

## Product Portfolio 2019

### Valves | Actuators | Automation



# Type Series Index

ACTAIR NG	62	ECOLINE GTV 150-300	39	SISTO-VentNA	36
ACTELEC (AUMA)	61	ECOLINE PTF 150-600	43	SMARTRONIC AS-i	66
ACTELEC (BERNARD CONTROLS)	61	ECOLINE PTF 800	43	SMARTRONIC MA	66
AKG-A/AKGS-A	37	ECOLINE SCC 150-600	46	SMARTRONIC PC	67
AKR/AKRS	45	ECOLINE SCF 150-600	46	STAAL 100 AKD/AKDS	37
AMTROBOX	64	ECOLINE SCF 800	47	STAAL 100 AKK/AKKS	45
AMTROBOX ATEX Zone 22	64	ECOLINE SCV 150-300	47	STAAL 40 AKD/AKDS	37
AMTROBOX EEx ia	64	ECOLINE SP/SO	37	STAAL 40 AKK/AKKS	45
AMTROBOX F	64	ECOLINE VA 16	29		
AMTROBOX M	64	ECOLINE WT/WTI	45	TRIODIS 150	53
AMTROBOX R	65			TRIODIS 300	53
AMTROBOX R EEx ia	65	HERA-BD	40	TRIODIS 600	53
AMTROBOX R Ex d	65	HERA-BDS	41		
AMTRONIC	65	HERA-BHT	41	UGS	40
AMTRONIC Ex ia	66	HERA-SH	41		
APORIS	52	HQ	61	WADA GL 150	30
				WADA GT 150	39
BOACHEM-FSA	49	ISORIA 10/16	51	WADA LC 150	44
BOACHEM-RXA	43	ISORIA 20 UL	51	WADA SC 150	47
BOACHEM-ZXA	29	ISORIA 20/25	51		
BOACHEM-ZXAB	27			ZJSVM/RJSVM	59
BOA-Compact	25	KE	52	ZRN	48
BOA-Compact EKB	25			ZRS	46
BOA-Control SAR	33	MAMMOUTH	51	ZTN	40
BOA-Control/BOA-Control IMS	33	MN	60	ZTS	38
BOA-CVE C/CS/W/IMS/EKB	32	MP-CI/MP-II	54	ZXNB	31
BOA-CVE H	32	MR	60	ZXNVB	31
BOA-CVP H	33			ZYNB/ZYN	31
BOA-H	26	NORI 160 RXL/RXS	42		
BOA-H Mat E	32	NORI 160 ZXL/ZXS	28		
BOA-H Mat P	32	NORI 160 ZXLf/ZXSf	28		
BOA-H/HE/HV/HEV	26	NORI 320 ZXSV	28		
BOA-R	42	NORI 40 FSL/FSS	49		
BOA-RFV	42	NORI 40 RXL/RXS	42		
BOA-RPL	41	NORI 40 ZXL/ZXS	27		
BOA-RVK	42	NORI 40 ZXLb/ZXSb	26		
BOA-S	48	NORI 40 ZXLbV/ZXSbV	26		
BOA-SuperCompact	25	NORI 40 ZXLf/ZXSf	28		
BOAVENT-AVF	35	NORI 40 ZYLB/ZYSB	26		
BOAVENT-SIF	35	NORI 500 ZXSV	28		
BOAVENT-SVA	35	NUCA/-A/-ES, Type V	44		
BOAVENT-SVF	35	NUCA/-A/-ES, Types I, II, IV	31		
BOA-W	25				
BOAX-B	50	PROFIN-SI3FIT/-SI3IT/-SI3LIT	55		
BOAX-B DVGW	51	PROFIN-VT1	54		
BOAX-B Gaz	50	PROFIN-VT2L	55		
BOAX-CBV13	50	PROFIN-VT3/-VT3L/-VT3F/-VT33L	56		
BOAX-S/SF	50				
BOAX-S/SF Gaz	50	RGS	43		
		RJN	44		
CLOSSIA	54	RMD	63		
COBRA-SCBS	45	RYN	44		
COBRA-SGP/SGO/SGF	36				
COBRA-SMP	36	S/SR/SP	60		
COBRA-TDC01/03	48	SERIE 2000	46		
CONDA-VLC	34	SICCA 150-600 GLC	30		
CONDA-VRC	34	SICCA 150-600 GTC	39		
CONDA-VSM	34	SICCA 150-600 SCC	47		
CR/CM	60	SICCA 800-2500 GTF	39		
		SICCA 800-4500 GLF	30		
DANAİS 150	52	SICCA 800-4500 PCF	43		
DANAİS MTII	52	SICCA 900-2500 GLC	30		
DANAİS TBTII	53	SICCA 900-3600 GTC	39		
DUALIS	54	SICCA 900-3600 SCC	47		
DYNACTAIR NG	62	SISTO-10	56		
		SISTO-10M	57		
ECOLINE BLC 1000	55	SISTO-16	57		
ECOLINE BLT 150-300	55	SISTO-16RGA	57		
ECOLINE FYC 150-600	49	SISTO-16S	57		
ECOLINE FYF 800	49	SISTO-16TWA/HWA/DLU	57		
ECOLINE GE1/GE2/GE3	59	SISTO-20	58		
ECOLINE GE4	59	SISTO-20NA	58		
ECOLINE GLB 150-600	27	SISTO-C	58		
ECOLINE GLB 800	27	SISTO-C LAP	63		
ECOLINE GLC 150-600	29	SISTO-DrainNA	58		
ECOLINE GLF 150-600	29	SISTO-KB	56		
ECOLINE GLF 800	29	SISTO-KBS	56		
ECOLINE GLV 150-300	30	SISTO-KRVNA	36		
ECOLINE GT 40	37	SISTO-LAD	62		
ECOLINE GTB 800	38	SISTO-LAE	61		
ECOLINE GTC 150-600	38	SISTO-LAP	62		
ECOLINE GTF 150-600	38	SISTO-RSK/RSKS	46		
ECOLINE GTF 800	38	SISTO-RSKNA	48		

## 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. And a strong one:

- 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

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
- Reverse engineering
- Efficiency analysis with SES System Efficiency Service or Pump Operation Check
- Retrofitting as an alternative to buying a new product
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning
- Inventory management

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

**KSB** SupremeServ





## Our mission:

### Certified quality assurance

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





## Industry 4.0: we have experience with the future

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

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

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



## 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

Regional products	<p>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.</p>
Key to actuators	<p>In the Products section from page 25 the symbol  in conjunction with the relevant letter indicates the actuator type(s) available.</p> <ul style="list-style-type: none"><li> m = manual (lever, handwheel, etc.)</li><li> e = electric actuator</li><li> p = pneumatic actuator</li><li> h = hydraulic actuator</li></ul>
Trademark rights	<p>All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE &amp; Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.</p>



## Valves

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	25	■		■		■		
	BOA-Compact	25	■		■		■		
	BOA-Compact EKB	25	■	■	■		■		
	BOA-W	25	■		■		■		
Bellows-type globe valves to DIN/EN	BOA-H	26			■	■	■		
	BOA-H/HE/HV/HEV	26	■		■	■	■		
	NORI 40 ZXLBV/ZXSbv	26			■	■	■		
	NORI 40 ZXLB/ZXSB	26	■		■	■	■		
	NORI 40 ZYLB/ZYSB	26			■	■	■		
	BOACHEM-ZXAB	27	■		■	■	■		
Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	27	■		■	■			■
	ECOLINE GLB 800	27	■		■	■			■
Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	27			■	■	■		
	NORI 40 ZXLF/ZXSf	28	■		■	■	■		
	NORI 160 ZXL/ZXS	28			■	■			
	NORI 160 ZXLF/ZXSf	28	■		■	■			
	NORI 320 ZXSV	28	■		■	■			
	NORI 500 ZXSV	28	■		■	■			
	BOACHEM-ZXA	29			■		■		
	ECOLINE VA 16	29			■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	29	■		■	■			
	ECOLINE GLF 150-600	29	■		■	■			
	ECOLINE GLF 800	29	■		■	■			
	ECOLINE GLV 150-300	30	■		■	■			
	SICCA 150-600 GLC	30	■		■	■			
	SICCA 900-2500 GLC	30	■		■	■			
	SICCA 800-4500 GLF	30	■		■	■			
	WADA GL 150	30	■		■				
Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	31	■			■			
	ZXNB	31	■			■			
	ZXNVB	31				■			
	ZYNB/ZYN	31	■			■			
Automated globe valves to DIN/EN	BOA-H Mat E	32	■		■	■	■		
	BOA-H Mat P	32	■		■	■	■		
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB	32	■	■	■		■		
	BOA-CVE H	32	■		■	■	■		
	BOA-CVP H	33	■		■	■	■		
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	33	■	■	■		■		
	BOA-Control SAR	33			■		■		
Level control valves to DIN/EN	CONDA-VLC	34		■					
Pressure reducing valves to DIN/EN	CONDA-VRC	34		■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	34		■					
Air valves to DIN/EN	BOAVENT-AVF	35		■					
	BOAVENT-SIF	35		■					
	BOAVENT-SVA	35		■					
	BOAVENT-SVF	35		■					
Vent valves for nuclear applications	SISTO-VentNA	36				■	■		
	SISTO-KRVNA	36				■			

