (ore, sand, gravel, ash)		■	■	■							■	■			■																												
Flammable fluids		■	■	■	■						■	■			■																												
River, lake and groundwater																																											
Liquefied gas							■	■		■	■	■			■	■																											
Fluids containing gas																																											
Gases	■	■	■	■	■	■	■	■	■	■	■	■																															
Harmful fluids																																											
Toxic fluids	■	■	■						■		■	■																															
High-temperature hot water	■	■	■	■					■	■	■	■																															
Heating water																																											
Highly aggressive fluids	■																																										
Condensate																																											
Corrosive fluids	■	■	■	■	■				■	■	■	■																															
Valuable fluids																																											
Fuels	■	■	■	■	■				■	■	■	■																															
Cooling water																																											
Highly volatile fluids	■	■	■	■					■	■	■	■																															
Fire-fighting water																																											
Solvents																																											
Seawater																																											
Fluids containing mineral oils	■	■	■	■	■				■	■	■	■																															
Oils	■	■		■					■	■	■	■																															
Organic fluids																																											
Polymerising/crystallising fluids			■	■					■	■	■	■																															
Radioactive fluids	■	■	■						■	■	■	■																															
Cleaning agents	■																																										
Raw sludge																																											
Lubricants	■																																										
Grey water																																											
Brine	■																																										
Feed water																																											
Dipping paints																																											
Drinking water																																											
Vacuum	■	■		■					■	■	■	■																															
Thermal oils	■	■	■	■					■	■	■	■																															
Wash water																																											

## Fluids handled

[illegible]

## Applications

	Soft-seated globe valves to DIN/EN				Bellows-type globe valves to DIN/EN							Bellows-type globe valves to ANSI/ASME		Globe valves to DIN/EN with gland packing												Globe valves to ANSI/ASME with gland packing									
	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	BOA-H	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXS8V	NORI 40 ZXLB/ZXS8	NORI 40 ZYLB/ZYS8	BOACHEM-ZXAB	ECOLINE GLB 150-600	ECOLINE GLB 800	NORI 40 ZXLF/ZXS	NORI 40 ZXLF/ZXS F	NORI 160 ZXLF/ZXS	NORI 160 ZXLF/ZXS F	NORI 320 ZXLF/ZXS F	NORI 320 ZXS V	NORI 500 ZXS V	NORI 500 ZXLR/ZXS R	BOACHEM-ZXA	ECOLINE VA 16	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 800-2500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800-2500	ECOLINE GLV 150-300	WADA GL 150					
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																																			
HVAC systems																																			
Homogenisation																																			
Industrial recirculation systems																																			
Nuclear power stations																																			
Boiler feed applications																																			
Boiler recirculation																																			
Sewage treatment plants																																			
Air-conditioning systems																																			
Condensate transport																																			
Fossil-fuelled power stations																																			
Cooling circuits																																			
Paint shops																																			
Food and beverages industries																																			
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

[illegible]

## Applications

[illegible]

## Applications

[illegible]

Applications

	SISTO-RSKNA ZRN		COBRA-TDC01/03	BOA-S NORI 40 FSL/FSS BOACHEM-FSA	ECOLINE FYC 150-600 ECOLINE FYF 800	BOAX-CBV13 BOAX-S BOAX-SF BOAXMAT-S BOAXMAT-SF BOAX-B BOAX-B Gaz BOAX-B APSAD BOAX-B DVGW BOAX-B FM BOAX-B Mat E BOAX-B Mat P ISORIA 10 ISORIA 16 ISORIA 20 ISORIA 20 UL ISORIA 25 MAMMOUTH KE Plastomer KE Elastomer	APORIS-DEB02
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							
HVAC systems							
Homogenisation							
Industrial recirculation systems							
Nuclear power stations							
Boiler feed applications							
Boiler recirculation							
Sewage treatment plants							
Air-conditioning systems							
Condensate transport							
Fossil-fuelled power stations							
Cooling circuits							
Paint shops							
Food and beverages industries							
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

[illegible]






## Applications




	SISTO-16RGA	SISTO-16TWA/HWA/DLU	SISTO-20	SISTO-C	MXN	SISTO-20NA	SISTO-DrainNA	ZJSVM/RJSVM	VTS	ECOLINE GE1/GE2/GE3	ECOLINE GE4
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	■	■									
HVAC systems	■										
Homogenisation			■	■							
Industrial recirculation systems			■								
Nuclear power stations					■	■	■	■	■		
Boiler feed applications								■	■		
Boiler recirculation								■	■		
Sewage treatment plants											
Air-conditioning systems	■	■	■							■	■
Condensate transport			■	■							
Fossil-fuelled power stations			■					■	■		
Cooling circuits	■	■	■							■	■
Paint shops			■								
Food and beverages industries				■						■	■
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			■	■					■		

## Soft-seated globe valves to DIN/EN




### BOA-SuperCompact

	PN DN T [°C]	6/10/16 20 - 200 -10 to +120	<b>Description:</b> Globe valve to DIN/EN with wafer-type body, super-compact DN face-to-face length to EN 558/94, slanted seat, bonnetless; with flange alignment holes for centring, dead-end service and downstream dismantling; insulating cap with anti-condensation feature as standard, position indicator, soft main and back seat; maintenance-free, full insulation possible.  <b>Applications:</b> 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.	
 e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000312">http://shop.ksb.com/catalog/k0/en/product/ES000312</a>	




### BOA-Compact

	PN DN T [°C]	6/16 15 - 200 -10 to +120	<b>Description:</b> Globe valve to DIN/EN with flanged ends, short face-to-face length to EN 558/14, slanted seat, bonnetless, 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.  <b>Applications:</b> 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.	
 e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000310">http://shop.ksb.com/catalog/k0/en/product/ES000310</a>	

### BOA-Compact EKB




	PN DN T [°C]	10/16 15 - 200 -10 to +80	<b>Description:</b> 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, bonnetless, EPDM-encapsulated throttling plug, position indicator, locking device, travel stop, soft main and back seat; maintenance-free (PN 10 DVGW-approved).  <b>Applications:</b> 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.	
 e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000311">http://shop.ksb.com/catalog/k0/en/product/ES000311</a>	

### BOA-W

	PN DN T [°C]	6/16 15 - 200 -10 to +120	<b>Description:</b> Globe valve to DIN/EN with flanged ends, standard face-to-face length to EN 558/1, slanted seat, bonnetless, 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.  <b>Applications:</b> 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.	
 e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000309">http://shop.ksb.com/catalog/k0/en/product/ES000309</a>	




## Bellows-type globe valves to DIN/EN

### BOA-H

	PN	16/25	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged ends, with shut-off valve 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.  <b>Applications:</b> 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.	
	DN	15 - 350		
	T [°C]	-10 to +350		
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000328">http://shop.ksb.com/catalog/k0/en/product/ES000328</a>	






### BOA-H/HE/HV/HEV




	PN	25/40	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, with shut-off valve disc or throttling plug, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> In industrial plants, building services, power stations and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	10 - 350		
	T [°C]	-10 to +450		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000329">http://shop.ksb.com/catalog/k0/en/product/ES000329</a>	



### NORI 40 ZXLBV/ZXSBV





	PN	25/40	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, tapered shut-off valve 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.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +450		
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000334">http://shop.ksb.com/catalog/k0/en/product/ES000334</a>	

### NORI 40 ZXLB/ZXSB




	PN	25/40	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, tapered shut-off valve 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.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +450		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000332">http://shop.ksb.com/catalog/k0/en/product/ES000332</a>	



## NORI 40 ZYLB/ZYSB




	PN	25/40	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged or butt weld ends, Y-valve, replaceable throttling plug (up to DN 100) or shut-off valve 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.  <b>Applications:</b> In heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.	
	DN	15 - 300		
	T [°C]	-10 to +450		
				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000521">http://shop.ksb.com/catalog/k0/en/product/ES000521</a>	

## BOACHEM-ZXAB




	PN	10 - 40	<b>Description:</b> Bellows-type globe valve to DIN/EN with flanged ends, body made of stainless steel, with replaceable shut-off valve disc or throttling plug.  <b>Applications:</b> Process engineering, industry, building services, food and beverages industries, for aggressive fluids. Other fluids on request.	
	DN	15 - 200		
	T [°C]	-10 to +400		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000337">http://shop.ksb.com/catalog/k0/en/product/ES000337</a>	

## Bellows-type globe valves to ANSI/ASME

### ECOLINE GLB 150-600




	Class	150 - 600	<b>Description:</b> 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.  <b>Applications:</b> Petrochemical plants, chemical plants, power stations, process engineering and general industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.	
	NPS	2" - 12"		
	T [°C]	0 to +427		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000901">http://shop.ksb.com/catalog/k0/en/product/ES000901</a>	

### ECOLINE GLB 800




	Class	800	<b>Description:</b> Globe valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), forged 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.  <b>Applications:</b> Petrochemical plants, chemical plants, power stations, process engineering and general industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.	
	NPS	½" - 2"		
	T [°C]	0 to +427		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000902">http://shop.ksb.com/catalog/k0/en/product/ES000902</a>	

## Globe valves to DIN/EN with gland packing




### NORI 40 ZXL/ZXS

	PN	25/40	<b>Description:</b> Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> In 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 to +450		
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000339">http://shop.ksb.com/catalog/k0/en/product/ES000339</a>	




### NORI 40 ZXLF/ZXSf

	PN	25/40	<b>Description:</b> Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve 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.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +450		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000341">http://shop.ksb.com/catalog/k0/en/product/ES000341</a>	




### NORI 160 ZXL/ZXS

	PN	63 - 160	<b>Description:</b> Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +550		
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000343">http://shop.ksb.com/catalog/k0/en/product/ES000343</a>	

### NORI 160 ZXLF/ZXSf

	PN	63 - 160	<b>Description:</b> Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +550		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000345">http://shop.ksb.com/catalog/k0/en/product/ES000345</a>	

### NORI 320 ZXLF/ZXSf

	PN	250 - 320	<b>Description:</b> Globe valve to DIN/EN with flanged or butt weld ends, with gland packing, with shut-off valve disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.  <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	65 - 200		
	T [°C]	-10 to +550		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000348">http://shop.ksb.com/catalog/k0/en/product/ES000348</a>	



## NORI 320 ZXSV



PN 250 - 320  
DN 10 - 50  
T [°C] -10 to +580

**Description:**  
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

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



● e, m, p

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

## NORI 500 ZXSV



PN 250 - 500  
DN 10 - 65  
T [°C] -10 to +650

**Description:**  
Globe valve to DIN/EN with butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

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



● e, m, p

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

## NORI 500 ZXLR/ZXSR



PN 250 - 500  
DN 10 - 50  
T [°C] -10 to +580

**Description:**  
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, integrated position indicator, back seat, seat/disc interface made of Stellite.

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



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000351>

## BOACHEM-ZXA



PN 10 - 40  
DN 15 - 300  
T [°C] -10 to +400

**Description:**  
Globe valve to DIN/EN with flanged ends, body made of stainless steel, with gland packing, rotating stem, with shut-off valve disc or throttling plug.

