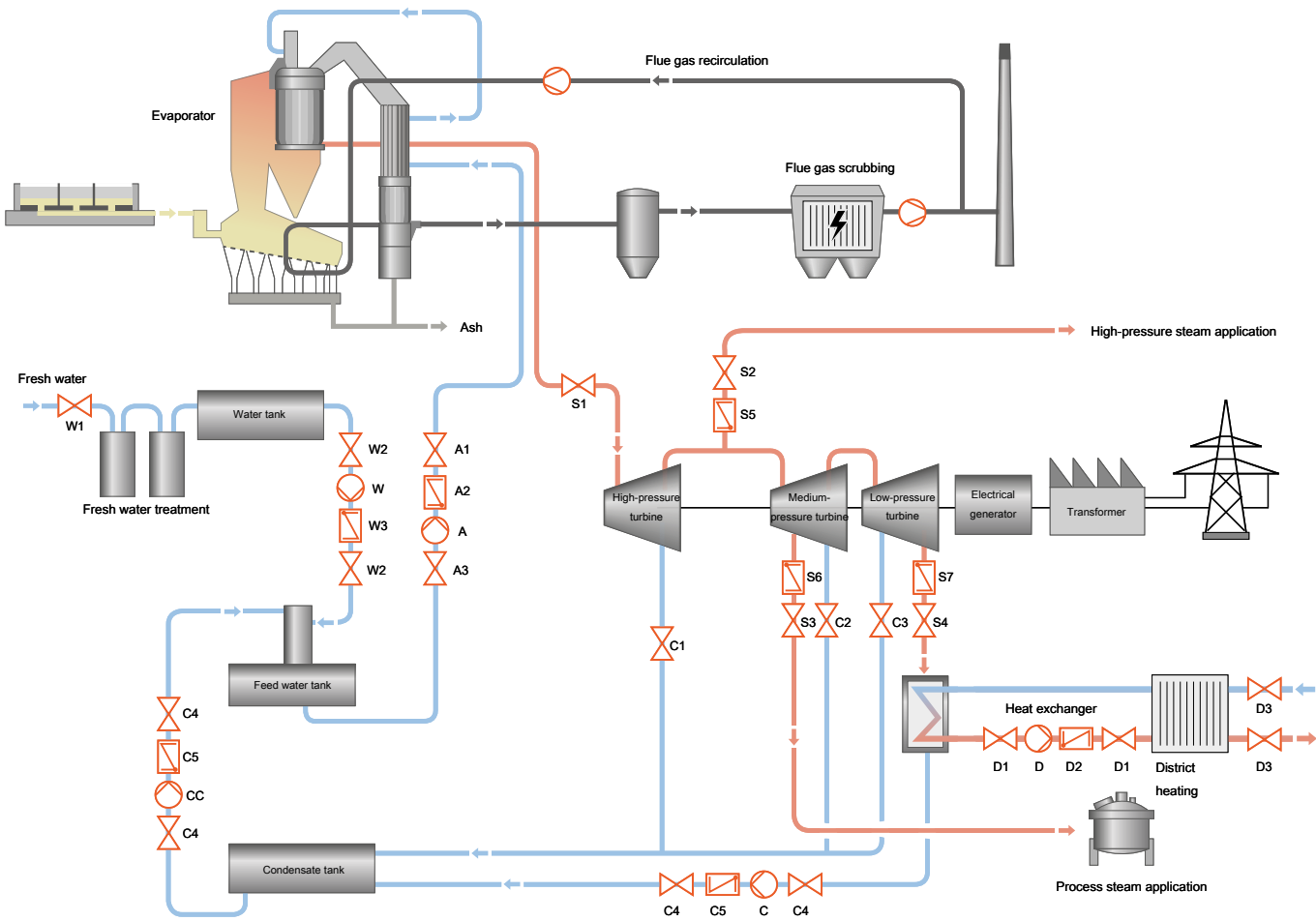


Product Portfolio

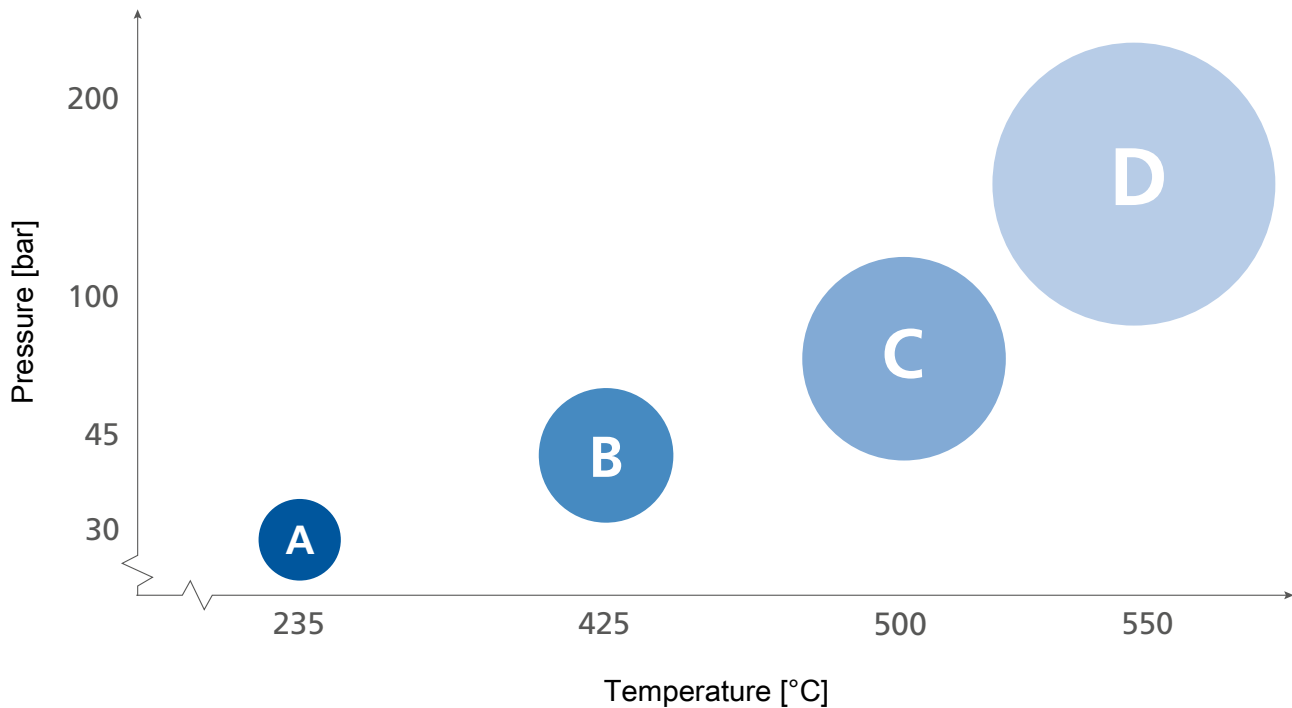
Decentralised Power Plants to EN Standards Combined Heat and Power



Schematic



Code	Design
A	Pump for feed water applications
A1	Gate valve PN 40 - 250
A2	Swing check valve PN 40 - 250
A3	Gate valve PN 40
S1	Gate valve PN 100 - 250
S2	Globe valve - Shut-off function PN 160
S3	Globe valve - Throttling function PN 160
S4	Globe valve PN 40
S5/6	Swing check valve PN 160
S7	Swing check valve PN 40
C/CC	Pump for condensate transport
C1/2	Globe valve PN 160
C3	Globe valve PN 40
C4	Gate valve PN 16
C5	Swing check valve PN 16
D	Pump for district heating circuits
D1	Gate valve PN 16 - 40
D2	Swing check valve PN 16 - 40
D3	Globe valve PN 16
W	Pump for auxiliary circuits
W1/2	Butterfly valve PN 16
W3	Swing check valve PN 16