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Gate valves to DIN/EN	COBRA-SGP/SGO/SGF	36		■	■		■		
	COBRA-SMP	36		■	■		■		
	ECOLINE SP/SO	37		■	■		■		
	ECOLINE GT 40	37	■		■				
	STAAL 40 AKD/AKDS	37	■		■	■			
	STAAL 100 AKD/AKDS	37	■		■	■			
	AKG-A/AKGS-A	37	■		■	■			
	ZTS	38	■		■	■			
Gate valves to ANSI/ASME	ECOLINE GTB 800	38	■		■	■			■
	ECOLINE GTC 150-600	38	■		■	■			
	ECOLINE GTF 150-600	38	■		■	■			
	ECOLINE GTF 800	38	■		■	■			
	ECOLINE GTV 150-300	39	■		■	■			
	SICCA 150-600 GTC	39	■		■	■			
	SICCA 900-3600 GTC	39	■		■	■			
	SICCA 800-2500 GTF	39	■		■	■			
Gate valves for nuclear applications	WADA GT 150	39	■		■				
Body pressure relief valve	ZTN	40	■			■			
Knife gate valves to DIN/EN	UGS	40			■	■			
Knife gate valves to ANSI/ASME	HERA-BD	40	■	■	■		■	■	
	HERA-BDS	41	■	■	■			■	
	HERA-BHT	41	■	■	■			■	
	HERA-SH	41	■	■	■			■	
Lift check valves to DIN/EN	BOA-RPL	41		■			■		
	BOA-RFV	42		■	■		■		
	BOA-RVK	42			■	■	■		
	BOA-R	42			■	■	■		
	NORI 40 RXL/RXS	42			■	■	■		
	NORI 160 RXL/RXS	42			■	■			
	RGS	43			■	■			
	BOACHEM-RXA	43			■		■		
Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	43			■	■			
	ECOLINE PTF 800	43			■	■			
	SICCA 800-4500 PCF	43			■	■			
	WADA LC 150	44			■				
Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	44				■			
	RJN	44				■			
	RYN	44	■			■			
Swing check valves to DIN/EN	COBRA-SCBS	45		■	■		■		
	ECOLINE WT/WTI	45			■		■		
	STAAL 40 AKK/AKKS	45			■	■			
	STAAL 100 AKK/AKKS	45			■	■			
	AKR/AKRS	45			■	■			
	ZRS	46			■	■			
	SISTO-RSK/RSKS	46		■	■	■		■	
	SERIE 2000	46		■	■		■		
Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	46			■	■			
	ECOLINE SCF 150-600	46			■	■			
	ECOLINE SCF 800	47			■	■			
	ECOLINE SCV 150-300	47			■	■			
	SICCA 150-600 SCC	47			■	■			
	SICCA 900-3600 SCC	47			■	■			
	WADA SC 150	47			■				
Swing check valves for nuclear applications	SISTO-RSKNA	48				■			
	ZRN	48				■			

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	48		■	■	■			
Strainers to DIN/EN	BOA-S	48			■	■	■		
	NORI 40 FSL/FSS	49			■	■	■		
	BOACHEM-FSA	49			■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	49			■	■			
	ECOLINE FYF 800	49			■	■			
Centred-disc butterfly valves	BOAX-CBV13	50		■	■	■	■		
	BOAX-S/SF	50	■				■		
	BOAX-S/SF Gaz	50					■		
	BOAX-B	50	■	■	■		■		
	BOAX-B Gaz	50		■	■		■		
	BOAX-B DVGW	51		■	■		■		
	ISORIA 10/16	51	■	■	■	■		■	
	ISORIA 20/25	51	■	■	■	■	■		
	ISORIA 20 UL	51	■		■				
	MAMMOUTH	51	■	■	■	■			
	KE	52	■	■	■				
	APORIS	52		■	■	■			
Double-offset butterfly valves	DANAIS 150	52	■	■	■	■	■	■	
	DANAIS MTII	52	■		■	■		■	
	DANAIS TBTII	53	■		■				
	TRIODIS 150	53	■		■	■			
Triple-offset butterfly valves	TRIODIS 300	53	■		■	■			
	TRIODIS 600	53	■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	54	■			■			
Combined butterfly/check valves	DUALIS	54		■					
Single-piece ball valves	MP-CI/MP-II	54	■	■					
	PROFIN-VT1	54		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	55	■		■	■			■
	PROFIN-VT2L	55		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	55	■		■	■			■
	PROFIN-SI3FIT/-SI3IT/-SI3LIT	55	■	■	■		■		
	PROFIN-VT3/-VT3L/-VT3F/-VT33L	56		■	■		■		
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	56	■	■	■	■		■	
	SISTO-KBS	56	■	■	■	■		■	
	SISTO-10	56	■	■	■	■			
	SISTO-10M	57	■	■	■	■	■		
	SISTO-16	57	■	■	■	■			
	SISTO-16S	57	■	■	■	■			
	SISTO-16RGA	57		■			■		
	SISTO-16TWA/HWA/DLU	57	■	■			■		
	SISTO-20	58	■		■	■			■
	SISTO-C	58	■	■					■
	SISTO-20NA	58	■			■			
	SISTO-DrainNA	58				■			
Feed water bypass valves	ZJSVM/RJSVM	59	■		■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	59			■		■		
	ECOLINE GE4	59			■		■		



## Actuators

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

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	64	■	■	■			
	AMTROBOX EEx ia	64	■	■	■			
	AMTROBOX ATEX Zone 22	64	■	■	■			
	AMTROBOX F	64	■		■	■		
	AMTROBOX M	64	■	■	■	■		
	AMTROBOX R	65	■	■	■			
	AMTROBOX R EEx ia	65	■	■	■			
	AMTROBOX R Ex d	65	■	■	■			
ON/OFF valve controllers	AMTRONIC	65	■	■	■			
	AMTRONIC Ex ia	66	■	■	■			
Positioners	SMARTRONIC MA	66	■	■	■			
	SMARTRONIC AS-i	66	■	■	■			
Intelligent positioners	SMARTRONIC PC	67	■	■	■			

## Fluids handled

[illegible]

		NUCA/-A/-ES, Types I, II, IV	ZYNB/ZYN	ZXNB	ZXNVB		BOA-H Mat E	BOA-H Mat P		BOA-CVE C/CS/W/IMS/EKB	BOA-CVE H	BOA-CVP H		BOA-Control /BOA-Control IMS	BOA-Control SAR		CONDA-VLC		CONDA-VRC		CONDA-VSM		BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA		SISTO-VentNA	SISTO-KRVNA
Abrasive fluids	Globe 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		■	■	■</																									



## Fluids handled

[illegible]

[illegible]

## Fluids handled

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



Fluids handled

	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 SISTO-16RGA SISTO-16TWA/HWA/DLU SISTO-20 SISTO-C								SISTO-20NA SISTO-DrainNA		ZISVM/RJSVM		ECOLINE GE1/GE2/GE3 ECOLINE GE4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Single-piece ball valves		Two-piece ball valves		Three-piece ball valves								Soft-seated diaphragm valves to DIN/EN								Diaphragm valves for nuclear applications		Feed water bypass valves		Expansion and anti-vibration joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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## Applications

		Soft-seated globe valves to DINEN				Bellows-type globe valves to DINEN						Bellows-type globe valves to ANSI/ASME		Globe valves to DINEN 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/ZXS8B	NORI 40 ZYLB/ZYS8B	BOACHEM-ZXAB	ECOLINE GLB 150-600	ECOLINE GLB 800	NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXS8F	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXS8F	NORI 320 ZXS8V	NORI 500 ZXS8V	BOACHEM-ZXA	ECOLINE VA 16	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 800-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800	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																																	
Waste water treatment plants																																	
Air-conditioning systems																																	
Condensate transport																																	
Fossil-fuelled power stations																																	
Cooling circuits																																	
Paint shops																																	
Food and beverage industry																																	
Seawater desalination/reverse osmosis																																	
Mixing																																	
Paper and pulp industry																																	
Petrochemical industry																																	
Pharmaceutical industry																																	
Pipelines and tank farms																																	
Refineries																																	
Flue gas desulphurisation																																	
Rainwater harvesting																																	
Recirculation																																	
Shipbuilding																																	
Sludge disposal																																	
Sludge processing																																	
Snow-making systems																																	
Swimming pools																																	
Keeping in suspension																																	
Thermal oil circulation																																	
Process engineering																																	
Heat recovery systems																																	
Hot-water heating systems																																	
Washing plants																																	
Water treatment																																	
Water extraction																																	
Water supply																																	
Sugar industry																																	