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



● m

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

## ECOLINE VA 16



PN 16  
DN 15 - 250  
T [°C] -10 to +300

**Description:**  
Globe valve to DIN/EN with flanged ends, body made of cast steel, with gland packing, straight-way pattern, rotating stem, with shut-off valve disc or throttling plug.

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





● e, m



<http://shop.ksb.com/catalog/k0/en/product/ES000673>

## Globe valves to ANSI/ASME with gland packing



### ECOLINE GLC 150-600

	Class	150 - 600	<b>Description:</b> 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. <b>Applications:</b> Refineries, power stations, process engineering and general industrial applications; water, steam, oil, gas. Other applications on request.	
	NPS T [°C]	2" - 12" -29 to +816		
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000775">http://shop.ksb.com/catalog/k0/en/product/ES000775</a>	



### ECOLINE GLF 150-600

	Class	150 - 600	<b>Description:</b> 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. <b>Applications:</b> Industrial applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS T [°C]	½" - 2" -29 to +816		
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000426">http://shop.ksb.com/catalog/k0/en/product/ES000426</a>	



### ECOLINE GLF 800-2500

	Class	800 - 2500	<b>Description:</b> 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 (Class 800) or welded bonnet (Class 1500 and 2500), outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.	
	NPS	½" - 2"		
T [°C]			-29 to +538	
			<b>Applications:</b> Industrial applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000796">http://shop.ksb.com/catalog/k0/en/product/ES000796</a>	



### ECOLINE GLV 150-300

	Class	150 - 300	<b>Description:</b> 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. <b>Applications:</b> Fine chemicals, food industry, general industry. For water, steam, gas and other fluids. Other applications on request.	
	NPS T [°C]	2" - 12" -29 to +816		
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000584">http://shop.ksb.com/catalog/k0/en/product/ES000584</a>	



### SICCA 150-600 GLC

	Class	150 - 600	<b>Description:</b> Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rotating, rising stem, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel. <b>Applications:</b> Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.	
	NPS T [°C]	2" - 10" 0 to +593		
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000484">http://shop.ksb.com/catalog/k0/en/product/ES000484</a>	



## SICCA 900-2500 GLC

	Class NPS T [°C]	900 - 2500 2" - 8" 0 to +650	<b>Description:</b> 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. <b>Applications:</b> Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000485">http://shop.ksb.com/catalog/k0/en/product/ES000485</a>	

## SICCA 800-2500 GLF



	Class NPS T [°C]	800 - 2500 ½" - 2" 0 to +650	<b>Description:</b> Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted bonnet (Class 800) or welded bonnet (Class 1500/2500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of 13 % chrome steel, Stellite hard-faced, with graphite gasket and gland packing. Available in carbon steel and alloy steel. <b>Applications:</b> Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000480">http://shop.ksb.com/catalog/k0/en/product/ES000480</a>	

## WADA GL 150



	Class NPS T [°C]	150 ½" - 12" -196 to +100	<b>Description:</b> Globe valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, Stellite hard-faced valve disc and back seat, with graphite or PTFE gland packing, stainless steel/graphite gaskets. <b>Applications:</b> Natural gas liquefaction and other liquefied gases.	
e, m, p, h			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000901">http://shop.ksb.com/catalog/k0/en/product/ES000901</a>	

## Globe valves for nuclear applications



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

	P <sub>max</sub> [bar] DN T [°C]	max. 320 10 - 50 max. +365	<b>Description:</b> Globe valve for nuclear applications, with butt weld or socket weld ends, gland packing or bellows, replaceable seat (NUCA-ES), straight-way pattern, made of steel, stainless steel or nickel. <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000452">http://shop.ksb.com/catalog/k0/en/product/ES000452</a>	



### NUCA-B

	P <sub>max</sub> [bar] DN T [°C]	max. 120 10 - 50 max. +300	<b>Description:</b> Bellows-type globe valve for nuclear applications, with butt weld ends, designed to meet safety-related requirements, straight-way pattern, made of steel or stainless steel, integrity maintained after limit switch failure. <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000453">http://shop.ksb.com/catalog/k0/en/product/ES000453</a>	



## NUCA-F

	$P_{\max}$ [bar]	max. 210	<b>Description:</b> Bellows-type globe valve for nuclear applications, with butt weld or socket weld ends, designed to meet safety-related requirements, straight-way pattern, made of steel or stainless steel, integrity maintained after limit switch failure.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	10 - 50		
	T [°C]	max. +365		
e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000454">http://shop.ksb.com/catalog/k0/en/product/ES000454</a>	



## NUCA-S

	$P_{\max}$ [bar]	max. 210	<b>Description:</b> Bellows-type globe valve for nuclear applications, with butt weld ends, designed to meet safety-related requirements, straight-way pattern, made of steel or stainless steel, operability maintained after limit switch failure.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	10 - 50		
	T [°C]	max. +365		
e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000330">http://shop.ksb.com/catalog/k0/en/product/ES000330</a>	



## ZXNB

	$P_{\max}$ [bar]	max. 210	<b>Description:</b> Bellows-type globe valve for nuclear applications, with butt weld ends, designed to meet safety-related requirements, in straight-way or angle pattern, or as two-way valve, made of steel or stainless steel.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	65 - 300		
	T [°C]	max. +365		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000458">http://shop.ksb.com/catalog/k0/en/product/ES000458</a>	

## ZXNVB




	$P_{\max}$ [bar]	max. 210	<b>Description:</b> Globe valve for nuclear applications, with butt weld or socket weld ends, gland packing or bellows, straight-way pattern, made of steel or stainless steel.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	4 - 25		
	T [°C]	max. +365		
m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000457">http://shop.ksb.com/catalog/k0/en/product/ES000457</a>	

## ZYNB/ZYN

	$P_{\max}$ [bar]	max. 62	<b>Description:</b> Globe valve for nuclear applications, with butt weld ends, designed to meet safety-related requirements, with gland packing or bellows, Y-valve, made of cast stainless steel.  <b>Applications:</b> Residual heat removal systems in nuclear applications	
	DN	300 - 400		
	T [°C]	max. +365		
e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000331">http://shop.ksb.com/catalog/k0/en/product/ES000331</a>	




## Control systems to DIN/EN

### BOA-Systronic




	PN DN T [°C]	6/10/16 20 - 200 +20 to +120	<p><b>Description:</b> Energy-saving system for the combined operation of pump and control valve. The system provides an all-in solution designed to access untapped hydraulic savings potential. Irrespective of the pump technology used, it allows savings of 50 % in pump electricity while also reducing primary energy costs thanks to lower return flow temperatures. The system can be combined with all control systems and pumps with a 0-10 V control input. Straightforward integration in automation systems with optional BACnet gateway.</p> <p><b>Applications:</b> Supply temperature control in HVAC installations with volume flow rates of 0.5 to 185 m³/h and temperature differentials of 3 to 30 °K. Threaded (DN 20) or flanged (DN 25 to DN 200) line connections; suitable for upgrading installed systems and new systems, for connection to all types of heat generators (boiler systems or district heating), all main feed manifolds, all control systems, all supply temperatures.</p>		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000494">http://shop.ksb.com/catalog/k0/en/product/ES000494</a>					

## Automated globe valves to DIN/EN

### BOA-H Mat E

	PN DN T [°C]	16/25 20 - 150 -10 to +350	<p><b>Description:</b> Automated globe valve to DIN/EN with flanged ends, with electric actuators 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).</p> <p><b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.</p>	
<div> e</div> <div><a href="http://shop.ksb.com/catalog/k0/en/product/ES000801">http://shop.ksb.com/catalog/k0/en/product/ES000801</a></div>				




### BOA-H Mat P

	PN DN T [°C]	16/25 20 - 150 -10 to +350	<p><b>Description:</b> Automated globe valve to DIN/EN with flanged ends, with pneumatic actuators 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).</p> <p><b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.</p>	
<div> p</div> <div><a href="http://shop.ksb.com/catalog/k0/en/product/ES000885">http://shop.ksb.com/catalog/k0/en/product/ES000885</a></div>				






Control valves to DIN/EN




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

	PN	6/10/16	<b>Description:</b> 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 at 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 with actuating forces from 1200 N to 14,000 N; electronic configuration of valve characteristic, kvs value, control signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request. <b>Applications:</b> Hot-water heating systems up to 120 °C. Venting 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.	
	DN	15 - 200		
	T [°C]	-10 to +120		
 e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000326">http://shop.ksb.com/catalog/k0/en/product/ES000326</a>	

BOA-CVE H





	PN	16/25	<b>Description:</b> Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at kvs values of 2.5 to 340 m³/h and closing pressures of up to 25 bar; all internal parts are easy to replace without special tools, including the reversible seat; reduced noise level by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with electric actuator. <b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.	
	DN	20 - 150		
	T [°C]	-10 to +350		
 e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000772">http://shop.ksb.com/catalog/k0/en/product/ES000772</a>	

BOA-CVP H




	PN	16/25	<b>Description:</b> Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at kvs values of 2.5 to 340 m³/h and closing pressures of up to 25 bar; all internal parts are easy to replace without special tools, including the reversible seat; reduced noise level by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with pneumatic actuator. <b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.	
	DN	20 - 150		
	T [°C]	-10 to +350		
 p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000662">http://shop.ksb.com/catalog/k0/en/product/ES000662</a>	

## Balancing and shut-off valves to DIN/EN

### BOA-Control/BOA-Control IMS



	PN 16 DN 15 - 350 T [°C] -10 to +120	<b>Description:</b> BOA-Control IMS: Balancing valve to DIN/EN with flanged ends, bonnetless, throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; with ultrasonic sensor system for measuring flow rate and temperature, sensors not in contact with fluid handled, constant measurement accuracy when combined with BOATRONIC MS or BOATRONIC MS-420, independent of minimum differential pressures. <b>BOA-Control:</b> Balancing valve to DIN/EN with flanged ends, bonnetless, throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; prepared for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, constant measurement accuracy when combined with BOATRONIC MS, independent of minimum differential pressures. <b>Applications:</b> Hot-water heating systems up to 120 °C. Cold water for air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron.	 
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000323">http://shop.ksb.com/catalog/k0/en/product/ES000323</a>		

### BOA-Control SAR

	PN 16 DN 10 - 50 T [°C] -25 to +150	<b>Description:</b> 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. <b>Applications:</b> Hot-water heating systems up to 150 °C. Air-conditioning systems. Other fluids on request.	
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000324">http://shop.ksb.com/catalog/k0/en/product/ES000324</a>		

## Level control valves to DIN/EN

### CONDA-VLC

	PN 16 DN 25 - 300 T [°C] -10 to +70	<b>Description:</b> 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. <b>Applications:</b> In water supply systems, industry and building services. For controlling water levels.	
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000835">http://shop.ksb.com/catalog/k0/en/product/ES000835</a>		

## Pressure reducing valves to DIN/EN

### CONDA-VRC



PN 16/25/40  
DN 15 - 150  
T [°C] -10 to +70

**Description:**  
Direct-acting pressure reducing valve to DIN/EN with flanged ends (DN 50-150) or threaded ends (DN 15-50), body made of nodular cast iron; valve disc, stem and seat made of stainless steel.

**Applications:**  
In water supply systems for controlling downstream pressure, in fire-fighting systems for reducing excess pressure caused by pumps, in irrigation system as an efficient protection against water hammer, in industry and building services.



