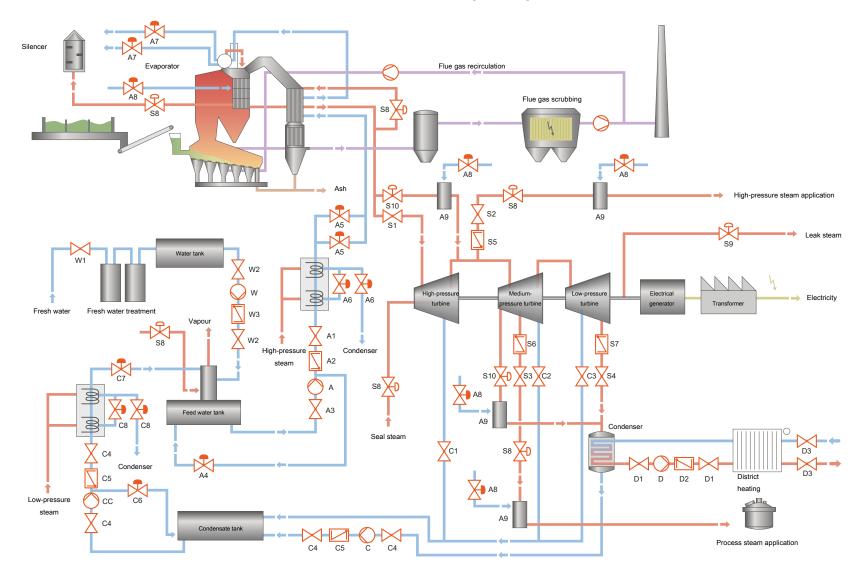


Product Portfolio

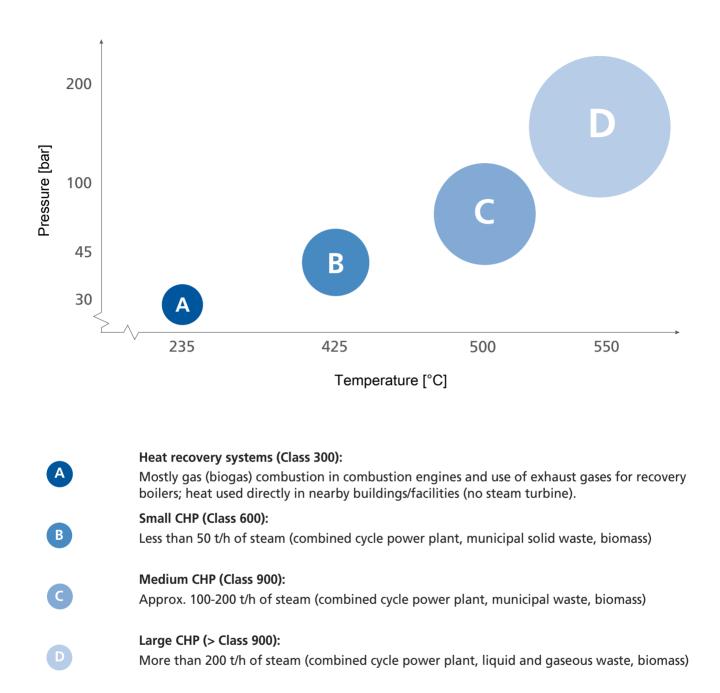
Decentralised Power Plants to ANSI/ ASME Standards Combined Heat and Power



General schematic of a decentralised power plant



Code	Design
A	Pump for feed water applications
A1	Gate valve Class 300 - 3600
A2	Swing check valve Class 300 - 3600
A3	Gate valve Class 150 - 300
A4	Control valve Class 300 - 4500
A5	Control valve Class 300 - 4500
A6	Control valve Class 150 - 2500
A7	Control valve Class 150 - 2500
A8	Control valve Class 150 - 4500
A9	Desuperheater Class 300 - 2500
S1	Gate valve Class 300 - 3600
S2	Globe valve – Shut-off function – Class 900
S3	Globe valve – Throttling function – Class 900
S4	Globe valve Class 150 - 300
S5/6	Swing check valve Class 900
\$7	Swing check valve Class 150 - 300
58	Control valve Class 150 - 4500
59	Control valve Class 150 - 2500
S10	Bypass Class 150 - 2500
С	Pump for condensate extraction
СС	Pump for condensate transport
C1/2	Globe valve Class 900 - 2500
C3	Globe valve Class 300
C4	Gate valve Class 150 - 300
C5	Swing check valve Class 150 - 300
C6	Control valve Class 150 - 300
C7	Control valve Class 150 - 300
C8	Control valve Class 150 - 300
D	Pump for district heating circuits
D1	Gate valve Class 150 - 300
D2	Swing check valve Class 150 - 300
D3	Globe valve Class 150 - 300
w	Pump for auxiliary circuits
W1/2	Butterfly valve Class 150
W3	Swing check valve Class 150



Different pressure classes (live steam) of valves for specific applications:

② 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.