Applications

		NUCA/-A/-ES, Types I, II, IV																				
		ZYNB/ZYN	ZXNB	ZXNVB		BOA-H Mat E	BOA-H Mat P											BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA	



## Applications

[illegible]

[illegible]

## Applications

		BOA-S	NORI 40 FSL/FSS	BOACHEM-FSA	ECOLINE FYC 150-600	ECOLINE FYF 800		BOAX-CBV13	BOAX-S/SF	BOAX-S/SF Gaz	BOAX-B	BOAX-B DVGW	BOAX-B Gaz	ISORIA 10/16	ISORIA 20/25	ISORIA 20 UL	MAMMOUTH	KE		APORIS	DANAIS 150	DANAIS MTII	DANAIS TBII		TRIODIS 150	TRIODIS 300	TRIODIS 600		CLOSSIA	DUALIS	
	Strainers to DIN/EN	■	■				Centred-disc butterfly valves	■	■		■	■		■						Double-offset butterfly valves					Triple-offset butterfly valves	■	■	■			
Spray irrigation		■	■					■	■		■	■		■							■		■			■	■	■			
Mining		■						■	■		■	■		■							■	■	■			■	■	■			
Irrigation								■	■		■	■		■				■					■			■	■	■			
Chemical industry		■	■	■				■	■		■	■		■				■			■	■	■			■	■	■			
Pressure boosting								■	■		■	■		■	■						■	■	■			■	■	■			
Disposal														■				■													
Drainage																															
Descaling units			■											■								■									
District heating																						■									
Solids transport																															
Fire-fighting systems														■				■													
Gas pipelines										■			■													■	■	■			
Gas storage facilities																									■	■	■				
Maintaining groundwater levels																															
Domestic water supply								■	■		■																				
HVAC systems									■																						
Homogenisation																															
Industrial recirculation systems														■				■			■	■			■	■	■				
Nuclear power stations			■																			■	■			■	■	■		■	
Boiler feed applications		■	■		■	■																				■	■	■			
Boiler recirculation		■	■																												
Waste water treatment plants																															
Air-conditioning systems								■	■		■	■										■	■			■	■	■			
Condensate transport		■	■	■																											
Fossil-fuelled power stations			■		■	■																■	■			■	■	■			
Cooling circuits														■	■			■			■					■	■	■			
Paint shops									■		■	■		■	■						■										
Food and beverage industry				■										■								■									
Seawater desalination/reverse osmosis														■	■			■			■										
Mixing														■																	
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

		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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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## Soft-seated globe valves to DIN/EN

### BOA-SuperCompact



PN  
DN  
T [°C]

6/16  
20 - 200  
≥ -10 - ≤ +120

**Description:**

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

**Applications:**

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



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000312>

### BOA-Compact



PN  
DN  
T [°C]

6/16  
15 - 200  
≥ -10 - ≤ +120

**Description:**

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.

**Applications:**

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



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000310>

### BOA-Compact EKB



PN  
DN  
T [°C]

10/16  
15 - 200  
≥ -10 - ≤ +80

**Description:**

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

**Applications:**

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



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000311>

### BOA-W



PN  
DN  
T [°C]

6/16  
15 - 200  
≥ -10 - ≤ +120

**Description:**

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.

**Applications:**

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






● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000309>






## 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 on/off disc or throttling plug, standard position indicator with colour coding for identification of valve design, replaceable valve disc; bellows protected when valve is in fully open position; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> Hot-water heating systems, high-temperature hot water heating systems, cooling circuits, heat transfer systems, general steam applications in building services and industry. Other fluids on request.	
	DN	15 - 350		
	T [°C]	≥ -10 - ≤ +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 on/off disc or throttling plug, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> 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 - ≤ +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 on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> 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 - ≤ +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 on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> 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 - ≤ +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, with replaceable throttling plug (up to DN 100) or on/off disc (DN 125 and above), single-piece non-rotating stem, position indicator, travel stop, locking device; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.  <b>Applications:</b> 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 - ≤ +450		
 m			<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
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

**Description:**

Bellows-type globe valve to DIN/EN with flanged ends, body made of stainless steel, with replaceable on/off disc or throttling plug.

**Applications:**

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



e, m, p

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

## Bellows-type globe valves to ANSI/ASME

## ECOLINE GLB 150-600



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

**Description:**

Globe valve to ANSI/ASME with flanged ends, cast steel/stainless steel body, trim and bellows made of stainless steel, with bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

**Applications:**

Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.



e, m

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

## ECOLINE GLB 800



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

**Description:**

Globe valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

**Applications:**

Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.



e, m

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

## Globe valves to DIN/EN with gland packing

## NORI 40 ZXL/ZXS



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

**Description:**

Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

**Applications:**



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






m

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



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 on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel. <b>Applications:</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN T [°C]	10 - 200 ≥ -10 - ≤ +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 on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. <b>Applications:</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN T [°C]	10 - 200 ≥ -10 - ≤ +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 on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. <b>Applications:</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN T [°C]	10 - 200 ≥ -10 - ≤ +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 ZXSV

	PN	250 - 320	<b>Description:</b> 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. <b>Applications:</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN T [°C]	10 - 50 ≥ -10 - ≤ +580		
<b>e, m, p</b>				

NORI 500 ZXSV

	PN	250 - 500	<b>Description:</b> 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. <b>Applications:</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN T [°C]	10 - 65 ≥ -10 - ≤ +650		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000350">http://shop.ksb.com/catalog/k0/en/product/ES000350</a>	

## BOACHEM-ZXA



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

**Description:**

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

**Applications:**

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



m

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

## ECOLINE VA 16



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

**Description:**

Globe valve to DIN/EN with flanged ends, body made of cast iron, with gland packing, rotating stem, with on/off disc or throttling plug.

**Applications:**

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



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
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +816

**Description:**

Globe valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets.

**Applications:**

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



e, m

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

## ECOLINE GLF 150-600



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

**Description:**

Globe valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, reduced bore.

**Applications:**

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



e, m

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

## ECOLINE GLF 800



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

**Description:**

Globe valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted bonnet (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.

**Applications:**

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



e, m

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

## ECOLINE GLV 150-300



Class  
NPS [inch]  
T [°C]

150 - 300  
½ - 12  
≥ 0 - ≤ +816

**Description:**

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.

**Applications:**

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



● e, m

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

## SICCA 150-600 GLC



Class  
NPS [inch]  
T [°C]

150 - 600  
2 - 10  
≥ 0 - ≤ +593

**Description:**

Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rotating, rising stem, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel.

**Applications:**

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



● e, m

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

## SICCA 900-2500 GLC



Class  
NPS [inch]  
T [°C]

900 - 2500  
2 - 8  
≥ 0 - ≤ +650

**Description:**

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

**Applications:**

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



● e, m

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

## SICCA 800-4500 GLF



Class  
NPS [inch]  
T [°C]

800 - 4500  
¼ - 2  
≥ 0 - ≤ +816

**Description:**

Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with bolted bonnet (Class 800) or welded bonnet (Class 1500/2500/4500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel and alloy steel.

**Applications:**

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



● e, m

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

## WADA GL 150



Class  
NPS [inch]  
T [°C]

150  
½ - 24  
≥ -196 - ≤ +100

**Description:**

Globe valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, with bolted bonnet, outside screw and yoke, Stellite hard-faced valve disc and back seat, with 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/ES000889>





## Globe valves for nuclear applications



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

	PN	≤ 320	<b>Description:</b> Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, replaceable seat (NUCA-ES), straight-way pattern, made of steel, stainless steel or nickel.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	10 - 50		
	T [°C]	≥ -29 - ≤ +365		
● e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000452">http://shop.ksb.com/catalog/k0/en/product/ES000452</a>	



### ZXNB

	PN	≤ 210	<b>Description:</b> Bellows-type globe valve with butt weld ends, for nuclear applications with safety-related requirements, in straight-way or angle pattern, or as a two-way valve, made of steel or stainless steel.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	65 - 300		
	T [°C]	≥ -29 - ≤ +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




	PN	≤ 210	<b>Description:</b> Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, straight-way pattern, made of steel or stainless steel.  <b>Applications:</b> Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.	
	DN	4 - 25		
	T [°C]	≥ -29 - ≤ +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