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

## Pressure sustaining valves to DIN/EN

### CONDA-VSM



PN 16/25/40  
DN 50 - 150  
T [°C] -10 to +70

**Description:**  
Direct-acting pressure sustaining valve to DIN/EN with flanged ends, body made of nodular cast iron, valve disc, stem and seat made of stainless steel.

**Applications:**  
In water supply systems for controlling upstream pressure, in irrigation or fire-fighting systems, industry and building services.



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

## Air valves to DIN/EN

### BOAVENT-AVF



PN 16  
DN 50 - 300  
T [°C] -10 to +120

**Description:**  
Automatic air valve with two floats and three functions. Flanged ends, body made of nodular cast iron, double-chamber design with ABS floats. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

**Applications:**  
Water supply system, clean water, irrigation.



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

### BOAVENT-SIF



PN 16  
DN 25 - 200  
T [°C] -10 to +70

**Description:**  
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of stainless steel, single-chamber design with polypropylene float. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

**Applications:**  
Water supply system, clean water, irrigation.



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

## BOAVENT-SVA



PN 16  
DN 50 - 200  
T [°C] -10 to +70

**Description:**  
Automatic air valve with one float and three functions. With flanged or threaded ends, body made of nodular cast iron, single-chamber design with polypropylene float. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

**Applications:**  
Water supply, waste water, untreated waste water.



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

## BOAVENT-SVF



PN 16/25/40  
DN 25 - 300  
T [°C] -10 to +70

**Description:**  
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of nodular cast iron (PN 16-40) or carbon steel (PN 64), single-chamber design with polypropylene float. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

**Applications:**  
Water supply system, clean water, irrigation.



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

## Vent valves for nuclear applications

## SISTO-VentNA



PN 16  
DN 15  
T [°C] max. +100

**Description:**  
Vent valve for nuclear applications, with butt weld ends, soft-seated.

**Applications:**  
Heating systems, air-conditioning systems.



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

## SISTO-KRVNA



PN 16  
DN 25 - 100  
T [°C] max. +100

**Description:**  
Vent valve for nuclear applications, with flanged or butt weld ends, soft-seated, with floating ball.



**Applications:**  
Tank venting, drainage systems.



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



## Start and stop control valves to DIN/EN

### ZJSVA/ZXSVA



	PN DN T [°C]	Approx. 600 bar 65/60 - 250/125 -10 to +650	<b>Description:</b> Start and stop control valve to DIN/EN, with butt weld ends, pressure seal design, billet-forged body, seat/disc interface made of wear and corrosion resistant Stellite, single-piece stem and throttling plug assembly for high differential pressures. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000428">http://shop.ksb.com/catalog/k0/en/product/ES000428</a>	

## Gate valves to DIN/EN



### COBRA-SGP/SGO/SGF

	PN DN T [°C]	16/25 25 - 600 -10 to +70	<b>Description:</b> Gate valve to DIN/EN with flanged ends, elastomer-coated wedge, bolted bonnet, rotating stem, inside screw, body made of nodular cast iron. <b>Applications:</b> Water supply and treatment systems, air-conditioning systems.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000828">http://shop.ksb.com/catalog/k0/en/product/ES000828</a>	

### COBRA-SMP



	PN DN T [°C]	16 40 - 300 -10 to +110	<b>Description:</b> 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. <b>Applications:</b> Water supply systems, heating systems, air-conditioning systems, general industry, building services.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000829">http://shop.ksb.com/catalog/k0/en/product/ES000829</a>	

### ECOLINE SP/SO

	PN DN T [°C]	10/16/25 40 - 600 -10 to +110	<b>Description:</b> 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. <b>Applications:</b> Water supply systems, heating systems, air-conditioning systems, general industry, water engineering, building services.	
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000654">http://shop.ksb.com/catalog/k0/en/product/ES000654</a>	





## ECOLINE GT 40

	PN	10-40	<b>Description:</b> Gate valve to DIN/EN with flanged 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. <b>Applications:</b> In industrial plants, process engineering and shipbuilding. For water, steam, gas, oil and other non-aggressive fluids. Other fluids on request.	
	DN	50 - 600		
	T [°C]	-10 to +400		
e, m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000676">http://shop.ksb.com/catalog/k0/en/product/ES000676</a>	



## STAAL 40 AKD/AKDS

	PN	10 - 40	<b>Description:</b> Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of forged or welded steel 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. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	50 - 600		
	T [°C]	-10 to +450		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000469">http://shop.ksb.com/catalog/k0/en/product/ES000469</a>	



## STAAL 100 AKD/AKDS

	PN	63 - 100	<b>Description:</b> Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of forged or welded steel 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. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	50 - 500		
	T [°C]	-10 to +550		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000369">http://shop.ksb.com/catalog/k0/en/product/ES000369</a>	

## AKG-A/AKGS-A



	PN	63 - 160	<b>Description:</b> Gate valve to DIN/EN with flanged or butt weld ends, 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. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	80 - 300		
	T [°C]	-10 to +550		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000371">http://shop.ksb.com/catalog/k0/en/product/ES000371</a>	

## ZTS



	PN	Approx. 600 bar	<b>Description:</b> 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. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	Class	4500		
	DN	50 - 800		
	NPS	2" - 32"		
	T [°C]	-10 to +650		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000375">http://shop.ksb.com/catalog/k0/en/product/ES000375</a>	

## Gate valves to ANSI/ASME



### ECOLINE GTB 800

	Class NPS T [°C]  800 ½" - 2" 0 to +427	<b>Description:</b> Gate valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), forged 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. <b>Applications:</b> Petrochemical plants, chemical plants, power stations, process engineering and general industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.	
e, m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000903">http://shop.ksb.com/catalog/k0/en/product/ES000903</a>	



### ECOLINE GTC 150-600

	Class NPS T [°C]  150 - 600 2" - 36" -29 to +816	<b>Description:</b> 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. <b>Applications:</b> Industrial applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
e, m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000774">http://shop.ksb.com/catalog/k0/en/product/ES000774</a>	



### ECOLINE GTF 150-600

	Class NPS T [°C]  150 - 600 ½" - 2" -29 to +816	<b>Description:</b> 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. <b>Applications:</b> Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.	
e, m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000611">http://shop.ksb.com/catalog/k0/en/product/ES000611</a>	

### ECOLINE GTF 800-2500

	Class NPS T [°C]  800 - 2500 ½" - 2" -29 to +538	<b>Description:</b> 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 (Class 800) or welded bonnet (Class 1500 and 2500), outside screw and yoke, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel. <b>Applications:</b> Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.	
e, m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000797">http://shop.ksb.com/catalog/k0/en/product/ES000797</a>	

### ECOLINE GTV 150-300

	Class NPS T [°C]  150 - 300 2" - 12" -29 to +816	<b>Description:</b> 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. <b>Applications:</b> Fine chemicals, food industry, general industry; water, steam, gas and other fluids.	
e, m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000373">http://shop.ksb.com/catalog/k0/en/product/ES000373</a>	

## SICCA 150-600 GTC



Class 150 - 600  
NPS 2" - 24"  
T [°C] 0 to +593

**Description:**  
Gate valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke, flexible wedge, non-rotating rising stem and non-rising handwheel, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel.

**Applications:**  
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.



● e, m

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

## SICCA 900-2500 GTC



Class 900 - 2500  
NPS 2" - 24"  
T [°C] 0 to +650

**Description:**  
Gate valve to ANSI/ASME with butt weld ends, pressure seal design, split-wedge design, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

**Applications:**  
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.



● e, m

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

## SICCA 800-1500 GTF



Class 800 - 1500  
NPS ½" - 2"  
T [°C] 0 to +593

**Description:**  
Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted bonnet (Class 800) or welded bonnet (Class 1500), single-piece wedge, outside screw and yoke, seat/disc interface made of 13 % chrome steel, Stellite hard-faced, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

**Applications:**  
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000479>

## WADA GT 150



Class 150  
NPS 1" - 12"  
T [°C] -196 to +100

**Description:**  
Gate valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, flexible wedge, graphite or PTFE gland packing, stainless steel/graphite gaskets.

**Applications:**  
Natural gas liquefaction and other liquefied gases.



● e, m, p, h

<http://shop.ksb.com/catalog/k0/en/product/ES000888>

## Gate valves for nuclear applications

### ZTN



P<sub>max</sub> [bar] max. 320  
DN 80 - 700  
T [°C] max. +365

**Description:**  
Gate valve for nuclear applications, with butt weld ends, 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.






● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000456>




## Body pressure relief valves

### UGS

	PN DN	max. 750 bar 15	<b>Description:</b> Spring-loaded body pressure relief valve to DIN/EN, with or without bursting disc, for gate valves in pressure seal design.  <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000899">http://shop.ksb.com/catalog/k0/en/product/ES000899</a>	




## Knife gate valves to DIN/EN

### HERA-BD




	PN DN T [°C]	10 50 - 1200 -10 to +120	<b>Description:</b> Knife gate valve to DIN/EN with wafer-type single-piece or two-piece body made of grey cast iron, bi-directional, with gland packing, non-rising stem, corrosion-protected by epoxy coating.  <b>Applications:</b> In industrial plants, waste water and process engineering, food industry. For water, waste water and solids-laden fluids. Other fluids on request.	
				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000597">http://shop.ksb.com/catalog/k0/en/product/ES000597</a>	

## Knife gate valves to ANSI/ASME




### HERA-BDS

	Class DN T [°C]	150 50 - 600 -10 to +120	<b>Description:</b> 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.  <b>Applications:</b> Primarily in mining for handling slurries, abrasive fluids and high-density fluids; also in pulp applications, cement plants, sewage treatment plants and the chemical industry. Other fluids on request.	
				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000895">http://shop.ksb.com/catalog/k0/en/product/ES000895</a>	

### HERA-BHT



	Class DN T [°C]	150 80 - 600 -10 to +100	<b>Description:</b> Knife gate valve to ANSI/ASME, semi-lug body made of carbon steel or stainless steel, two-piece body, bi-directional, with gland packing, through-going blade, rising stem, non-rising handwheel, robust yoke for actuator mounting as standard.  <b>Applications:</b> 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.	
				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000891">http://shop.ksb.com/catalog/k0/en/product/ES000891</a>	

## HERA-SH



	Class	150	<b>Description:</b> Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel, single-piece body, uni-directional, with gland packing, rising stem, non-rising handwheel. <b>Applications:</b> In industrial and waste water engineering, pulp and paper industry, food and beverages industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.	
	DN	50 - 600		
	T [°C]	-10 to +180		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000844">http://shop.ksb.com/catalog/k0/en/product/ES000844</a>	

## Lift check valves to DIN/EN



## BOA-RPL

	PN	10/16	<b>Description:</b> 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. <b>Applications:</b> Water supply and treatment systems, waste water.	
	DN	25 - 400		
	T [°C]	-10 to +70		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000635">http://shop.ksb.com/catalog/k0/en/product/ES000635</a>	



## BOA-RFV

	PN	10/16/25/40/64	<b>Description:</b> Lift 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 and vertical pipes. Rapid closure without surge pressures. <b>Applications:</b> Water supply systems, heating systems, air-conditioning systems.	
	DN	40 - 600		
	T [°C]	-10 to +90		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000653">http://shop.ksb.com/catalog/k0/en/product/ES000653</a>	