Different pressure classes (steam) for specific applications:

- A** **Heat recovery systems (PN 40):**
 Mostly gas (biogas) combustion in combustion engines and use of exhaust gases for recovery boilers; heat used directly in nearby buildings/facilities (no steam turbine).
- B** **Small CHP (PN 100):**
 Less than 50 t/h of steam (combined cycle power plant, municipal solid waste, biomass)
- C** **Medium CHP (PN 160):**
 Approx. 100-200 t/h of steam (combined cycle power plant, municipal waste, biomass)
- D** **Large CHP (> PN 160):**
 More than 200 t/h of steam (combined cycle power plant, liquid and gaseous waste, biomass)






i Each individual subsystem has specific operating parameters that are usually lower than those of the steam system. Some of them are independent from the size of the CHP plant and result from the process, e.g. fresh water treatment.






i Detailed pump selection will be done in accordance with customer performance data of capacity and head (Q/H).

Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	A	B	C	D
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
A2		ZRS (⇒ Page 15)	≤ 600	50 - 800	≥ -10	≤ +650	-	-	-	X
A2		AKR/AKRS (⇒ Page 15)	63 - 160	80 - 300	≥ -10	≤ +550	-	-	X	X (bio)
A2		STAAL 100 AKK/AKKS (⇒ Page 15)	63 - 100	80 - 400	≥ -10	≤ +530	-	X	-	-
A2		STAAL 40 AKK/AKKS (⇒ Page 15)	10 - 40	80 - 400	≥ -10	≤ +450	X	-	-	-
A3	Gate valve									
A3		STAAL 40 AKD/AKDS (⇒ Page 13)	10 - 40	50 - 900	≥ -10	≤ +530	X	X	X	X



Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
S1	Gate valve									
S1		ZTS (⇒ Page 14)	≤ 600	50 - 800	≥ -10	≤ +650	-	-	-	✗
S1		AKG-A/AKGS-A (⇒ Page 13)	63 - 160	65 - 300	≥ -10	≤ +550	-	-	✗	-
S1		STAAL 100 AKD/AKDS (⇒ Page 13)	63 - 100	50 - 600	≥ -10	≤ +530	-	✗	-	-
S1		STAAL 40 AKD/AKDS (⇒ Page 13)	10 - 40	50 - 900	≥ -10	≤ +530	✗	-	-	-
S2	Globe valve – Shut-off function									
S2		NORI 160 ZXLF/ZXSF (⇒ Page 12)	63 - 160	10 - 200	≥ -10	≤ +550	-	-	✗	✗
S3	Globe valve - Throttling function									
S3		NORI 160 ZXLF/ZXSF (⇒ Page 12)	63 - 160	10 - 200	≥ -10	≤ +550	-	✗	✗	✗
S4	Globe valve									
S4		NORI 40 ZXLB/ZXSB Vacuum-resistant (⇒ Page 12)	25/40	10 - 200	≥ -10	≤ +450	-	✗	✗	✗
S5/6	Lift check valve									
S5/6		NORI 160 RXL/RXS (⇒ Page 14)	63 - 160	10 - 200	≥ -10	≤ +550	-	✗	✗	✗
S7	Lift check valve									
S7		NORI 40 RXL/RXS Vacuum-resistant (⇒ Page 14)	25/40	10 - 300	≥ -10	≤ +450	-	✗	✗	✗