	PN	≤ 62	<b>Description:</b> Globe valve with butt weld ends, for nuclear applications with safety-related requirements, with gland packing or bellows, Y-valve, made of cast stainless steel.  <b>Applications:</b> Residual heat removal systems in nuclear applications.	
	DN	300 - 400		
	T [°C]	≥ -29 - ≤ +365		
● e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000331">http://shop.ksb.com/catalog/k0/en/product/ES000331</a>	

Automated globe valves to DIN/EN

BOA-H Mat E




	PN	16/25	<b>Description:</b> Automated globe valve to DIN/EN with flanged ends, with electric actuator and 3-point actuation, actuating forces from 2000 N to 14,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C). <b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.	
	DN	20 - 150		
	T [°C]	≥ -10 - ≤ +350		
 e			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000801">http://shop.ksb.com/catalog/k0/en/product/ES000801</a>	

BOA-H Mat P




	PN	16/25	<b>Description:</b> Automated globe valve to DIN/EN with flanged ends, with pneumatic actuator in spring-to-open or spring-to-close design on option, actuating forces from 1500 N to 26,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C). <b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.	
	DN	20 - 150		
	T [°C]	≥ -10 - ≤ +350		
	 p			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000885">http://shop.ksb.com/catalog/k0/en/product/ES000885</a>				

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, BOA-Control IMS and BOA-Control IMS EKB, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight, Kvs values between 6.3 and 700 m³/h and closing pressures of up to 16 bar. With intelligent microprocessor-controlled and pre-set electric actuators providing actuating forces from 1000 N to 14,000 N; electronic configuration of flow characteristic, Kvs value, actuating signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request. <b>Applications:</b> Hot-water heating systems up to 120 °C. Ventilation and air-conditioning systems. Water supply systems, drinking water. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron. Other fluids on request.	
	DN	15 - 200		
	T [°C]	≥ -10 - ≤ +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	16/25/40	<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 0.1 to 630 m³/h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with electric actuator.  <b>Applications:</b> General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.	
	DN	15 - 200		
	T [°C]	≥ -10 - ≤ +450		
 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	16/25/40
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

**Description:**

Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m³/h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with pneumatic actuator.

**Applications:**

General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.



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<http://shop.ksb.com/catalog/k0/en/product/ES000662>

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

## BOA-Control/BOA-Control IMS



PN	16
DN	15 - 350
T [°C]	≥ -10 - ≤ +120

**Description:****BOA-Control IMS:**

Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, permanent measurement set-up with BOATRONIC MS-420 measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control IMS EKB; up to DN 200).

**BOA-Control:**

Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB; up to DN 200).

**Applications:**

Hot-water heating systems up to 120 °C (BOA-Control and BOA-Control IMS), air-conditioning systems and cooling systems, and for permanent measurement set-ups (BOA-Control IMS), drinking water systems and industrial cooling circuits (EKB model). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated grey cast iron.



e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000323>

## BOA-Control SAR



PN	16
DN	10 - 50
T [°C]	≥ -25 - ≤ +150

**Description:**

Balancing valve to DIN/EN with female screwed ends; differential pressure measurement for flow metering with PFM 2000 measuring computer; digital travel position indicator with 40 settings, locking device and travel stop, maintenance-free.

**Applications:**

Hot-water heating systems up to 150 °C. Air-conditioning systems. Other fluids on request.





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<http://shop.ksb.com/catalog/k0/en/product/ES000324>



## Level control valves to DIN/EN

### CONDA-VLC

	PN	16	<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> Water supply systems, industry and building services. For controlling water levels.	
	DN	25 - 300		
	T [°C]	≥ -10 - ≤ +70		
<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	16/25/40/63	<b>Description:</b> 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. <b>Applications:</b> In water supply systems for controlling downstream pressure, in fire-fighting systems for reducing excess pressure caused by pumps, in irrigation systems, industry and building services as an efficient protection against water hammer.	
	DN	15 - 150		
	T [°C]	≥ -10 - ≤ +70		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000834">http://shop.ksb.com/catalog/k0/en/product/ES000834</a>			



## Pressure sustaining valves to DIN/EN

### CONDA-VSM



	PN	16/25/40	<b>Description:</b> 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. <b>Applications:</b> Controlling upstream pressure in water supply systems, irrigation systems or fire-fighting systems, in industry and building services.	
	DN	50 - 150		
	T [°C]	≥ -10 - ≤ +70		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000678">http://shop.ksb.com/catalog/k0/en/product/ES000678</a>				

## Air valves to DIN/EN



### BOAVENT-AVF

	PN	16	<b>Description:</b> Automatic air valve with two floats and three functions. Flanged ends, body made of nodular cast iron, double-chamber design with ABS floats. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions. <b>Applications:</b> Water supply, clean water, irrigation.	
	DN	50 - 300		
	T [°C]	≥ -10 - ≤ +120		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000831">http://shop.ksb.com/catalog/k0/en/product/ES000831</a>				



### BOAVENT-SIF

	PN	16	<b>Description:</b> Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of stainless steel, single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions. <b>Applications:</b> Water supply, clean water, irrigation.	
	DN	25 - 200		
	T [°C]	≥ -10 - ≤ +70		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000832">http://shop.ksb.com/catalog/k0/en/product/ES000832</a>				

### BOAVENT-SVA

	PN	16	<b>Description:</b> 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 piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions. <b>Applications:</b> Water supply, waste water, untreated waste water.	
	DN	50 - 200		
	T [°C]	≥ -10 - ≤ +60		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000833">http://shop.ksb.com/catalog/k0/en/product/ES000833</a>				



### BOAVENT-SVF

	PN	16/25/40	<b>Description:</b> Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of nodular cast iron (PN 16-40) or carbon steel (PN 64), single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions. <b>Applications:</b> Water supply, clean water, irrigation.	
	DN	25 - 300		
	T [°C]	≥ -10 - ≤ +70		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000832">http://shop.ksb.com/catalog/k0/en/product/ES000832</a>				





## Vent valves for nuclear applications

### SISTO-VentNA




	PN	16	<b>Description:</b> Vent valve for nuclear applications, with butt weld ends, soft-seated. <b>Applications:</b> Heating systems, air-conditioning systems.		
	DN	15			
	T [°C]	≥ -20 - ≤ +100			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000842">http://shop.ksb.com/catalog/k0/en/product/ES000842</a>					

### SISTO-KRVNA




	PN	16	<b>Description:</b> Vent valve with flanged or butt weld ends, for nuclear applications, soft-seated, with floating ball. <b>Applications:</b> Tank venting, drainage systems.		
	DN	25 - 100			
	T [°C]	≥ -20 - ≤ +100			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000839">http://shop.ksb.com/catalog/k0/en/product/ES000839</a>					

## Gate valves to DIN/EN

### COBRA-SGP/SGO/SGF

	PN	16	<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 systems, water treatment systems, air-conditioning systems.		
	DN	25 - 600			
	T [°C]	≥ -10 - ≤ +110			
<div> e, m</div> <a href="http://shop.ksb.com/catalog/k0/en/product/ES000828">http://shop.ksb.com/catalog/k0/en/product/ES000828</a>					

### COBRA-SMP

	PN	16	<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 industrial applications, building services.	
	DN	40 - 300		
	T [°C]	≥ -10 - ≤ +110		
		<div> e, m</div> <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 10/16/25  
DN 40 - 600  
T [°C]  $\geq -10 - \leq +110$

**Description:**

Gate valve to DIN/EN with flanged ends, bolted bonnet, metal-seated, rotating stem, inside screw, body made of cast iron, seats made of brass.

**Applications:**

Water supply systems, heating systems, air-conditioning systems, general industrial applications, water engineering, building services.



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000654>

## ECOLINE GT 40



PN 10 - 40  
DN 50 - 800  
T [°C]  $\geq -10 - \leq +400$

**Description:**

Gate valve to DIN/EN with flanged ends or butt weld ends, bolted bonnet, body made of cast steel, non-rotating stem, with flexible wedge, seat/disc interface made of wear and corrosion resistant 13 % chrome steel or Stellite.

**Applications:**

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



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000676>

## STAAL 40 AKD/AKDS



PN 10 - 40  
DN 50 - 600  
T [°C]  $\geq -10 - \leq +450$

**Description:**

Gate valve to DIN/EN with flanged or butt weld ends, with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

**Applications:**

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



● e, m

<http://shop.ksb.com/catalog/k0/en/product/ES000469>

## STAAL 100 AKD/AKDS



PN 63 - 100  
DN 50 - 500  
T [°C]  $\geq -10 - \leq +530$

**Description:**

Gate valve to DIN/EN with flanged or butt weld ends, with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

**Applications:**

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



● e, m, p

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

## AKG-A/AKGS-A



PN 63 - 160  
DN 80 - 300  
T [°C]  $\geq -10 - \leq +550$

**Description:**

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.