## BOA-RVK

	PN	6/10/16	<b>Description:</b> 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. <b>Applications:</b> 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.	
	DN	15 - 200		
	T [°C]	-20 to +250		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000357">http://shop.ksb.com/catalog/k0/en/product/ES000357</a>	



## BOA-R

	PN	6/16	<b>Description:</b> Lift check valve to DIN/EN with flanged ends, spring-loaded valve disc, maintenance-free. <b>Applications:</b> 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.	
	DN	15 - 350		
	T [°C]	-10 to +350		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000356">http://shop.ksb.com/catalog/k0/en/product/ES000356</a>	



## NORI 40 RXL/RXS

	PN	25/40	<b>Description:</b> Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> In 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 - 300		
	T [°C]	-10 to +450		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000358">http://shop.ksb.com/catalog/k0/en/product/ES000358</a>				



## NORI 160 RXL/RXS

	PN	63 - 160	<b>Description:</b> Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.  <b>Applications:</b> In 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 - 200		
	T [°C]	-10 to +550		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000360">http://shop.ksb.com/catalog/k0/en/product/ES000360</a>				



## NORI 320 RXL/RXS

	PN	250 - 320	<b>Description:</b> Lift check valve to DIN/EN with flanged or butt weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.  <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	65 - 200		
	T [°C]	-10 to +550		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000474">http://shop.ksb.com/catalog/k0/en/product/ES000474</a>				

## NORI 500 RXLR/RXSR

	PN	250 - 500	<b>Description:</b> Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant Stellite.  <b>Applications:</b> In 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 - 50		
	T [°C]	-10 to +580		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000362">http://shop.ksb.com/catalog/k0/en/product/ES000362</a>				

## RGS

	PN	250 - 500	<b>Description:</b> 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.  <b>Applications:</b> In 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 - 50		
	T [°C]	-10 to +580		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000364">http://shop.ksb.com/catalog/k0/en/product/ES000364</a>				



## BOACHEM-RXA



PN 10 - 40  
DN 15 - 300  
T [°C] -10 to +400

**Description:**  
Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface.

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



<http://shop.ksb.com/catalog/k0/en/product/ES000366>

## Lift check valves to ANSI/ASME

## ECOLINE PTF 150-600



Class 150 - 600  
NPS ½" - 2"  
T [°C] -29 to +816

**Description:**  
Lift check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, spring-loaded valve disc.

**Applications:**  
Industrial applications, 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 800-2500



Class 800 - 2500  
NPS ½" - 2"  
T [°C] -29 to +538

**Description:**  
Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), spring-loaded valve disc, available in carbon steel and alloy steel.

**Applications:**  
Industrial applications, 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 800-2500 PCF



Class 800 - 2500  
NPS ½" - 2"  
T [°C] 0 to +650

**Description:**  
Lift check valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted cover (Class 800) or welded cover (Class 1500/2500), Stellite hard-faced body seat, disc seating face made of 13 % chrome steel, Stellite hard-faced, with graphite gasket. Available in carbon steel and alloy steel.

**Applications:**  
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.



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

## WADA SC 150



Class 150  
NPS ½" - 18"  
T [°C] -196 to +100

**Description:**  
Swing/lift check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets.



**Applications:**  
Natural gas liquefaction and other liquefied gases.





<http://shop.ksb.com/catalog/k0/en/product/ES000890>

## Lift check valves for nuclear applications



### NUCA/-A/-ES, Type V

	P <sub>max</sub> [bar]	max. 410	<b>Description:</b> Lift check valve for nuclear applications, with butt weld ends, replaceable seat (NUCA-ES), straight-way pattern, made of steel or stainless steel. <b>Applications:</b> Feed water and live steam systems.	
	DN	10 - 50		
	T [°C]	max. +365		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000455">http://shop.ksb.com/catalog/k0/en/product/ES000455</a>				

### RJN



	P <sub>max</sub> [bar]	max. 140	<b>Description:</b> Damped lift check valve for nuclear applications, with butt weld ends, individually selectable damping characteristic, made of steel or stainless steel. <b>Applications:</b> Feed water and live steam systems.	
	DN	80 - 600		
	T [°C]	max. +300		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000459">http://shop.ksb.com/catalog/k0/en/product/ES000459</a>				

### RYN

	P <sub>max</sub> [bar]	max. 210	<b>Description:</b> Combined lift check/shut-off valve for nuclear applications, with butt weld ends, Y-pattern, with gland packing or bellows, made of steel or stainless steel. <b>Applications:</b> Feed water and live steam systems.	
	DN	65 - 300		
	T [°C]	max. +365		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000333">http://shop.ksb.com/catalog/k0/en/product/ES000333</a>				

## Swing check valves to DIN/EN

### COBRA-SCBS

	PN	16	<b>Description:</b> Swing check valve to British standards, with flanged ends, metal-seated, body and valve disc made of nodular cast iron, with bolted cover, stainless steel/graphite gaskets. <b>Applications:</b> Water supply, treatment and distribution systems, waste water, irrigation, drinking water, seawater, air, gas, oil.	
	DN	50 - 300		
	T [°C]	-10 to +300		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000827">http://shop.ksb.com/catalog/k0/en/product/ES000827</a>				

## ECOLINE WT/WTI



PN 16  
DN 50 - 300  
T [°C] -10 to +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, sewage 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  
DN 80 - 400  
T [°C] -10 to +450

**Description:**  
Swing check valve to DIN/EN with flanged or butt weld ends, bolted cover, internally mounted hinge pin, body of welded steel construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

**Applications:**  
In 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  
DN 80 - 400  
T [°C] -10 to +530

**Description:**  
Swing check valve to DIN/EN with flanged or butt weld ends, bolted cover, internally mounted hinge pin, body of forged or welded steel construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

**Applications:**  
In 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  
DN 80 - 300  
T [°C] -10 to +550

**Description:**  
Swing check valve to DIN/EN with flanged or butt weld ends, pressure seal design, internally mounted hinge pin, body of forged and welded construction, seat/disc interface made of wear and corrosion resistant 17% chrome steel or Stellite.

**Applications:**  
In 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 Approx. 600 bar  
DN 50 - 800  
T [°C] -10 to +650



**Description:**  
Swing check valve to DIN/EN, with butt weld ends, pressure seal design, internally mounted hinge pin, billet-forged body; seat/disc interface made of wear and corrosion resistant Stellite.

**Applications:**  
In 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	<b>Description:</b> 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; with internally mounted hinge pin, soft rubber encapsulated valve disc. <b>Applications:</b> In building services, industrial plants and power stations; suitable for drinking water, service water, from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.	
	DN	15 - 300		
	T [°C]	-20 to +140		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000397">http://shop.ksb.com/catalog/k0/en/product/ES000397</a>				

## SERIE 2000 PN 16



	PN	max. 16	<b>Description:</b> Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, metal/elastomer-seated, maintenance-free, EN/ASME/JIS connections possible. <b>Applications:</b> Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas.	
	DN	50 - 600		
	T [°C]	-5 to +200		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000393">http://shop.ksb.com/catalog/k0/en/product/ES000393</a>				





## SERIE 2000 PN 25

	PN	max. 25	<b>Description:</b> Dual-plate check valve with single-piece, wafer-type body made of nodular cast iron, metal/elastomer-seated or metal/metal-seated, maintenance-free, EN/ASME/JIS connections possible. <b>Applications:</b> Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas.	
	DN	50 - 600		
	T [°C]	-18 to +343		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000808">http://shop.ksb.com/catalog/k0/en/product/ES000808</a>				

## SERIE 2000 Class 150

	Class	150	<b>Description:</b> Dual-plate check valve with single-piece, wafer-type body made of steel, stainless steel or copper aluminium alloy, metal/elastomer-seated or metal/metal-seated, maintenance-free, EN/ASME/JIS connections possible. <b>Applications:</b> Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons. General processes: water, compressed air, gas.	
	DN	50 - 600		
	T [°C]	-196 to +538		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000809">http://shop.ksb.com/catalog/k0/en/product/ES000809</a>				

## SERIE 2000 Class 300

	Class	300	<b>Description:</b> Dual-plate check valve with single-piece, wafer-type body made of steel, stainless steel or copper aluminium alloy, metal/elastomer-seated or metal/metal-seated, maintenance-free, EN/ASME/JIS connections possible. <b>Applications:</b> Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons. General processes: water, compressed air, gas.	
	DN	50 - 300		
	T [°C]	-196 to +538		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000810">http://shop.ksb.com/catalog/k0/en/product/ES000810</a>				

## Swing check valves to ANSI/ASME

### ECOLINE SCC 150-600



Class 150 - 600  
NPS 2" - 24"  
T [°C] -29 to +816

**Description:**

Swing check valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted cover, internally mounted hinge pin (2"-12"), stainless steel/graphite gaskets.

**Applications:**

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



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

### ECOLINE SCF 150-600



Class 150 - 600  
NPS ½" - 2"  
T [°C] -29 to +816

**Description:**

Swing check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, internally mounted hinge pin.

**Applications:**

Industrial applications, 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/ES000799>

### ECOLINE SCF 800-2500



Class 800 - 2500  
NPS ½" - 2"  
T [°C] -29 to +538

**Description:**

Swing check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), internally mounted hinge pin, available in carbon steel and alloy steel.

**Applications:**

Industrial applications, 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/ES000798>

### ECOLINE SCV 150-300



Class 150 - 300  
NPS 2" - 12"  
T [°C] -29 to +816

**Description:**

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.

**Applications:**

Fine chemicals, food industry and general industry. For water, steam, gas and other fluids. Other applications on request.



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

### SICCA 150-600 SCC



Class 150 - 600  
NPS 2" - 24"  
T [°C] 0 to +593

**Description:**

Swing check valve to ANSI/ASME with flanged or butt weld ends, bolted cover, internally mounted hinge pin. Bigger sizes with anti-slam/dash pot arrangement (optional), graphite gasket. Seat/disc interface made of 13 % chrome steel, Stellite hard-faced. Available in carbon steel, low-alloy steel and stainless steel.



**Applications:**

Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.