Code	Type series		DN	Q [m³/h]	H [m]	Temperature Max. [°C]	Capacity			
							A	B	C	D
	Heat recovery boiler	Small			Medium	Large				
C	Pump for condensate extraction									
C		Movitec (⇒ Page 19)	25 - 125	≤ 160	≤ 401	≤ +140	X	X	-	-
C		Etanorm (⇒ Page 17)	25 - 150	≤ 1930	≤ 160	≤ +140	-	-	X	-
C		MegaCPK (⇒ Page 18)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	X	-
C		WKTb (⇒ Page 20)	150 - 300	≤ 1500	≤ 370	≤ +140	-	-	-	X
C		Multitec (⇒ Page 19)	32 - 250	≤ 1500	≤ 1000	≤ +200	-	-	-	X
CC	Pump for condensate transport									
CC		Movitec (⇒ Page 19)	25 - 125	≤ 160	≤ 401	≤ +140	-	X	-	-
CC		Etanorm (⇒ Page 17)	25 - 150	≤ 1930	≤ 160	≤ +140	-	-	X	-
CC		MegaCPK (⇒ Page 18)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	X	-
CC		WKTb (⇒ Page 20)	150 - 300	≤ 1500	≤ 370	≤ +140	-	-	-	X
CC		Multitec (⇒ Page 19)	32 - 250	≤ 1500	≤ 1000	≤ +200	-	-	-	X




Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	<div>A</div>	<div>B</div>	<div>C</div>	<div>D</div>
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
C1/2	Globe valve									
C1/2		NORI 500 ZXSV Multistage (⇒ Page 13)	250 - 500	10 - 65	≥ -10	≤ +650	-	X	X	X
C3	Globe valve									
C3		NORI 40 ZXL/ZXS Vacuum-resistant (⇒ Page 12)	25/40	10 - 400	≥ -10	≤ +450	-	X	X	X
C4	Gate valve									
C4		STAAL 40 AKD/AKDS (⇒ Page 13)	10 - 40	50 - 900	≥ -10	≤ +530	X	X	X	X
C4		ECOLINE GT 40 (⇒ Page 13)	10 - 40	50 - 600	≥ -10	≤ +400	X	X	X	X
C5	Swing check valve									
C5		SERIE 2000 (⇒ Page 15)	16/25	50 - 600	≥ -196	≤ +538	X	X	X	X

Code	Type series		DN	Q [m³/h]	H	Temperature Max.	Capacity			
					[m]	[°C]	A	B	C	D
							Heat recovery boiler	Small	Medium	Large
D	Pump for district heating circuits									
D		Omega (⇒ Page 19)	80 - 400	≤ 4400	≤ 210	≤ +140	-	-	X	X
D		RDLO (⇒ Page 19)	350 - 700	≤ 10000	≤ 290	≤ +140	-	-	X	X
D		HPK (⇒ Page 18)	150 - 400	≤ 4150	≤ 185	≤ +400	-	-	X	X
D		MegaCPK (⇒ Page 18)	25 - 250	≤ 3300	≤ 162	≤ +400	X	X	X	X
D		Etanorm SYT (⇒ Page 18)	25 - 300	≤ 1900	≤ 102	≤ +350	X	X	X	-

Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	A	B	C	D
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
D1	Gate valve									
D1		STAAL 40 AKD/AKDS (⇒ Page 13)	10 - 40	50 - 900	≥ -10	≤ +530	X	X	X	X
D1		ECOLINE GT 40 (⇒ Page 13)	10 - 40	50 - 600	≥ -10	≤ +400	X	X	X	X
D2	Swing check valve									
D2		SERIE 2000 (⇒ Page 15)	16/25	50 - 600	≥ -196	≤ +538	X	X	X	X


Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	A	B	C	D
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
D2		STAAL 40 AKK/AKKS (⇒ Page 15)	10 - 40	80 - 400	≥ -10	≤ +450	✗	✗	✗	✗
D3	Globe valve									
D3		BOA-H (⇒ Page 12)	16/25	15 - 350	≥ -10	≤ +350	✗	✗	✗	✗