**Applications:**



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/ES000371>

## ZTS



	PN	≤ 600	<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> 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 [inch]	2 - 32		
	T [°C]	≥ -10 - ≤ +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	150-800	<b>Description:</b> Gate valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets. <b>Applications:</b> Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.	
	NPS [inch]	1/2 - 2		
	T [°C]	≥ 0 - ≤ +427		
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	150 - 600	<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 plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	2 - 36		
	T [°C]	≥ 0 - ≤ +816		
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	150 - 600	<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.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +816		
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

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

150 - 300  
½ - 12  
≥ 0 - ≤ +816

**Description:**

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.

**Applications:**

Fine chemicals, food industry, general industry; water, steam, gas and other fluids.



● e, m

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

## SICCA 150-600 GTC



Class  
NPS [inch]  
T [°C]

150 - 600  
2 - 24  
≥ 0 - ≤ +593

**Description:**

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

**Applications:**

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



● e, m

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

## SICCA 900-3600 GTC



Class  
NPS [inch]  
T [°C]

900 - 3600  
2 - 28  
≥ 0 - ≤ +650

**Description:**

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

**Applications:**

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



● e, m

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

## SICCA 800-2500 GTF



Class  
NPS [inch]  
T [°C]

800 - 2500  
¼ - 2  
≥ 0 - ≤ +816

**Description:**

Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with bolted bonnet (Class 800) or welded bonnet (Class 1500/2500), solid wedge, outside screw and yoke, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

**Applications:**

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



● e, m

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

## WADA GT 150



Class  
NPS [inch]  
T [°C]

150  
½ - 18  
≥ -196 - ≤ +100

**Description:**

Gate valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, with 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

	PN	≤ 320	<b>Description:</b> Gate valve with butt weld ends, for nuclear applications, with bolted or pressure seal bonnet, forged or welded body, non-rotating stem, in split-wedge or parallel-disc design, made of steel or stainless steel. <b>Applications:</b> Reactor cooling, safety feed, feed water, live steam, cleaning and condensate systems.	
	DN	80 - 700		
	T [°C]	≥ -29 - ≤ +365		
e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000456">http://shop.ksb.com/catalog/k0/en/product/ES000456</a>	



## Body pressure relief valves

### UGS

	PN	≥ 40	<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> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	15		
<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	10	<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> Industrial plants, waste water engineering, process engineering and food industry. For water, waste water and solids-laden fluids. Other fluids on request.	
	DN	50 - 1200		
	T [°C]	≥ -10 - ≤ +120		
e, m, p			<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	150
DN	50 - 600
T [°C]	≥ -10 - ≤ +120

**Description:**  
Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel; bi-directional, with gland packing, rubber-lined, rising stem, non-rising handwheel.

**Applications:**  
Primarily in mining for handling slurries, abrasive fluids and high-density fluids; also in pulp applications, cement plants, sewage treatment plants and the chemical industry. Other fluids on request.



● e, m, p

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

### HERA-BHT



Class	150
DN	80 - 600
T [°C]	≥ -10 - ≤ +100

**Description:**  
Knife gate valve to ANSI/ASME with semi-lug body made of carbon steel or stainless steel, bi-directional, with gland packing, through-going blade, rising stem, non-rising handwheel, robust yoke for actuator mounting as standard.

**Applications:**  
Primarily in mining for handling slurries and high-density fluids; excellent flow characteristic due to through-going blade; also in pulp applications and water applications. Other fluids on request.



● e, m, p

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

### HERA-SH



Class	150
DN	50 - 1000
T [°C]	≥ -10 - ≤ +180

**Description:**  
Knife gate valve to ANSI/ASME with full-lug single-piece body made of carbon steel or stainless steel; uni-directional, with gland packing, rising stem, non-rising handwheel.

**Applications:**  
Industrial plants and waste water engineering, pulp and paper industry, food and beverage industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.



● e, m, p

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

## Lift check valves to DIN/EN

### BOA-RPL



PN	10/16
DN	25 - 400
T [°C]	≥ -10 - ≤ +70



**Description:**  
Ball check valve to DIN/EN with flanged or female/female-threaded ends, made of nodular cast iron, NBR-coated ball, bolted cover, suitable for installation in vertical or horizontal pipes.

**Applications:**  
Water supply systems, water treatment systems, waste water.





<http://shop.ksb.com/catalog/k0/en/product/ES000635>



## BOA-RFV

	PN	10/16/25/40/63	<b>Description:</b> Nozzle check valve to DIN/EN with flanged ends, Venturi-type body, max. flow velocity 2.5 m/s. Body made of cast iron, check disc made of brass and cast iron, seat made of stainless steel. Suitable for installation in horizontal or vertical pipes. Rapid closure without surge pressures. <b>Applications:</b> Water supply systems, heating systems, air-conditioning systems.	
	DN	40 - 600		
	T [°C]	≥ -10 - ≤ +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 - ≤ +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 - ≤ +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> 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 - ≤ +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> 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 - ≤ +550		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000360">http://shop.ksb.com/catalog/k0/en/product/ES000360</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> 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 - ≤ +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	<b>Description:</b> Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface. <b>Applications:</b> Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +400		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000366">http://shop.ksb.com/catalog/k0/en/product/ES000366</a>				

## Lift check valves to ANSI/ASME



## ECOLINE PTF 150-600

	Class	150 - 600	<b>Description:</b> 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.  <b>Applications:</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +816		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000424">http://shop.ksb.com/catalog/k0/en/product/ES000424</a>			


## ECOLINE PTF 800

	Class	800	<b>Description:</b> 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. <b>Applications:</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +593		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000374">http://shop.ksb.com/catalog/k0/en/product/ES000374</a>			

## SICCA 800-4500 PCF



	Class	800 - 4500	<b>Description:</b> Lift check valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with spring-loaded valve disc, bolted cover (Class 800) or welded cover (Class 1500/2500/4500), Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gasket. Available in carbon steel and alloy steel.  <b>Applications:</b> Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.  <a href="http://shop.ksb.com/catalog/k0/en/product/ES000481">http://shop.ksb.com/catalog/k0/en/product/ES000481</a>	
	NPS [inch]	¼ - 2		
	T [°C]	≥ 0 - ≤ +816		

WADA LC 150

	Class	150	<b>Description:</b> Lift check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, with bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets. <b>Applications:</b> Natural gas liquefaction and other liquefied gases.
	NPS [inch] T [°C]	½ - 8 ≥ -196 - ≤ +100	



Lift check valves for nuclear applications

NUCA/-A/-ES, Type V

	PN	≤ 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 T [°C]	10 - 50 ≥ -29 - ≤ +365		



<http://shop.ksb.com/catalog/k0/en/product/ES000455>

RJN

	PN	≤ 140	<b>Description:</b> Damped lift check valve with butt weld ends, for nuclear applications, individually selectable damping characteristic, made of steel or stainless steel. <b>Applications:</b> Feed water and live steam systems.	
	DN T [°C]	80 - 600 ≥ -29 - ≤ +300		

<http://shop.ksb.com/catalog/k0/en/product/ES000459>



RYN

	PN	≤ 210	<b>Description:</b> Combined lift check/shut-off valve with butt weld ends, for nuclear applications, Y-pattern, with gland packing or bellows, made of steel or stainless steel. <b>Applications:</b> Feed water and live steam systems.	
	DN T [°C]	65 - 300 ≥ -29 - ≤ +365		



<http://shop.ksb.com/catalog/k0/en/product/ES000333>

## 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 systems, water treatment systems and water distribution systems, waste water, irrigation, drinking water, seawater, air, gas, oil.	
	DN	50 - 300		
	T [°C]	≥ -10 - ≤ +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	<b>Description:</b> 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. <b>Applications:</b> Irrigation systems, district heating, domestic water supply, sewage treatment plants, air-conditioning systems, cooling circuits, water supply systems.	
	DN	50 - 300		
	T [°C]	≥ -10 - ≤ +110		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000638">http://shop.ksb.com/catalog/k0/en/product/ES000638</a>				



### STAAL 40 AKK/AKKS

	PN	10 - 40	<b>Description:</b> Swing check valve to DIN/EN with flanged or butt weld ends, with bolted cover, internally mounted hinge pin, body of welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel. <b>Applications:</b> 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 - 400		
	T [°C]	≥ -10 - ≤ +450		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000471">http://shop.ksb.com/catalog/k0/en/product/ES000471</a>				

### STAAL 100 AKK/AKKS

	PN	63 - 100	<b>Description:</b> Swing check valve to DIN/EN with flanged or butt weld ends, with bolted cover, internally mounted hinge pin, body of forged or welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. <b>Applications:</b> 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 - 400		
	T [°C]	≥ -10 - ≤ +530		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000391">http://shop.ksb.com/catalog/k0/en/product/ES000391</a>				

### AKR/AKRS

	PN	63 - 160	<b>Description:</b> 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. <b>Applications:</b> 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 - ≤ +550		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000394">http://shop.ksb.com/catalog/k0/en/product/ES000394</a>			

## ZRS



PN	≤ 600
DN	50 - 800
T [°C]	≥ -10 - ≤ +650

**Description:**

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

**Applications:**

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



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

## SISTO-RSK/RSKS



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

**Description:**

Swing check valve to DIN/EN with flanged ends, body with or without lining, soft-seated, no dead volumes, straight-way pattern, full bore, slanted seat, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure.