<http://shop.ksb.com/catalog/k0/en/product/ES000486>

SICCA 900-2500 SCC



	Class	900 - 2500	<b>Description:</b> 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. <b>Applications:</b> Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.	
	NPS	2" - 24"		
T [°C]	0 to +650			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000487">http://shop.ksb.com/catalog/k0/en/product/ES000487</a>				

WADA SC 150



	Class	150	<b>Description:</b> Swing/lift check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets. <b>Applications:</b> Natural gas liquefaction and other liquefied gases.	
	NPS	½" - 18"		
T [°C]	-196 to +100			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000890">http://shop.ksb.com/catalog/k0/en/product/ES000890</a>				

Swing check valves for nuclear applications

SISTO-RSKNA

	PN	16	<b>Description:</b> Swing check valve with flanged ends, body with or without lining, soft-seated, no dead volumes, straight-way pattern, full bore, slanted seat; with internally mounted hinge pin and soft rubber encapsulated valve disc. <b>Applications:</b> Waste water systems, pump systems.	
	DN	25 - 300		
T [°C]	max. +100			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000838">http://shop.ksb.com/catalog/k0/en/product/ES000838</a>				



ZRN

	P <sub>max</sub> [bar]	max. 320	<b>Description:</b> Swing check valve for nuclear applications, with butt weld ends, bolted cover, internally mounted hinge pin, forged body made of steel or stainless steel. <b>Applications:</b> Safety feed, feed water, live steam and condensate systems.	
	DN	50 - 600		
T [°C]	max. +365			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000399">http://shop.ksb.com/catalog/k0/en/product/ES000399</a>				





## Tilting disc check valves to DIN/EN

### COBRA-TDC01/03



	<p>PN DN T [°C]</p>	<p>10/16/25 100 - 2200 -10 to +70</p>	<p><b>Description:</b> 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.</p> <p><b>Applications:</b> Water supply systems</p>	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000830">http://shop.ksb.com/catalog/k0/en/product/ES000830</a>	

## Strainers to DIN/EN



### BOA-S

	PN DN T [°C]	6/16/25 15 - 400 -10 to +350	<b>Description:</b> Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal sizes with drain plug in the cover. <b>Applications:</b> 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.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000401">http://shop.ksb.com/catalog/k0/en/product/ES000401</a>	

### NORI 40 FSL/FSS

	PN DN T [°C]	25/40 15 - 300 -10 to +450	<b>Description:</b> Strainer to DIN/EN with flanged or butt weld ends, body made of cast steel, with standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic inserts. <b>Applications:</b> In heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000523">http://shop.ksb.com/catalog/k0/en/product/ES000523</a>	

### BOACHEM-FSA

	PN DN T [°C]	10 - 40 15 - 400 -10 to +400	<b>Description:</b> 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. <b>Applications:</b> Process engineering, industry, building services, food and beverages industries, for aggressive fluids. Other fluids on request.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000402">http://shop.ksb.com/catalog/k0/en/product/ES000402</a>	

## Strainers to ANSI/ASME

### ECOLINE FYC 150-600



Class 150 - 600  
NPS 2" - 12"  
T [°C] -29 to +816

**Description:**  
Strainer to ANSI/ASME with flanged ends, Y-pattern, bolted cover, cast steel A216 WCB, screen made of stainless steel 304, mesh width 1.5 mm.

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



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

### ECOLINE FYF 800



Class 800  
NPS ½" - 2"  
T [°C] -29 to +816

**Description:**  
Strainer to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), Y-pattern, with bolted cover, forged steel A105, screen made of stainless steel 304. Mesh width 0.8 to 0.9 mm.

**Applications:**  
Industrial applications, 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/ES000666>

## Centred-disc butterfly valves

### BOAX-CBV13



PN 10/16  
DN 500 - 1200  
T [°C] -10 to +115

**Description:**  
Centred-disc butterfly valve with epoxy coating. Perfect shut-off in either flow direction. Flanged ends to EN standards, body made of nodular cast iron, valve disc made of stainless steel.

**Applications:**  
Shut-off or control duties, drinking water, seawater, water supply, treatment and distribution systems, waste water, irrigation, ultra-pure water, air, oil.



e, m, p

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

### BOAX-S



PN [bar] 10/16  
DN 20 - 600  
T [°C] -10 to +130

**Description:**  
Centred-disc butterfly valve for building services, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with lever, manual gearbox or pneumatic actuator. Semi-lug body (T2), suitable for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.

**Applications:**  
Heating, ventilation, air-conditioning systems, for drinking water.



m, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## BOAX-SF



PN [bar] 10/16  
DN 20 - 600  
T [°C] -10 to +130

**Description:**  
Centred-disc butterfly valve for building services, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with lever, manual gearbox or pneumatic actuator. Full-lug body (T4), suitable for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.

**Applications:**  
Heating, ventilation, air-conditioning systems, for drinking water.



m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000389>

## BOAXMAT-S



PN 10/16  
DN 20 - 600  
T [°C] -10 to +130  
Enclosure IP65/IP67

**Description:**  
Centred-disc butterfly valve for building services, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with electric actuator. Semi-lug body (T2), suitable for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN, electric actuator by BERNARD CONTROLS: LE and EZ type series for on/off control.

**Applications:**  
Heating, ventilation, air-conditioning systems, for drinking water.



e

<http://shop.ksb.com/catalog/k0/en/product/ES000496>

## BOAXMAT-SF



PN 10/16  
DN 20 - 600  
T [°C] -10 to +130  
Enclosure IP65/IP67

**Description:**  
Centred-disc butterfly valve for building services, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with electric actuator. Full-lug body (T4), suitable for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN, electric actuator by BERNARD CONTROLS: LE and EZ type series for on/off control.

**Applications:**  
Heating, ventilation, air-conditioning systems, for drinking water.



e

<http://shop.ksb.com/catalog/k0/en/product/ES000565>

## BOAX-S Gaz



PN [bar] max. 10  
DN 20 - 600  
T [°C] -20 to +60

**Description:**  
Centred-disc butterfly valve for gas installations, with elastomer liner (epichlorohydrin EG), with yellow lever, semi-lug body (T2), valve disc made of stainless steel 1.4308, connections to EN.

**Applications:**  
Gas circuits



m

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

## BOAX-SF Gaz



PN [bar] max. 10  
DN 20 - 600  
T [°C] -20 to +60

**Description:**  
Centred-disc butterfly valve for gas installations, with elastomer liner (epichlorohydrin EG), with yellow lever, full-lug body (T4), spherically machined valve disc made of stainless steel 1.4308, connections to EN.





**Applications:**  
Gas circuits







m

<http://shop.ksb.com/catalog/k0/en/product/ES000389>





## BOAX-B

	PN [bar]	10/16	<b>Description:</b> Centred-disc butterfly valve, soft-seated (liner made of EPDM XC or Nitrile K). With lever, manual gearbox, pneumatic or electric actuator. Wafer-type body (T1), 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. Valve disc made of nodular cast iron or stainless steel. EN, ASME and JIS connections possible.	
	DN	40 - 1000		
	T [°C]	-10 to +110	<b>Applications:</b> Engineering contractors. General water circuits, heating oil circuits, oil circuits. Shut-off and control duties in water management for water supply, water treatment, drainage and irrigation.	
 e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000573">http://shop.ksb.com/catalog/k0/en/product/ES000573</a>	





## BOAX-B Gaz

	PN [bar]	10/16	<b>Description:</b> Centred-disc butterfly valve, soft-seated (liner made of epichlorohydrin EG or Nitrile K), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron, EN connections.	
	DN	40 - 300		
	T [°C]	-20 to +90	<b>Applications:</b> Gas pipes to NF ROB.GAZ N°095.00	
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000574">http://shop.ksb.com/catalog/k0/en/product/ES000574</a>	

## BOAX-B APSAD

	PN [bar]	max. 16	<b>Description:</b> Centred-disc butterfly valve, soft-seated (liner made of EPDM XC), with manual gearbox to APSAD, semi-lug body (T2) suitable for downstream dismantling, valve disc made of nodular cast iron. Connections to EN.	
	DN	40 - 300		
	T [°C]	-10 to +110	<b>Applications:</b> Fire protection	
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000867">http://shop.ksb.com/catalog/k0/en/product/ES000867</a>	

## BOAX-B DVGW

	PN [bar]	10/16	<b>Description:</b> Centred-disc butterfly valve, soft-seated (liner made of epichlorohydrin), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron or stainless steel, EN connections.	
	DN	40 - 300		
	T [°C]	-20 to +60	<b>Applications:</b> Gas circuits and biogas plants.	
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000574">http://shop.ksb.com/catalog/k0/en/product/ES000574</a>	

## BOAX-B FM



PN [bar] 16  
DN 40 - 300  
T [°C] -10 to +110

**Description:**  
Centred-disc butterfly valve, soft-seated (liner made of EPDM XC), with manual gearbox to FM, semi-lug body (T2) or full-lug body (T4) suitable for downstream dismantling, valve disc made of nodular cast iron or stainless steel. Connections to EN.

**Applications:**  
Fire protection



m

<http://shop.ksb.com/catalog/k0/en/product/ES000904>

## BOAX-B Mat E



PN [bar] 10/16  
DN 40 - 300  
T [°C] -10 to +110  
Enclosure IP65

**Actuator:**  
Voltage 230 V 50 Hz/  
24 V DC

**Description:**  
Centred-disc butterfly valve, soft-seated (liner made of EPDM XC or Nitrile K). With electric 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. Valve disc made of nodular cast iron or stainless steel, EN and ASME connections possible. Electric actuator by BERNARD: LE/SD type series for on/off control or positioning through proportional control (4-20 mA).

**Applications:**  
Engineering contractors. General water circuits, heating oil circuits, oil circuits. Shut-off and control duties in water management for water supply, water treatment, drainage and irrigation.



e

<http://shop.ksb.com/catalog/k0/en/product/ES000804>

## BOAX-B Mat P



PN [bar] 10/16  
DN 40 - 300  
T [°C] -10 to +110  
Enclosure IP65

**Actuator:**  
T [°C] -20 to +80  
Control pressure [bar] 3, 5, 6, max. 8

**Description:**  
Centred-disc butterfly valve, soft-seated (liner made of EPDM XC or Nitrile K). With pneumatic 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. Valve disc made of nodular cast iron or stainless steel, EN and ASME connections possible, pneumatic scotch-yoke actuator with VDI/VDE interface for AMTROBOX C limit switch box and Namur interface for control air supply.

**Applications:**  
Engineering contractors. General water circuits, heating oil circuits, oil circuits. Shut-off and control duties in water management for water supply, water treatment, drainage and irrigation.



p

<http://shop.ksb.com/catalog/k0/en/product/ES000803>

## ISORIA 10



PN [bar] max. 10  
DN 40 - 1000  
T [°C] -10 to +200

**Description:**  
Centred-disc butterfly valve, soft-seated, with lever, 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. EN, ASME, JIS connections possible.

**Applications:**  
Shut-off and control duties in all industrial and energy sectors.



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

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

## ISORIA 16



PN [bar] max. 16  
DN 40 - 1000  
T [°C] -10 to +200

**Description:**  
Centred-disc butterfly valve, soft-seated, with lever, 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. EN, ASME, JIS connections possible.

**Applications:**  
Shut-off and control duties in all industrial and energy sectors.



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

<http://shop.ksb.com/catalog/k0/en/product/ES000378>

## ISORIA 20



PN [bar] max. 20  
DN 32 - 600  
T [°C] -10 to +80

**Description:**  
Centred-disc butterfly valve, soft-seated, with lever, manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. EN, ASME, JIS connections possible.

**Applications:**  
Shut-off and control duties in all industrial and energy sectors.



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

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

## ISORIA 20 UL



PN [bar] max. 16  
DN 40 - 700  
T [°C] -10 to +80

**Description:**  
Centred-disc butterfly valve, soft-seated, 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. EN, ASME, JIS connections possible. Underwriter Laboratories (UL) approved.