Code	Type series		DN	Q [m³/h]	H	Temperature Max.	Capacity			
					[m]	[°C]	A	B	C	D
							Heat recovery boiler	Small	Medium	Large
W	Pump for make-up water system									
W		Movitec (⇒ Page 19)	25 - 125	≤ 160	≤ 401	≤ +140	-	-	X	X
W		MegaCPK (⇒ Page 18)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	X	X
W		Etanorm (⇒ Page 17)	25 - 150	≤ 1930	≤ 160	≤ +140	X	X	X	X
W		Etachrom B (⇒ Page 17)	25 - 80	≤ 260	≤ 105	≤ +110	X	X	X	X
W		Etachrom L (⇒ Page 17)	25 - 80	≤ 260	≤ 105	≤ +110	X	X	X	X


Code	Type series		PN	DN	Temperature		Capacity			
					Min.	Max.	A	B	C	D
					[°C]	[°C]	Heat recovery boiler	Small	Medium	Large
W1/2	Butterfly valve									
W1/2		BOAX-S/SF (⇒ Page 16)	6/10/16	20 - 600	≥ -10	≤ +130	X	X	X	X
W1/2		ISORIA 10/16 (⇒ Page 16)	10/16	40 - 1000	≥ -10	≤ +200	X	X	X	X
W3	Swing check valve									
W3		SERIE 2000 (⇒ Page 15)	16/25	50 - 600	≥ -196	≤ +538	X	X	X	X

Bellows-type globe valves to DIN/EN

BOA-H


	PN	16/25	Description Bellows-type globe valve to DIN/EN with flanged ends, with on/off disc or throttling plug, standard position indicator with colour coding for identification of valve design, replaceable valve disc; bellows protected when valve is in fully open position; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel. Applications Hot-water heating systems, high-temperature hot water systems, cooling circuits, heat transfer systems, general steam applications in building services and industry. Other fluids on request.
	DN	15 - 350	
	T [°C]	≥ -10 - ≤ +350	
m			https://www.ksb.com/en-gb/lc/B08A

NORI 40 ZXLB/ZXSB


	PN	25/40	Description Bellows-type globe valve to DIN/EN with flanged ends (ZXLB), butt weld ends or socket weld ends (ZXSB), replaceable tapered on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel. Applications Industrial plants, power stations, process engineering and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.
	DN	10 - 200	
	T [°C]	≥ -10 - ≤ +450	
m, e, p			https://www.ksb.com/en-gb/lc/N03A

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS

	PN	25/40	Description Globe valve to DIN/EN with flanged ends (ZXL), butt weld ends or socket weld ends (ZXS), with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	10 - 400	
	T [°C]	≥ -10 - ≤ +450	
m			https://www.ksb.com/en-gb/lc/N02A

NORI 160 ZXLF/ZXSF

	PN	63 - 160	Description Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	10 - 200	
	T [°C]	≥ -10 - ≤ +550	
m, e, p			https://www.ksb.com/en-gb/lc/N13A

NORI 500 ZXSV



PN	250 - 500	Description
DN	10 - 65	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.
T [°C]	≥ -10 - ≤ +650	Applications
		Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

● m, e, p

<https://www.ksb.com/en-gb/lc/N21A>

Gate valves to DIN/EN

ECOLINE GT 40



PN	10 - 40	Description
DN	50 - 600	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.
T [°C]	≥ -10 - ≤ +400	Applications
		Industrial plants, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

● m, e

<https://www.ksb.com/en-gb/lc/EF2A>

STAAL 40 AKD/AKDS



PN	10 - 40	Description
DN	50 - 900	Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel.
T [°C]	≥ -10 - ≤ +530	Applications
		Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

● m, e

<https://www.ksb.com/en-gb/lc/S16A>

STAAL 100 AKD/AKDS



PN	63 - 100	Description
DN	50 - 600	Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
T [°C]	≥ -10 - ≤ +530	Applications
		Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

● m, e, p

<https://www.ksb.com/en-gb/lc/S32A>

AKG-A/AKGS-A




PN	63 - 160	Description
DN	65 - 300	Gate valve to DIN/EN with flanged ends (AKG-A) or butt weld ends (AKGS-A), pressure seal design, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
T [°C]	≥ -10 - ≤ +550	Applications
		Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