**Applications:**

Building services, industry and power stations; suitable for drinking water, service water, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.



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

## SERIE 2000



PN	16/25
Class	150/300
DN	50 - 600
T [°C]	≥ -196 - ≤ +538

**Description:**

Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel, stainless steel or copper aluminium alloy, metal/elastomer-seated or metal/metal-seated, maintenance-free, connections to EN, ASME or JIS.

**Applications:**

Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas. Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons.



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

## Swing check valves to ANSI/ASME

## ECOLINE SCC 150-600



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

**Description:**

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

**Applications:**

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



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

## ECOLINE SCF 150-600



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

**Description:**

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

**Applications:**

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



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



## ECOLINE SCF 800



Class	800	<b>Description:</b>
NPS [inch]	½ - 2	Swing check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), internally mounted hinge pin, available in carbon steel and alloy steel.
T [°C]	≥ 0 - ≤ +593	<b>Applications:</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.



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

## ECOLINE SCV 150-300



Class	150 - 300	<b>Description:</b>
NPS [inch]	½ - 12	Swing check valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted cover, integral seat, stainless steel/graphite gaskets.
T [°C]	≥ 0 - ≤ +816	<b>Applications:</b> Fine chemicals, food industry and general industry. For water, steam, gas and other fluids. Other fluids on request.



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

## SICCA 150-600 SCC



Class	150 - 600	<b>Description:</b>
NPS [inch]	2 - 24	Swing check valve to ANSI/ASME with flanged or butt weld ends, with bolted cover, internally mounted hinge pin. Bigger nominal sizes with anti-slam/dash pot arrangement (optional), graphite gaskets. Stellite hard-faced seat/disc interface made of 13 % chrome steel. Available in carbon steel, low-alloy steel and stainless steel.
T [°C]	≥ 0 - ≤ +593	<b>Applications:</b> Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.



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

## SICCA 900-3600 SCC



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



<http://shop.ksb.com/catalog/k0/en/product/ES000487>

## WADA SC 150





Class	150	<b>Description:</b>
NPS [inch]	1 - 24	Swing check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, with bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets.
T [°C]	≥ -196 - ≤ +100	<b>Applications:</b> Natural gas liquefaction and other liquefied gases.





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

## 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, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure. <b>Applications:</b> Waste water systems, pump systems.	
	DN	25 - 300		
	T [°C]	≥ -20 - ≤ +100		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000838">http://shop.ksb.com/catalog/k0/en/product/ES000838</a>			

### ZRN

	PN	≤ 320	<b>Description:</b> Swing check valve for nuclear applications, with butt weld ends, with bolted cover, internally mounted hinge pin, forged body made of steel or stainless steel. <b>Applications:</b> Safety feed, feed water, live steam and condensate systems.	
	DN	50 - 600		
	T [°C]	≥ -29 - ≤ +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



	PN	10/16/25	<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. <b>Applications:</b> Water supply systems	
	DN	100 - 1000		
	T [°C]	≥ -10 - ≤ +70		
<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	6/16/25	<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.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +350		
	<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	25/40	<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 insert.  <b>Applications:</b> 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 - ≤ +450		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000523">http://shop.ksb.com/catalog/k0/en/product/ES000523</a>			

## BOACHEM-FSA



	PN	10 - 40	<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 beverage industries, for aggressive fluids. Other fluids on request.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +400		
	<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	<b>Description:</b> 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.  <b>Applications:</b> Refineries, power stations, process engineering and general industry; water, steam, oil, gas. Other fluids on request.	
	NPS [inch]	2 - 12		
	T [°C]	≥ 0 - ≤ +816		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000665">http://shop.ksb.com/catalog/k0/en/product/ES000665</a>			

### ECOLINE FYF 800

	Class	800	<b>Description:</b> 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.  <b>Applications:</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +816		
	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000666">http://shop.ksb.com/catalog/k0/en/product/ES000666</a>			

## Centred-disc butterfly valves

### BOAX-CBV13



PN	10/16
DN	50 - 1200
T [°C]	≥ -10 - ≤ +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 systems, water treatment systems and water distribution systems, waste water, irrigation, ultra-pure water, air, oil.



● e, m, p

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

### BOAX-S/SF



PN	6/10/16
DN	20 - 600
T [°C]	≥ -10 - ≤ +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 electric actuator (BOAXMAT-S and BOAXMAT-SF models); semi-lug body (T2) or 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.



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

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

### BOAX-S/SF Gaz



PN	≤ 10
DN	20 - 600
T [°C]	≥ -20 - ≤ +60

**Description:**  
Centred-disc butterfly valve for gas lines, with elastomer liner (epichlorohydrin EG), with yellow lever; semi-lug body (T2), full-lug body (T4). Valve disc made of stainless steel 1.4308, connections to EN.

**Applications:**  
Gas lines



● m

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

### BOAX-B



PN	10/16
DN	40 - 1000
T [°C]	≥ -10 - ≤ +110

**Description:**  
Centred-disc butterfly valve, sealed by elastomer liner (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. Connections to EN, ASME or JIS.

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



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

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

### BOAX-B Gaz



PN	10/16
DN	40 - 300
T [°C]	≥ -20 - ≤ +90

**Description:**  
Centred-disc butterfly valve, sealed by elastomer liner (epichlorohydrin EG or nitrile K), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron. Connections to EN.




**Applications:**  
Gas pipes to NF ROB.GAZ N°095.00






● m

<http://shop.ksb.com/catalog/k0/en/product/ES000574>



## BOAX-B DVGW

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




## ISORIA 10/16

	PN	10/16	<b>Description:</b> Centred-disc butterfly valve, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Wafer-type body (T1), semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.	
	DN	40 - 1000		
	T [°C]	≥ -10 - ≤ +200		
	<b>Applications:</b> Shut-off and control duties in all industrial and energy sectors.			
 e, m, h, p + AMTROBOX/AMTRONIC/SMARTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000377">http://shop.ksb.com/catalog/k0/en/product/ES000377</a>	




## ISORIA 20/25

	PN	20/25	<b>Description:</b> Centred-disc butterfly valve, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2, T4 and T5 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.	
	DN	32 - 1000		
	T [°C]	≥ -10 - ≤ +200		
	<b>Applications:</b> Shut-off and control duties in all industrial and energy sectors.			
e, m, h, p + AMTROBOX/AMTRONIC/SMARTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000379">http://shop.ksb.com/catalog/k0/en/product/ES000379</a>	




## ISORIA 20 UL

	PN	16	<b>Description:</b> Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox; semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME or JIS. Underwriter Laboratories (UL) approved.	
	DN	40 - 700		
	T [°C]	≥ -10 - ≤ +200		
	<b>Applications:</b> Fire protection			
 m			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000379">http://shop.ksb.com/catalog/k0/en/product/ES000379</a>	

## MAMMOUTH




	PN	6/10/16/20/25	<b>Description:</b> Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox, electric, hydraulic or counterweight actuator, U-section body with flat faces (T5), connections to EN, ASME or JIS.	
	DN	1050 - 4000		
	T [°C]	≥ 0 - ≤ +80		
	<b>Applications:</b> 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			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000382">http://shop.ksb.com/catalog/k0/en/product/ES000382</a>	

## KE




	PN	10	<b>Description:</b> Centred-disc butterfly valve with PFA liner for the chemical industry. With lever, manual gearbox, pneumatic or electric actuator. With wafer-type body (T1), full-lug body (T4) or U-section body with raised faces (T6). Connections to EN, ASME or JIS.	
	DN	40 - 600		
	T [°C]	≥ -20 - ≤ +200	<b>Applications:</b> Highly corrosive fluids: toxic and highly corrosive fluids which cannot be handled by metals or elastomers, thus requiring the sole use of PFA. Moderately corrosive and aggressive fluids allowing the use of a PFA liner in combination with a stainless steel valve disc. Fluids requiring absolutely safe handling.	
 e, m, h, p + AMTROBOX/AMTRONIC/SMARTRONIC			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000380">http://shop.ksb.com/catalog/k0/en/product/ES000380</a>	

## Double-offset butterfly valves




## APORIS

	PN	10/16/25	<b>Description:</b> 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.	
	DN	100 - 2000		
	T [°C]	≥ -10 - ≤ +85	<b>Applications:</b> Shut-off or control duties; drinking water, seawater, air, water engineering.	
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000930">http://shop.ksb.com/catalog/k0/en/product/ES000930</a>	