**Applications:**  
Fire protection



● m

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

## ISORIA 25



PN [bar] max. 25  
DN 32 - 1000  
T [°C] -10 to +60

**Description:**  
Centred-disc butterfly valve, soft-seated, with lever, manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), U-section body with flat faces (T5). Body types T2 and T5 are suitable for downstream dismantling and dead-end service with counterflange. EN, ASME, JIS connections possible.

**Applications:**  
Shut-off service for liquids only.



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

<http://shop.ksb.com/catalog/k0/en/product/ES000383>

## MAMMOUTH



PN [bar] 6/10/16/20/25  
DN 1050 - 4000  
T [°C] 0 to +65

**Description:**  
Centred-disc butterfly valve, soft-seated, with manual gearbox, electric, hydraulic or counterweight actuator, U-section body with flat faces (T5), connections to EN, ASME, JIS possible.

**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.



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

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



## KE PLASTOMER



PN [bar] 10  
DN 40 - 600  
T [°C] -20 to +200

**Description:**  
Centred-disc butterfly valve for chemical applications, sealed by plastomer liner (PFA Teflon), with lever, manual gearbox, pneumatic or electric actuator, wafer-type body (T1), full-lug body (T4), U-section body with raised faces (T6), connections to EN, ASME, JIS.

**Applications:**  
Highly corrosive applications: toxic and highly corrosive fluids which cannot be handled by metals and/or elastomers, thus requiring the sole use of PFA. Moderately corrosive applications: moderately corrosive fluids requiring the use of a PFA liner in combination with a stainless steel valve disc. Fluids requiring absolutely safe handling.



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

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

## KE ELASTOMER



PN [bar] 10  
DN 40 - 300  
T [°C] -20 to +150

**Description:**  
Centred-disc butterfly valve for chemical applications, sealed by elastomer liner, with lever, manual gearbox, pneumatic, electric or hydraulic actuator, wafer-type body (T1), full-lug body (T4), connections to EN, ASME.

**Applications:**  
Moderately corrosive and/or abrasive industrial fluids; production of powdery products.



● e, m, 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] -10 to +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.



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000824>

### DANAIS 150



PN [bar] max. 25  
or Class 150  
DN 50 - 1200  
T [°C] -50 to +260

**Description:**  
Double-offset butterfly valve with plastomer seat ring (also in fire-safe design), metal seat ring or elastomer seat ring (FKM [VITON R] or NBR [Nitrile]), with gland packing or without gland packing for corrosive fluids (maintenance-free), with lever or manual gearbox, pneumatic, electric or hydraulic actuator, body made of nodular cast iron, cast steel, stainless steel or duplex stainless steel (254 SMO), wafer-type body (T1) or full-lug body (T4). The T4 body type is suitable for dead-end service and downstream dismantling. EN, ASME, JIS connections.

**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.



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

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

## DANAIS MTII Class 150



PN [bar]	max. 25
or Class	150
DN	50 - 600
T [°C]	-50 to +260

**Description:**  
Double-offset butterfly valve with plastomer seat ring or metal seat ring (fire-safe), glandless, 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 and 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.



● e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## DANAIS MTII Class 300



PN [bar]	max. 50
or Class	300
DN	50 - 600
T [°C]	-50 to +260

**Description:**  
Double-offset butterfly valve with plastomer seat ring or metal seat ring (fire-safe), glandless, 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), flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME and 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.



● e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## DANAIS 300T



PN [bar]/ΔP	max. 50/20
or Class	300
DN	150 - 400
T [°C]	-50 to +150

**Description:**  
Double-offset butterfly valve with fire-safe plastomer seat ring or metal seat ring, manual gearbox or hydraulic actuator, body made of stainless steel, wafer-type body (T1). Connections to ASME. Added protection against aggressive atmospheres.

**Applications:**  
Marine applications, chemical tankers, petroleum, gas, chemical and petrochemical industry. Low-pressure steam, vacuum and all applications requiring offset-disc butterfly valves.



● e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

<http://shop.ksb.com/catalog/k0/en/product/ES000814>

## DANAIS TBTII (Cryogenic) Side Entry



PN [bar]	10/20
DN	200 - 1050
T [°C]	-250 to +200

**Description:**  
Double-offset butterfly valve for cryogenic applications, body made of stainless steel with butt weld ends to ASME, Schedule 40S or STD to NPS, approved fire-safe design, manual gearbox, pneumatic, electric or hydraulic actuator.

**Applications:**  
Natural gas liquefaction, onshore and offshore plants. All liquefied gases.



● e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## DANAIS TBTII (Cryogenic) Flanged



PN [bar]	max. 20
or Class	150
DN	50 - 1200
T [°C]	-250 to +200

**Description:**  
Double-offset butterfly valve for cryogenic applications, flanged body (T7) made of stainless steel, with flat or raised faces. ASME Class 150, JIS, approved fire-safe design, manual gearbox, pneumatic, electric or hydraulic actuator.

**Applications:**  
Natural gas liquefaction, onshore and offshore plants. All liquefied gases.



● e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## DANAÏS TBTII (Cryogenic) AL



PN [bar]	10/16
DN	80 - 600
T [°C]	-200 to +200

**Description:**  
Double-offset butterfly valve for cryogenic applications, full-lug body (T4), flanged body (T7) made of stainless steel, with flat or raised faces. ASME Class 150. Degreased for oxygen service. Approved fire-safe design. Manual gearbox or pneumatic actuator.

**Applications:**  
All liquefied gases.



• m, p + AMTROBOX/AMTRONIC/SMARTONIC

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

## Triple-offset butterfly valves

### TRIODIS 150



PN [bar]	max. 20
or Class	150
DN	80 - 1200
T [°C]	-196 to +260

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), glandless, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4) or flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 can be used for dead-end service. Connections to EN, ASME and 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 approved to BS 6775 Part 2. ATEX-compliant in accordance with Directive 94/9/EC. 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.



• e, m, h, p + AMTROBOX/AMTRONIC/SMARTONIC

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

### TRIODIS 300



PN [bar]	max. 50
or Class	300
DN	80 - 1200
T [°C]	-196 to +260

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), glandless, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4) or flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 can be used for dead-end service. Connections to EN, ASME and 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 approved to ISO 10497. ATEX-compliant in accordance with Directive 94/9/EC. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

**Applications:**  
Natural gas liquefaction. All liquefied gases. Heat transfer fluids, aggressive fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.



• m, p + AMTROBOX/AMTRONIC/SMARTONIC

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

### TRIODIS 600



PN [bar]	max. 100
or Class	600
DN	150 - 1000
T [°C]	-196 to +260

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), glandless, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4) or flanged body (T7) with flat or raised faces. Body types T4 and T7 can be used for dead-end service. Connections to EN, ASME and 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 approved to ISO 10497. ATEX-compliant in accordance with Directive 94/9/EC. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

**Applications:**  
Natural gas liquefaction. All liquefied gases. Heat transfer fluids, aggressive fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.






• m, p + AMTROBOX/AMTRONIC/SMARTONIC

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




## Butterfly valves for nuclear applications

### CLOSSIA




	P <sub>max</sub> [bar]	max. 5.5	<b>Description:</b> Double-offset butterfly valve, metal-seated, maintenance-free. Steel body with one flanged and one weld end connection. Safety actuator with manual, pneumatic or electric actuation. <b>Applications:</b> In reactor containment of nuclear power stations.	
	DN	250/500/750/1000		
	T [°C]	-20 to +170		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000907">http://shop.ksb.com/catalog/k0/en/product/ES000907</a>	

## Single-piece ball valves

### MP-CI/MP-II




	PN	16	<b>Description:</b> Ball valve to DIN/EN with wafer-type body made of Kanigen-treated carbon steel (MP/CI) or stainless steel (MP/II), stainless steel ball, PTFE/graphite seat. <b>Applications:</b> Irrigation and fire-fighting systems, domestic water supply, air-conditioning systems, cooling circuits, water supply systems.	
	DN	15 - 150		
	T [°C]	-10 to +200		
 m, p + AMTROBOX/AMTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000625">http://shop.ksb.com/catalog/k0/en/product/ES000625</a>	

### PROFIN-VT1




	PN	40	<b>Description:</b> Ball valve to ANSI/ASME with threaded ends (BSP), single-piece body, reduced bore, solid ball, blowout-proof stem, body made of stainless steel. <b>Applications:</b> In 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]	-10 to +150		
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000894">http://shop.ksb.com/catalog/k0/en/product/ES000894</a>	

## Two-piece ball valves

### ECOLINE BLT 150-300




	Class	150 / 300	<b>Description:</b> Ball valve to ANSI/ASME with flanged ends, two-piece body, full bore, floating ball, plastomer sealing (also in fire-safe design). <b>Applications:</b> General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.	
	DN	15 - 300		
	T [°C]	-10 to +200		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000795">http://shop.ksb.com/catalog/k0/en/product/ES000795</a>	

## PROFIN-VT2L




	PN	40	<b>Description:</b> Ball valve to ANSI/ASME with threaded ends (BSP), two-piece body, full bore, solid ball, anti-static design, blowout-proof stem, body made of stainless steel. <b>Applications:</b> In 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 - 80		
		T [°C]	-10 to +150	
 m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000894">http://shop.ksb.com/catalog/k0/en/product/ES000894</a>		

## Three-piece ball valves




### ECOLINE BLC 1000

	Class	1000 WOG	<b>Description:</b> 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). <b>Applications:</b> General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.	
	DN	8 - 100		
		T [°C]	-10 to +200	
 m, p		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000794">http://shop.ksb.com/catalog/k0/en/product/ES000794</a>		

### PROFIN-SI3FIT/-SI3IT/-SI3LIT



	PN	16/40	<b>Description:</b> 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 stem, spring-loaded stem seal, body made of stainless steel. <b>Applications:</b> In 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	15 - 100		
		T [°C]	-10 to +150	
 m, p		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000893">http://shop.ksb.com/catalog/k0/en/product/ES000893</a>		

### PROFIN-VT3/-VT3L/-VT3F/-VT33L



	PN	16/40	<b>Description:</b> 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 stem, body made of stainless steel. <b>Applications:</b> In 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 - 100		
		T [°C]	-10 to +150	
 m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000894">http://shop.ksb.com/catalog/k0/en/product/ES000894</a>		

## Soft-seated diaphragm valves to DIN/EN



### SISTO-KB

	PN	10	<b>Description:</b> Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by diaphragm; straight-way pattern, 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.	
	DN	15 - 200		
	T [°C]	-20 to +140	<b>Applications:</b> In building services, industrial plants, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.	
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000314">http://shop.ksb.com/catalog/k0/en/product/ES000314</a>	



### SISTO-KBS

	PN	10	<b>Description:</b> Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off and sealing to atmosphere by diaphragm; straight-way pattern, 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.	
	DN	15 - 200		
	T [°C]	-20 to +140	<b>Applications:</b> In building services, industrial plants, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.	
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000526">http://shop.ksb.com/catalog/k0/en/product/ES000526</a>	



### SISTO-10

	PN	10	<b>Description:</b> 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.	
	DN	15 - 300		
	T [°C]	-20 to +160	<b>Applications:</b> In industrial and chemical plants, in process engineering. Suitable for service water, air, oil, abrasive and aggressive fluids.	
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000315">http://shop.ksb.com/catalog/k0/en/product/ES000315</a>	

### SISTO-10M

	PN	10	<b>Description:</b> 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.	
	DN	15 - 80		
	T [°C]	-10 to +140	<b>Applications:</b> In industrial and chemical plants, in process engineering. Suitable for service water, air, oil, abrasive and aggressive fluids.	
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000513">http://shop.ksb.com/catalog/k0/en/product/ES000513</a>	

### SISTO-16

	PN	16	<b>Description:</b> 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 to +160	<b>Applications:</b> In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.	
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000316">http://shop.ksb.com/catalog/k0/en/product/ES000316</a>	



## SISTO-16S



PN 16  
DN 15 - 200  
T [°C] -20 to +160

**Description:**  
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

**Applications:**

In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000514>

## SISTO-16RGA



PN 16  
DN 15 - 80  
T [°C] -10 to +90

**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.

**Applications:**

Drinking water, particularly drinking water installations to DIN 1988, seawater, all service water qualities.