● m, e, p


<https://www.ksb.com/en-gb/lc/A01A>

ZTS


	PN	≤ 600	Description Gate valve to DIN/EN or ANSI/ASME with butt weld ends, pressure seal design, billet-forged body, seat/disc interface made of wear and corrosion resistant Stellite, split wedge with flexibly mounted discs for precise alignment with the body seats. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	Class	4500	
	DN	50 - 800	
	NPS [inch]	2 - 32	
	T [°C]	≥ -10 - ≤ +650	
m, e, p			https://www.ksb.com/en-gb/lc/Z05A

Lift check valves to DIN/EN

NORI 40 RXL/RXS


	PN	25/40	Description Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	10 - 300	
	T [°C]	≥ -10 - ≤ +450	
			https://www.ksb.com/en-gb/lc/N00A

NORI 160 RXL/RXS


	PN	63 - 160	Description Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	10 - 200	
	T [°C]	≥ -10 - ≤ +550	
			https://www.ksb.com/en-gb/lc/N10A

Swing check valves to DIN/EN


STAAL 40 AKK/AKKS

	PN	10 - 40	Description Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	80 - 400	
	T [°C]	≥ -10 - ≤ +450	
https://www.ksb.com/en-gb/lc/S34A			


STAAL 100 AKK/AKKS

	PN	63 - 100	Description Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of forged or welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	80 - 400	
	T [°C]	≥ -10 - ≤ +530	
https://www.ksb.com/en-gb/lc/S36A			


AKR/AKRS

	PN	63 - 160	Description Swing check valve to DIN/EN with flanged ends (AKR) or butt weld ends (AKRS), pressure seal design, internally mounted hinge pin, body of forged and welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite. Applications Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
	DN	80 - 300	
	T [°C]	≥ -10 - ≤ +550	
https://www.ksb.com/en-gb/lc/A03A			

ZRS


	PN	≤ 600	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.
	DN	50 - 800	
	T [°C]	≥ -10 - ≤ +650	
https://www.ksb.com/en-gb/lc/Z01A			

SERIE 2000


	PN	16	Description Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel or stainless steel; metal/elastomer-seated or metal/metal-seated, maintenance-free, connections to EN, ASME or JIS. Applications Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas. Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons.
	Class	150/300	
	DN	50 - 600	
	T [°C]	≥ -196 - ≤ +538	
https://www.ksb.com/en-gb/lc/S51A			

Centred-disc butterfly valves

BOAX-S/SF

	PN	6/10/16	Description Centred-disc butterfly valve with ISO 5211 compliant square shaft end for butterfly valves from DN 350, with heat barrier and elastomer liner (EPDM XU or nitrile K), with lever, manual gearbox or electric actuator (BOAX-S and BOAX-SF); semi-lug body (T2) or full-lug body (T4) for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN. Applications Building services, heating, ventilation, air-conditioning systems, for drinking water.
	DN	20 - 600	
	T [°C]	≥ -10 - ≤ +130	
m, e, AMTROBOX, AMTRONIC U, SMARTRONIC U			https://www.ksb.com/en-gb/lc/B12A

ISORIA 10/16

	PN	10/16	Description Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Wafer-type body (T1), semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS. Applications Shut-off and control duties in all industrial and energy sectors.
	DN	40 - 1000	
	T [°C]	≥ -10 - ≤ +200	
m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U			https://www.ksb.com/en-gb/lc/I00A

Standardised / close-coupled pumps

Etanorm



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

Data for 50 Hz operation
Also available for 60 Hz

Description

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

Applications

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

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

Etachrom B



DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation
Also available for 60 Hz

Description

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

Applications

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

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

Etachrom L



DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation
Also available for 60 Hz

Description

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


Applications

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

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



Hot water pumps

HPK

	DN	150 - 400	Description Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant version available. Applications Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems
	Q [m³/h]	≤ 4150	
	H [m]	≤ 185	
	p [bar]	≤ 40	
	T [°C]	≥ 0 - ≤ +400	
Data for 50 Hz operation Also available for 60 Hz			
			https://www.ksb.com/en-gb/lc/H02A