## DANAİS 150

	PN	≤ 25	<b>Description:</b> Double-offset butterfly valve, with plastomer seat (also in fire-safe design), metal seat or elastomer seat (FKM [VITON R] or NBR [nitrile]). Lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of nodular cast iron, cast steel, stainless steel, aluminium bronze or duplex stainless steel (254 SMO). Wafer-type body (T1), full-lug body (T4), T4 suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME or JIS. Fire-safe design tested and certified to API 607. Fugitive emissions performance tested and certified to EN ISO 15848-1. ATEX-compliant version in accordance with Directive 2014/34/EU.  <b>Applications:</b> 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.	
	Class	150		
	DN	50 - 1200		
	T [°C]	≥ -50 - ≤ +260		
 e, m, h, p + AMTROBOX/AMTRONIC/SMARTRONIC				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000427">http://shop.ksb.com/catalog/k0/en/product/ES000427</a>	

## DANAİS MTII

	PN	25/50	<b>Description:</b> Double-offset butterfly valve with plastomer seat or metal seat (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator, body made of steel or stainless steel. Wafer-type body (T1), full-lug body (T4) or flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Certified to German TA-Luft Technical Guidelines on Air Quality Control.  <b>Applications:</b> Petroleum, gas, chemical and petrochemical industry, nuclear power stations, onshore and offshore plants. Steam, vacuum and all applications requiring offset-disc butterfly valves.	
	Class	150/300		
	DN	50 - 600		
	T [°C]	≥ -50 - ≤ +260		
 e, m, h, p + AMTROBOX/AMTRONIC/SMARTRONIC				
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000381">http://shop.ksb.com/catalog/k0/en/product/ES000381</a>				



## DANAİS TBTII



PN	10/20
Class	150
DN	50 - 1200
T [°C]	≥ -196 - ≤ +200

**Description:**  
Double-offset butterfly valve for cryogenic applications; full-lug body (T4), flanged body (T7) with flat or raised faces, or body with butt weld ends made of stainless steel to ASME Class 150, JIS, fire-safe design. On request degreased for oxygen service. Manual gearbox, pneumatic, electric or hydraulic actuator.

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



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

<http://shop.ksb.com/catalog/k0/en/product/E5000815>

## Triple-offset butterfly valves

## TRIODIS 150



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

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 10S, 10, STD and XS to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

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



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

<http://shop.ksb.com/catalog/k0/en/product/E5000816>

## TRIODIS 300



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

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 40S and STD to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

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



• m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/E5000817>

## TRIODIS 600



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

**Description:**  
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to BS 6775-2. ATEX-compliant in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

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





• m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/E5000818>



Butterfly valves for nuclear applications

CLOSSIA

	PN	≤ 5,5	<b>Description:</b> Double-offset butterfly valve, metal-seated, maintenance-free. Steel body with one flanged and one weld end connection. With safety actuator with manual, pneumatic or electric actuation. <b>Applications:</b> In the containment of nuclear power stations.	
	DN	250/500/750/1000		
	T [°C]	≥ -20 - ≤ +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>	



Combined butterfly/check valve

DUALIS



	DN	500 - 1400	<b>Description:</b> Combined butterfly/check valve with single-acting hydraulically controlled counterweight actuator. For mounting on valves with DN 500 to 1400. <b>Applications:</b> For installation in the pump discharge lines of pumping stations. Power station cooling circuits. Protects pipelines and turbines.	
	T [°C]	≥ -10 - ≤ +65		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000905">http://shop.ksb.com/catalog/k0/en/product/ES000905</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 - ≤ +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 - ≤ +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 - ≤ +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 - ≤ +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 - ≤ +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> Spray irrigation systems, irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, artificial snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.	
	DN	15 - 100		
	T [°C]	≥ -10 - ≤ +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> Spray irrigation systems, irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, artificial snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.	
	DN	8 - 100		
	T [°C]	≥ -10 - ≤ +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; hydraulically favourable body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. <b>Applications:</b> Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.	
	DN	15 - 200		
	T [°C]	≥ -20 - ≤ +140		
			<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; hydraulically favourable body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. <b>Applications:</b> Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.	
	DN	15 - 200		
	T [°C]	≥ -20 - ≤ +140		
	 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. <b>Applications:</b> Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.	
	DN	15 - 300		
	T [°C]	≥ -20 - ≤ +160		
 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
DN	15 - 80
T [°C]	≥ -10 - ≤ +140

**Description:**

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.

**Applications:**

Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000513>

## SISTO-16



PN	16
DN	15 - 200
T [°C]	≥ -10 - ≤ +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:**

Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.



● e, m, p

<http://shop.ksb.com/catalog/k0/en/product/ES000316>

## SISTO-16S



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

**Description:**

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

**Applications:**

Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.



● e, m, p

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

## SISTO-16RGA



PN	16
DN	15 - 80
T [°C]	≥ -10 - ≤ +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 - ≤ +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	<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. <b>Applications:</b> Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.	
	DN	15 - 200		
	T [°C]	≥ -20 - ≤ +160		
 e, m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000317">http://shop.ksb.com/catalog/k0/en/product/ES000317</a>	

SISTO-C




	PN	16	<b>Description:</b> Diaphragm valve with butt weld ends or clamps; straight-way, Y or T pattern, or as a multi-port valve; shut-off and sealing to atmosphere by completely enclosed diaphragm. No dead volumes, suitable for sterilisation, SIP/CIP-compliant design, position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. <b>Applications:</b> Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.	
	DN	6 - 100		
	T [°C]	≥ -20 - ≤ +160		
 m, p			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000320">http://shop.ksb.com/catalog/k0/en/product/ES000320</a>	

Diaphragm valves for nuclear applications

SISTO-20NA

	PN	20	<b>Description:</b> Diaphragm valve with butt weld ends, for nuclear applications, shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. <b>Applications:</b> Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.	
	DN	8 - 150		
	T [°C]	≥ -20 - ≤ +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 with butt weld ends, for nuclear applications; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. <b>Applications:</b> Heating systems, air-conditioning systems, auxiliary systems.	
	DN	15 - 25		
	T [°C]	≥ -20 - ≤ +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	≤ 600
DN	100 - 800
T [°C]	≥ -10 - ≤ +450

**Description:**

Feed water bypass valve to DIN/EN with butt weld ends, pressure seal design, billet-forged body, Z or T pattern, seat/disc interface made of wear and corrosion resistant Stellite, controlled by process fluid.

**Applications:**

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

■ e, m, p

## Expansion and anti-vibration joints

### ECOLINE GE1/GE2/GE3



PN	16
DN	15 - 300
T [°C]	≥ -10 - ≤ +105

**Description:**

Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel.

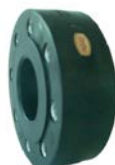
**Applications:**

Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.



<http://shop.ksb.com/catalog/k0/en/product/ES000687>

### ECOLINE GE4



PN	16
DN	20 - 200
T [°C]	≥ -10 - ≤ +100

**Description:**

Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.

**Applications:**



Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.





<http://shop.ksb.com/catalog/k0/en/product/ES000681>

Levers

CR/CM



	T [°C] ≥ -20 - ≤ +80	<p><b>Description:</b> Lever made of ductile cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions) and CM type series: same as CR, with special coating.</p> <p><b>Applications:</b> All applications in building services, water engineering, energy engineering, and industry.</p>	
<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 - ≤ +80	<p><b>Description:</b> Lever made of light metal alloy; type series S: locks in limit positions (open and closed), type series SR: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), type series SP: locks in any position.</p> <p><b>Applications:</b> All applications in water engineering, energy engineering, and industry.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000501">http://shop.ksb.com/catalog/k0/en/product/ES000501</a>			

Manual gearboxes

MN



	Output torque [Nm] Enclosure T [°C] ≤ 250 IP67 ≥ -20 - ≤ +80	<p><b>Description:</b> Manual actuator for operating quarter-turn valves. MN range manual gearbox, irreversible worm gear kinematics, handwheel-operated.</p> <p><b>Applications:</b> Building services, general industrial applications, water and industrial processes in non-corrosive and non-saline environments.</p>	
<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] Enclosure T [°C] ≤ 16000 IP67/IP68 ≥ -20 - ≤ +80	<p><b>Description:</b> Heavy-duty manual actuator for operating quarter-turn valves. MR range manual gearbox, irreversible worm gear or patented AMRI yoke kinematics. Handwheel-operated as standard. Models MR 400 to 1600 can be fitted with actuators. Options include alternative operating mechanisms, limit switch box, low-temperature version, etc.</p> <p><b>Applications:</b> Building services, industry and process engineering, water management, waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000504">http://shop.ksb.com/catalog/k0/en/product/ES000504</a>	