● m

<http://shop.ksb.com/catalog/k0/en/product/ES000319>

## SISTO-16TWA/HWA/DLU



PN 16  
DN 15 - 200  
T [°C] -10 to +140

**Description:**  
Diaphragm valve to DIN/EN with flanged ends, for drinking water installations to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with 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.

**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.



● e, m, p

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

## SISTO-20



PN 16  
DN 15 - 200  
T [°C] -20 to +160

**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.

**Applications:**

In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000317>

## SISTO-C



PN 16  
DN 6 - 100  
T [°C] -10 to +160

**Description:**  
Diaphragm valve with butt weld ends or clamps; in 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, visual position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

**Applications:**

Biotechnology, pharmaceutical industry, sterile processes, food and beverages industry.





● m, p



<http://shop.ksb.com/catalog/k0/en/product/ES000320>

## Diaphragm valves for nuclear applications



### MXN

	P <sub>max</sub> [bar]	max. 12	<b>Description:</b> Diaphragm valve for nuclear applications with flanged or butt weld ends, soft-seated (EPDM), made of steel, stainless steel or rubber-lined nodular cast iron.  <b>Applications:</b> Cleaning systems, condensate and cooling water systems, auxiliary systems.	
	DN	10 - 200		
	T [°C]	max. +100		
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000451">http://shop.ksb.com/catalog/k0/en/product/ES000451</a>	

### SISTO-20NA


	PN	20	<b>Description:</b> Diaphragm valve for nuclear applications, with butt weld ends; 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.  <b>Applications:</b> Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.	
	DN	8 - 150		
	T [°C]	max. +100		
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000840">http://shop.ksb.com/catalog/k0/en/product/ES000840</a>	

### SISTO-DrainNA

	PN	16	<b>Description:</b> Diaphragm valve for nuclear applications, with butt weld ends; 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.  <b>Applications:</b> Heating systems, air-conditioning systems, auxiliary systems.	
	DN	15 - 25		
	T [°C]	max. +100		
● m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000841">http://shop.ksb.com/catalog/k0/en/product/ES000841</a>	



## Feed water bypass valves

### ZJSVM/RJSVM

	PN	Approx. 600 bar	<b>Description:</b> 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.  <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	100 - 800		
	T [°C]	-10 to +450		
● e, m, p				



## Line blind valves

### VTs



	PN DN T [°C] <div>             Approx. 600 bar              200 - 500              -10 to +650           </div>	<b>Description:</b> Line blind valve to DIN/EN with butt weld ends, pressure seal design, billet forged body, seat/disc interface made of wear and corrosion resistant Stellite. <b>Applications:</b> In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000425">http://shop.ksb.com/catalog/k0/en/product/ES000425</a>			

## Expansion and anti-vibration joints

### ECOLINE GE1/GE2/GE3



	PN DN T [°C] <div>             16              15 - 300              -10 to +105           </div>	<b>Description:</b> Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel. <b>Applications:</b> Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverages industry, water treatment, water supply.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000687">http://shop.ksb.com/catalog/k0/en/product/ES000687</a>			

### ECOLINE GE4



	PN DN T [°C] <div>             16              20 - 200              -10 to +100           </div>	<b>Description:</b> Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards. <b>Applications:</b> Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverages industry, water treatment, water supply.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000681">http://shop.ksb.com/catalog/k0/en/product/ES000681</a>			

Levers

CR/CM

	T [°C]	-20 to +80	<b>Description:</b> Lever made of ductile iron, type CR: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions) and type CM: same as CR, with special coating.	
			<b>Applications:</b> All applications in building services, water, energy and industrial engineering.	
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000501">http://shop.ksb.com/catalog/k0/en/product/ES000501</a>			

S/SR/SP


	T [°C]	-20 to +80	<b>Description:</b> Lever made of light metal alloy; type S: locks in limit positions (open and closed), type SR: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), type SP: locks in any position.	
	<b>Applications:</b> All applications in water, energy and industrial engineering.			
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000501">http://shop.ksb.com/catalog/k0/en/product/ES000501</a>			

Manual gearboxes




MA

	Output torque [Nm]	max. 250	<b>Description:</b> Manual actuators for operating quarter-turn valves. MA range manual gearbox, irreversible planetary gear kinematics, handwheel-operated.  <b>Applications:</b> Building services, general industry.	
	Enclosure	IP65		
T [°C]	-20 to +80			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000502">http://shop.ksb.com/catalog/k0/en/product/ES000502</a>				

MN



	Output torque [Nm]	max. 800	<b>Description:</b> Manual actuators for operating quarter-turn valves. MN range manual gearbox, irreversible worm gear kinematics, handwheel-operated.  <b>Applications:</b> Building services, general industrial processes, water and industrial applications in non-corrosive and non-saline environments.	
	Enclosure T [°C]	IP67 -40 to +120		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000503">http://shop.ksb.com/catalog/k0/en/product/ES000503</a>				

## MR



	Output torque [Nm]	max. 16,000	<b>Description:</b> Heavy-duty manual actuators for operating quarter-turn valves. MR range manual gearbox, irreversible worm gear or scotch-yoke kinematics. Handwheel-operated as standard. Models MR 400 to 1600 can be fitted with actuators. Options include alternative operating mechanisms, limit switch boxes, low-temperature version, etc.	
	Enclosure T [°C]	IP67/IP68 -50 to +80		
 AMTROBOX			<b>Applications:</b> Building services, industry and process engineering, water and waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000502">http://shop.ksb.com/catalog/k0/en/product/ES000502</a>	

## Electric actuators



## ACTELEC quarter-turn actuator (BERNARD CONTROLS, EZ and SQ type series)

	Type	EZ4 - SQ120	<b>Description:</b> Electric quarter-turn actuator by BERNARD CONTROLS for direct mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Power supply: single-phase AC, three-phase or DC. ACTELEC features torque limitation, travel stop and limit switch box as standard. For on/off control or throttling duties. Integrated local control or remote control.	
	Quarter-turn actuator Enclosure Output torque [Nm]	direct IP67 max. 1000		
			<b>Applications:</b> All applications in water, energy and industrial engineering.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	



## ACTELEC quarter-turn actuator (BERNARD CONTROLS, LE type series)

	Type	LEA/LEB	<b>Description:</b> Electric quarter-turn LE series actuator by BERNARD CONTROLS for direct mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Power supply: single-phase AC. ACTELEC features torque limitation, travel stop and limit switch box as standard. For on/off control. Integrated local control or remote control.	
	Quarter-turn actuator	direct		
	Enclosure	IP65		
	Output torque [Nm]	max. 100		
			<b>Applications:</b> All applications in water engineering, building services, energy and industrial engineering.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	

## ACTELEC quarter-turn actuator (AUMA, SQ type series)

	Type	SQ 05.2 - SQ 12	<b>Description:</b> Electric quarter-turn actuator by AUMA for direct mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Power supply: single-phase AC, three-phase or DC. ACTELEC features torque limitation, travel stop and limit switch box as standard. For on/off control or throttling duties. Integrated local control or remote control.  <b>Applications:</b> All applications in water, energy and industrial engineering.  <a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	
	Quarter-turn actuator	direct		
	Enclosure	IP67		
	Output torque [Nm]	max. 1200		

## ACTELEC multi-turn actuator (BERNARD CONTROLS)

	Type	31 - 800	<b>Description:</b> Electric multi-turn actuator by BERNARD CONTROLS with MR manual gearbox for direct mounting on butterfly valves or ball valves. Actuator flange to ISO 5211. Power supply: single-phase AC, three-phase or DC. ACTELEC features torque limitation, travel stop and limit switch box as standard. For on/off control or throttling duties. Integrated local control or remote control.  <b>Applications:</b> All applications in water, energy and industrial engineering.  <a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	
	Multi-turn actuator	IP67		
	Enclosure			
	Output torque [Nm]	max. 8000		

## ACTELEC multi-turn actuator (AUMA)

	Type	31 - 1600	<b>Description:</b> Electric multi-turn actuator by AUMA with MR manual gearbox for direct mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Power supply: single-phase AC, three-phase or DC. ACTELEC features torque limitation, travel stop and limit switch box as standard. For on/off control or throttling duties. Integrated local control or remote control.	
	Enclosure	IP67		
	Output torque [Nm]	max. 16,000	<b>Applications:</b> All applications in water, energy and industrial engineering.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	

## SISTO-LAE

	Type	AUMA	<b>Description:</b> 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.	
	Enclosure	IP67		
	Output torque [Nm]	max. 250	<b>Applications:</b> Building services, industry, power stations, food industry, chemical industry.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000405">http://shop.ksb.com/catalog/k0/en/product/ES000405</a>	

## Hydraulic actuators

### ACTO




	Output torque [Nm]	max. 125,000	<b>Description:</b> Double-acting hydraulic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 120 bar. Mounts on valve stems with square end, flat end or key. Force transmission via rack-and-pinion, scotch-yoke or patented AMRI yoke kinematics provides output torques of up to 125,000 Nm which are ideal for actuating quarter-turn valves. ACTO is equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Manual override can be provided as an option. The following accessories are available for hydraulic control: shut-off valve, hydraulic locking, emergency shutdown (ESD). Can be combined with all AMTROBOX limit switch boxes.	
	Enclosure	IP68		
	T [°C]	-20 to +80	<b>Applications:</b> All applications in water, energy and industrial engineering.	
AMTROBOX			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000414">http://shop.ksb.com/catalog/k0/en/product/ES000414</a>	

### DYNACTO

	Output torque [Nm]	max. 4000	<b>Description:</b> Single-acting hydraulic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 120 bar. Mounts on valve stems with square end, flat end or key. Force transmission via rack-and-pinion, scotch-yoke or patented AMRI yoke kinematics provides output torques of up to 4000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position is effected by means of spring assemblies if control fluid supply is interrupted. DYNACTO is equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Manual override can be provided up to DYNACTO 100 on request. The following accessories are available for hydraulic control: shut-off valve, hydraulic locking, emergency shutdown (ESD), hydraulic hand pump. Can be combined with all AMTROBOX limit switch boxes.	
	Enclosure	IP68		
	T [°C]	-20 to +80	<b>Applications:</b> All applications in water, energy and industrial engineering.	
AMTROBOX			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000415">http://shop.ksb.com/catalog/k0/en/product/ES000415</a>	