Hot water / thermal oil pumps

Etanorm SYT / RSY

	DN	25 - 300	Description Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available. Applications Heat transfer systems, hot water recirculation
	Q [m³/h]	≤ 1900	
	H [m]	≤ 102	
	p [bar]	≤ 16	
	T [°C]	≥ -30 - ≤ +350	
	Data for 50 Hz operation Also available for 60 Hz		
 KSB Leakage Sensor			https://www.ksb.com/en-gb/lc/E44B https://www.ksb.com/en-gb/lc/E23A

Standardised chemical pumps

MegaCPK

	DN	25 - 250	Description Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 5199, dimensions to DIN EN ISO 2858, complemented by nominal diameters DN25 and ≥DN200, in large range of material and seal variants; also available as a variant with "wet" shaft and conical seal chamber. ATEX-compliant version available. Applications Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.
	Q [m³/h]	≤ 3300	
	H [m]	≤ 162	
	p [bar]	≤ 40	
	T [°C]	≥ -40 - ≤ +400	
	Data for 50 Hz operation Also available for 60 Hz		
			https://www.ksb.com/en-gb/lc/M48A

High-pressure pumps

Movitec



Rp	1 - 2
DN	25 - 125
Q [m³/h]	≤ 160
H [m]	≤ 401
p [bar]	≤ 40
T [°C]	≥ -20 - ≤ +140
n [rpm]	≤ 2900
Data for 50 Hz operation Also available for 60 Hz	

Description

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

Applications

Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.

● KSB SuPremE, PumpDrive, PumpMeter

<https://www.ksb.com/en-gb/lc/M12A>

Multitec



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

Description

Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled or close-coupled, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system. ATEX-compliant version available.

Applications

Water supply, drinking water supply, industry, pressure boosting, irrigation, power stations, heating systems, filtering systems, fire-fighting systems, reverse osmosis systems, snow-making systems and washing plants, and geothermal systems (re-injection of geothermal water into the aquifer).

● KSB SuPremE, PumpDrive, PumpMeter

<https://www.ksb.com/en-gb/lc/M07A>

Axially split pumps

Omega



DN	80 - 400
Q [m³/h]	≤ 4400
H [m]	≤ 210
p [bar]	≤ 25
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 2900
Data for 50 Hz operation Also available for 60 Hz	

Description

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

Applications

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

● PumpDrive, PumpMeter, Frequency inverter

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

RDLO



DN	350 - 700
Q [m³/h]	≤ 10000
H [m]	≤ 290
p [bar]	≤ 30
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 1450
Data for 50 Hz operation Also available for 60 Hz	

Description

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

Applications

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

● PumpMeter, Frequency inverter

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

Pumps for power station conventional islands

HGB / HGC / HGD



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

Also available for 60 Hz
Higher ratings possible upon request

Description

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

Applications

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

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

HGI



DN	80 - 150
Q [m³/h]	≤ 600
H [m]	≤ 2000
p [bar]	≤ 200
T [°C]	≤ +180
n [rpm]	≤ 3600

Also available for 60 Hz

Description

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

Applications

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

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

HGM / HGM-S



DN	25 - 125
Q [m³/h]	≤ 390
H [m]	≤ 1400 / ≤ 1000
p [bar]	≤ 140 / ≤ 100
T [°C]	≤ +160
n [rpm]	≤ 3600

Also available for 60 Hz
Higher ratings possible upon request

Description

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

Applications

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

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

WKTb



DN	150 - 300
Q [m³/h]	≤ 1500
H [m]	≤ 370
p [bar]	≤ 40
T [°C]	≤ +140
n [rpm]	1500

Data for 50 Hz operation
Also available for 60 Hz

Description










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

Applications

Pumping condensate in power stations and industrial plants.

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

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Product Portfolio Decentralised Power Plants to EN Standards

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