## Electric actuators



### ACTELEC (BERNARD CONTROLS)

	Quarter-turn actuator	AQ1L - SQ120	<b>Description:</b> Electric actuators by BERNARD CONTROLS for direct mounting on quarter-turn valves (actuator flange to ISO 5211) with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.  <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Multi-turn actuator	31 - 800		
	Enclosure	IP67		
	Output torque [Nm]	≤ 8000		
	T [°C]	≥ -20 - ≤ +80		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>				

### ACTELEC (AUMA)




	Quarter-turn actuator	SQ 05.2 - SQ 12	<b>Description:</b> Electric actuators by AUMA for direct mounting on quarter-turn valves (actuator flange to ISO 5211) with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.  <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Multi-turn actuator	31 - 1600		
	Enclosure	IP67		
	Output torque [Nm]	≤ 16000		
<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.  <b>Applications:</b> Building services, industry, power stations, food industry, chemical industry.	
	Multi-turn actuator	IP67		
	Enclosure	≤ 250		
	Output torque [Nm]			
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000405">http://shop.ksb.com/catalog/k0/en/product/ES000405</a>				




## Hydraulic actuators

### HQ




	Output torque [Nm]	≤ 55000	<b>Description:</b> Single-acting or double-acting hydraulic actuator (gas cartridge or spring) for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 160 bar. Mounts on valve stems with square end or flat end. Force transmission via rack-and-pinion or scotch-yoke kinematics provides output torques of up to 55,000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Optional manual override. Can be equipped with a hydraulic power unit: for shut-off, as a safety block, ESD block, as a bypass device enabling manual override. Can be combined with all limit switch boxes of the AMTROBOX/AMTROBOX R type series.  <b>Applications:</b> Marine	
	Enclosure	IP68		
	T [°C]	≥ -45 - ≤ +100		
 <a href="http://shop.ksb.com/catalog/k0/en/product/ES000924">http://shop.ksb.com/catalog/k0/en/product/ES000924</a>				

## Pneumatic actuators



### ACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar	≤ 8000	<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 or flat end. Force transmission via scotch-yoke kinematics provides output torques of up to 8000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/ VDE 3845. <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Enclosure T [°C]	IP68 ≥ -50 - ≤ +150		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000411">http://shop.ksb.com/catalog/k0/en/product/ES000411</a>	



### DYNACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar	≤ 4000	<b>Description:</b> 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 or flat end. Force transmission via scotch-yoke kinematics provides output torques of up to 4000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position in case of control air failure is effected by means of spring assemblies. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845. <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Enclosure T [°C]	IP68 ≥ -50 - ≤ +150		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000412">http://shop.ksb.com/catalog/k0/en/product/ES000412</a>	



### SISTO-LAD

	Control air pressure [bar]	≤ 6	<b>Description:</b> Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.	
	Closing force [N]	≤ 20000		
			<b>Applications:</b> Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000805">http://shop.ksb.com/catalog/k0/en/product/ES000805</a>				

### SISTO-LAP



	Control air pressure [bar]	5,5 - 10	<b>Description:</b> Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Actuator flange to DIN/ISO 5210. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run. <b>Applications:</b> Building services, industry, power stations, the food and beverage industries and the chemical industry. The pneumatic actuators can also be used in potentially explosive atmospheres.	
	Closing force [N]	≤ 250000		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000409">http://shop.ksb.com/catalog/k0/en/product/ES000409</a>				

# SISTO-C LAP

	<p>Control air pressure [bar] Closing force [N]</p> <p>5,5 - 7 ≤ 20000</p>	<p><b>Description:</b> 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.</p> <p><b>Applications:</b> Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000320">http://shop.ksb.com/catalog/k0/en/product/ES000320</a>			



# Actuator accessories

## RMD



	<p>Enclosure T [°C]</p> <p>IP65 ≥ -20 - ≤ +80</p>	<p><b>Description:</b> Manual override using a declutchable gear operator with handwheel for mounting on ACTAIR NG double-acting pneumatic actuators, DYNACTAIR NG single-acting pneumatic actuators and HQ single-acting or double-acting hydraulic actuators. The manual override is fitted between the valve and the actuator. The manual override has priority over the pneumatic or hydraulic actuator and is locked either in clutched or declutched position using the locking device.</p> <p><b>Applications:</b> All applications in water engineering, energy engineering, and industry.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000906">http://shop.ksb.com/catalog/k0/en/product/ES000906</a>			

## Monitoring



### AMTROBOX

	Enclosure T [°C]	IP67 ≥ -20 - ≤ +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 NG pneumatic actuators and HQ 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 ≥ -10 - ≤ +50	<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 - ≤ +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-compliant 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 F

	Enclosure T [°C]	IP67 ≥ -20 - ≤ +80	<b>Description:</b> Amtrobox F is a limit switch box specially designed for levers and all actuators with ISO 5211 interface for signalling open or closed position via proximity sensors. It can be used with S or C levers and ACTAIR NG/ DYNACTAIR NG pneumatic actuators. Thanks to its key feature, a particularly low height (< 5 mm), it can be mounted between any valve and actuator with ISO 5211 interface. <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 - ≤ +80	<b>Description:</b> Limit switch box specially designed for manual actuation. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX M mounts on the S series of quarter-turn levers (R1020) and manual gearbox types MA 12 and MA 25 (R1021). <b>Applications:</b> All applications in water engineering, building services and energy engineering.	
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## AMTROBOX R



Enclosure  
T [°C]

IP68  
≥ -45 - ≤ +80

**Description:**

Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R (R1187) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators, HQ hydraulic actuators and any actuators with VDI/VDE interface.

**Applications:**

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



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## AMTROBOX R EEx ia



Enclosure  
T [°C]

IP68  
≥ -25 - ≤ +80

**Description:**

Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R EEx ia (R1188): intrinsically safe version for potentially explosive atmospheres (Zones 0 + 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 - ≤ +70

**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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## ON/OFF valve controllers

### AMTRONIC



Enclosure  
Control air pressure [bar]  
T [°C]

IP67  
3 - 8  
≥ -20 - ≤ +80

**Description:**

On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. AMTRONIC can be connected to Profibus DP and AS-i field buses. AMTRONIC has been specially developed to reduce control unit cabling. Connection via field bus enables both power supply and control information exchange with the process control system. AMTRONIC can be integrated in field bus environments with Profibus DP protocol and especially AS-i protocol.



**Applications:**

All applications in water engineering, energy engineering, and industry.





<http://shop.ksb.com/catalog/k0/en/product/ES000462>

AMTRONIC Ex ia


	Enclosure	IP67	<b>Description:</b> On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. The intrinsically safe AMTRONIC Ex ia can be operated in potentially explosive atmospheres. It complies with Directive 2014/34/EC and is marked in accordance with CE 0081 Ex II 1 G. Type of protection Ex ia IIC T6 Ga in accordance with EN 60079-0 and EN 60079-11. <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Control air pressure [bar]	3 - 8		
	T [°C]	≥ -10 - ≤ +50		
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000462">http://shop.ksb.com/catalog/k0/en/product/ES000462</a>				

Positioners

SMARTRONIC MA



	Enclosure	IP67	<b>Description:</b> SMARTRONIC MA (R1310) is an electro-pneumatic digital positioner powered via the 4-20 mA signal. Mounts on ACTAIR NG/ DYNACTAIR NG actuators with direct compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface. SMARTRONIC MA reduces investment, commissioning and operating costs as the unit consumes no air while idle. <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Control air pressure [bar]	2 - 7		
	T [°C]	≥ -20 - ≤ +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 is an electro-pneumatic digital positioner for connection to an AS-i field bus. Certified by AS International. Mounts on ACTAIR NG/DYNACTAIR NG actuators with direct compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface. <b>Applications:</b> All applications in water engineering, energy engineering, and industry.	
	Control air pressure [bar]	3 - 8		
	T [°C]	≥ -20 - ≤ +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

	<p>Enclosure Control air pressure [bar] T [°C]</p> <p>IP67 3 - 8 ≥ -20 - ≤ +80</p>	<p><b>Description:</b> SMARTRONIC PC (R1312) is an intelligent, compact and innovative positioner. The integrated control offered by this multi-functional control unit represents the latest in open-loop and closed-loop control technology for valves. The unit attaches directly to ACTAIR NG and DYNACTAIR NG actuators with no need for a bracket or external piping, providing a rugged, compact and integrated solution. SMARTRONIC PC offers four functions: programmable characteristic curves for valve opening and closing, intelligent positioning, process monitoring and control. SMARTRONIC PC is PC programmable and can be connected to a Profibus DP field bus.</p> <p><b>Applications:</b> All applications in water engineering, energy engineering, and industry.</p>	
<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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