## ENNACTO




	Output torque [Nm] Enclosure T [°C]	max. 16,000 IP68 -20 to +65	<b>Description:</b> Single-acting hydraulic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 120 bar. Mounts on valve stems with square end, flat end or key. Force transmission via rack-and-pinion, scotch-yoke or patented AMRI yoke kinematics provides output torques of up to 16,000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position is effected by means of a pressurised nitrogen cartridge if control fluid supply is interrupted. ENNACTO is equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. The following accessories are available for hydraulic control: hydraulic hand pump. Can be combined with all AMTROBOX limit switch boxes. <b>Applications:</b> All applications in water, energy and industrial engineering.	
 AMTROBOX			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000509">http://shop.ksb.com/catalog/k0/en/product/ES000509</a>	

## Pneumatic actuators

### ACTAIR

	Output torque [Nm] at a control pressure of 6 bar Enclosure T [°C]	max. 17,600  IP67 -20 to +80	<b>Description:</b> 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 valve stems with square end, flat end or key. Force transmission via rack-and-pinion, scotch-yoke or patented AMRI yoke kinematics provides output torques of up to 16,000 Nm which are ideal for actuating quarter-turn valves. ACTAIR is equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Manual override can be provided as an option. ACTAIR can be combined with control unit types AMTROBOX, AMTRONIC, SMARTRONIC or any other device with a VDI/VDE 3845 interface. <b>Applications:</b> All applications in water, energy and industrial engineering.	
 AMTROBOX, AMTRONIC, SMARTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000411">http://shop.ksb.com/catalog/k0/en/product/ES000411</a>	

### ACTAIR-B

	Output torque [Nm] at a control pressure of 6 bar Enclosure T [°C]	max. 400  IP67 -20 to +80	<b>Description:</b> Double-acting pneumatic scotch-yoke actuator for mounting on BOAX-B DN 50-300. Visual position indicator and travel stop for closed position as standard. ACTAIR B can be combined with control unit types AMTROBOX, AMTRONIC, SMARTRONIC or any other device with a VDI/VDE 3845 interface. <b>Applications:</b> Water, general industry.	
 AMTRONIC, SMARTRONIC, AMTROBOX C			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000411">http://shop.ksb.com/catalog/k0/en/product/ES000411</a>	

## DYNACTAIR



Output torque [Nm]  
at a control pressure of  
6 bar  
Enclosure  
T [°C]

max. 8800  
  
IP65  
-20 to +80

**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 valve stems with square end, flat end or key. Force transmission via rack-and-pinion, scotch-yoke or patented AMRI yoke kinematics provides output torques of up to 8800 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position is effected by means of spring assemblies if control air supply is interrupted. DYNACTAIR is equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Manual override can be provided up to DYNACTAIR 100 on request. DYNACTAIR can be combined with control unit types AMTROBOX, AMTRONIC, SMARTRONIC or any other device with a VDI/VDE 3845 interface.

**Applications:**

All applications in water, energy and industrial engineering.



● AMTROBOX, AMTRONIC, SMARTRONIC

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

## DYNACTAIR-B



Output torque [Nm]  
at a control pressure of  
6 bar  
Enclosure  
T [°C]

max. 400  
  
IP67  
-20 to +80

**Description:**

Single-acting pneumatic scotch-yoke actuator for mounting on BOAX-B DN 40-300. Visual position indicator and travel stop for closed position as standard. DYNACTAIR can be combined with control unit types AMTROBOX, AMTRONIC, SMARTRONIC or any other device with a VDI/VDE 3845 interface.

**Applications:**

Water, general industry.



● AMTRONIC, SMARTRONIC, AMTROBOX C

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

## SISTO-LAD



Control air pressure [bar]  
Closing force [N]

max. 6  
max. 20,000

**Description:**

Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe, diaphragm 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:**

In building services, industrial plants, 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]

max. 10  
max. 250,000

**Description:**

Piston actuator in heavy-duty design for industrial use on valves with a linear stem movement (globe, diaphragm and gate valves). Mounting 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:**

In building services, industrial plants, power stations, the food and beverages industries and the 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]

max. 10  
max. 20,000

**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.

**Applications:**

Biotechnology, pharmaceutical industry, sterile processes, food and beverages industry.



<http://shop.ksb.com/catalog/k0/en/product/ES000320>

## Actuator accessories

## RMD



Enclosure  
T [°C]

IP65  
-20 to +80

**Description:**

ACTAIR 3 to 1600 double-acting pneumatic actuators, DYNACTAIR 1,5 to 100 single-acting pneumatic actuators, ACTO 25 to 1600 double-acting hydraulic actuators and DYNACTO 12 to 100 single-acting hydraulic actuators can be fitted with a manual override using a declutchable gear operator with handwheel. 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, energy and industrial engineering.



<http://shop.ksb.com/catalog/k0/en/product/ES000906>

## DUALIS



DN  
T [°C]

500 - 1400  
-10 to +65

**Description:**

Single-acting, hydraulically controlled counterweight actuator. Controlled by integrated hydraulic power unit. For mounting on valves with DN 500 to 1400.

**Applications:**



Installation in pump discharge lines in pumping stations. Power station cooling circuits. Protects pipes and turbines.





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

## Monitoring



### AMTROBOX

	Enclosure T [°C]  IP67 -20 to +80	<b>Description:</b> 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 pneumatic actuators and ACTO hydraulic actuators. <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>			



### AMTROBOX EEx ia

	Enclosure T [°C]  IP67 -20 to +80	<b>Description:</b> 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. <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>			



### AMTROBOX ATEX Zone 22

	Enclosure T [°C]  IP67 -10 to +60	<b>Description:</b> Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX ATEX (X1140, X1149): ATEX version for potentially explosive dust atmospheres (Zone 22). <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>			

### AMTROBOX C

	Enclosure T [°C]  IP65 -20 to +80	<b>Description:</b> Cost-effective solution for open/closed position signalling via mechanical limit switches. AMTROBOX C (RA01290) mounts on ACTAIR/ACTAIR-B pneumatic actuators, MR manual gearboxes to VDI/VDE and BOAX-B Mat P. <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>			

### AMTROBOX M

	Enclosure T [°C]  IP65 -20 to +80	<b>Description:</b> Limit switch box 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). <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>			

## AMTROBOX R



Enclosure  
T [°C]

IP68  
-20 to +70

**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 pneumatic actuators and ACTO hydraulic actuators and all actuators with a VDI/VDE interface.

**Applications:**  
All applications in water engineering, energy engineering, offshore and heavy industry.



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## AMTROBOX R EEx ia



Enclosure  
T [°C]

IP68  
-25 to +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 explosive atmospheres (Zones 0 + 20).

**Applications:**  
All applications in water engineering, energy engineering, offshore and heavy industry.



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## AMTROBOX R Ex d



Enclosure  
T [°C]

IP68  
-25 to +80

**Description:**  
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R Exd (R1189): intrinsically safe version for potentially explosive atmospheres.

**Applications:**  
All applications in water engineering, energy engineering, offshore and heavy industry.



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## AMTROBOX S



Enclosure  
T [°C]

IP65/IP67  
-20 to +80

**Description:**  
Robust control unit with manual override for pneumatic actuators (max. 250 Nm). For open/closed position signalling via mechanical limit switches. AMTROBOX S mounts on ACTAIR pneumatic actuators and ACTO hydraulic actuators.



**Applications:**  
All applications in water engineering, building services and energy engineering.





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## ON/OFF valve controllers

### AMTRONIC



	Enclosure	IP67	<b>Description:</b> AMTRONIC Bus provides on/off control of pneumatic quarter-turn actuators and open/closed position signalling. The unit attaches directly to an ACTAIR or DYNACTAIR actuator with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic piping between AMTRONIC and the actuator. The actuating time can be set via the AMTRONIC's air flow reducer. AMTRONIC can be connected to Profibus DP and AS-i field buses. AMTRONIC BUS 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 BUS can be integrated in Profibus DP and especially in AS-i field buses.  <b>Applications:</b> All applications in water, energy and industrial engineering.	
	Control air pressure [bar] T [°C]	3 to 8 -20 to +80		
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### AMTRONIC Ex ia



	Enclosure	IP67	<b>Description:</b> AMTRONIC Ex ia (R1301) is an on/off valve controller suitable for mounting on ACTAIR/DYNACTAIR pneumatic actuators with direct compressed air supply, or on any type of quarter-turn actuator with a VDI/VDE 3845 interface and linear actuators with a NAMUR interface. It offers position indication and compressed air supply, providing a rugged, compact and integrated solution. Owing to its intrinsically safe design, AMTRONIC Ex ia can be operated in potentially explosive atmospheres. It complies with ATEX directive 94/9/EC and is marked to CE 0081 Ex II 1 G. The unit is certified to EEx ia IIC T6 as per the EN 50014 and EN 50020 standards.  <b>Applications:</b> All applications in water, energy and industrial engineering.  <a href="http://shop.ksb.com/catalog/k0/en/product/ES000462">http://shop.ksb.com/catalog/k0/en/product/ES000462</a>	
	Control air pressure [bar]	3 to 8		
	T [°C]	-25 to +80		

## Positioners

### SMARTRONIC MA

	Enclosure	IP67	<b>Description:</b> SMARTRONIC MA (R1310) is a digital electro-pneumatic positioner powered via the 4-20 mA signal. It is suitable for mounting on ACTAIR/DYNACTAIR 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.  <b>Applications:</b> All applications in water, energy and industrial engineering.	
	Control air pressure [bar]	2 to 7		
	T [°C]	-20 to +80		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000461">http://shop.ksb.com/catalog/k0/en/product/ES000461</a>				



### SMARTRONIC AS-i

	Enclosure	IP67	<b>Description:</b> SMARTRONIC AS-i (R1310) is a digital electro-pneumatic positioner for connection to an AS-i field bus. It is certified by AS International and suitable for mounting on ACTAIR/DYNACTAIR 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.  <b>Applications:</b> All applications in water, energy and industrial engineering.	
	Control air pressure [bar]	3 to 8		
	T [°C]	-20 to +80		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000874">http://shop.ksb.com/catalog/k0/en/product/ES000874</a>				



# Intelligent positioners

## SMARTRONIC PC

	<table><tr><td>Enclosure</td><td>IP67</td></tr><tr><td>Control air pressure [bar]</td><td>3 to 8</td></tr><tr><td>T [°C]</td><td>-20 to +80</td></tr></table>	Enclosure	IP67	Control air pressure [bar]	3 to 8	T [°C]	-20 to +80	<p><b>Description:</b> SMARTRONIC PC (R1312) is an intelligent, compact and innovative positioner. The integrated control offered by this multi-functional unit represents the latest in open-loop and closed-loop control technology for valves. The unit attaches directly to ACTAIR or DYNACTAIR actuators with no need for a bracket or external piping, providing a rugged, compact and integrated solution. SMARTRONIC PC offers four functions: programmable 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.</p> <p><b>Applications:</b> All applications in water, energy and industrial engineering.</p>	
Enclosure	IP67								
Control air pressure [bar]	3 to 8								
T [°C]	-20 to +80								
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000873">http://shop.ksb.com/catalog/k0/en/product/ES000873</a>									



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