⑦ Detailed pump selection will be done in accordance with customer performance data of Capacity and Head (Q/H).

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	Type series		DN	Q [m³/h]	н	Temperature Max.		Сар	acity	
					[m]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
Α	Pump for feed wa	ater applications								
A		HGC (⇔ Page 23)	40 - 400	≤ 2300	≤ 5300	≤ +210	-	-	X	X
A		HGI (⇔ Page 23)	80 - 150	≤ 600	≤ 2000	≤ +180	-	-	x	X (≤ 200)
A		HGM (⇔ Page 23)	25 - 125	≤ 390	≤ 1400	≤ +160	-	-	X	-
A	V	HGM-S (⇔ Page 23)	25 - 125	≤ 390	≤ 1000	≤ +160	-	X	X	-
A		Multitec (⇔ Page 22)	32 - 250	≤ 1500	≤ 1000	≤ +200	x	×	-	-
	Type series		Class	NPS	Tempe			Сар	acity	
	Type series		Class	NPS [inch]	Min.	Max.		Сар	acity	
	Type series		Class			Max. [°C]	٩	Сар	C	D
Code			Class		Min.	Max. [°C]	Heat recovery boiler	Cap B IIeuus	acity C mipaw	Large
A1	Type series			[inch]	Min. [°C]	Мах. [°С]		B	C	Large
		SICCA 150-600 GTC Low pressure (⇔ Page 15)	Class 150 - 600		Min.	Max. [°C]	× recovery boiler	B	C	Large
A1		Low pressure		[inch]	Min. [°C]	Мах. [°С]		B	C	Large
A1 A1		Low pressure (⇔ Page 15) SICCA 900-3600 GTC High pressure (⇔ Page 15)	150 - 600	[inch] 2 - 48	Min. [°C] ≥ -29	Max. [°C] ≤ +593	X	Rmall X	Medium	-
A1 A1 A1	Gate valve	Low pressure (⇔ Page 15) SICCA 900-3600 GTC High pressure (⇔ Page 15)	150 - 600	[inch] 2 - 48	Min. [°C] ≥ -29	Max. [°C] ≤ +593	X	Rmall X	Medium	-
A1 A1 A1 A2	Gate valve	Low pressure (⇔ Page 15) SICCA 900-3600 GTC High pressure (⇔ Page 15) e SICCA 150-600 SCC Low pressure	150 - 600 900 - 3600	[inch] 2 - 48 2 - 32	Min. [°C] ≥ -29 ≥ -29	Max. [°C] ≤ +593 ≤ +650	-	Reality of the second s	Medium	-

6

	Type series		Class	NPS	Temperat	ure		Сар	acity	
				[inch]	Min.	Max.				
					[°C]	[°C]		B	C	D
Code							Heat recovery boiler	Small	Medium	Large
A3	A	SICCA 150-600 GTC Low pressure (⇔ Page 15)	150 - 600	2 - 48	≥ -29	≤ +593	X	X	X	X
A4	Control valve – F	unction: minimum flow control	, feed water recircula	tion						
A4		MIL 78000 (⇔ Page 18)	150 - 2500	½ - 6	≥ -29	≤ +260	-	X	X	X
A4		MIL 91000 (⇔ Page 18)	150 - 3400	3 <u>4</u> - 12	≥ -29	≤ +566	-	-	-	X
A4		MIL 90000 (⇔ Page 18)	150 - 2500	1,5 - 12	≥ -29	≤ +260	-	X	X	X
A5	Control valve – F	unction: feed water control val	ve							
A5		MIL 41000 Full load (⇔ Page 17)	150 - 3000	½ - 32	≥ -196	≤+566	-	x	X	X
A5		MIL 78000 Low load (⇔ Page 18)	150 - 2500	½ - 6	≥ -29	≤ +260	-	-	X	X
A5		MIL 91000 Low load (⇔ Page 18)	150 - 3400	³⁄4 - 12	≥ -29	≤ +566	-	-	X	X
A6	Control valve – F	unction: feed water heater stea	am supply							
A6		MIL 21000 (⇔ Page 17)	150 - 2500	½ - 12	≥ -196	≤+540	-	x	x	X
A7	Control valve – F	unction: blowdown and pH val	ue maintenance, inte	rmittent or con	tinuous					
Α7		MIL 70000 (⇔ Page 18)	150 - 2500	½ - 10	≥ -100	≤+566	-	X	X	X
A7		MIL 76000 (⇔ Page 18)	150 - 2500	1 - 2	≥ -27	≤+566	-	-	-	×
A8	Control valve – F	unction: temperature control								
A8		MIL 21000 (⇔ Page 17)	150 - 2500	1⁄2 - 12	≥ -196	≤ +540	-	X	-	-

	Type series		Class	NPS	Tempe	erature		Сар	acity	
				[inch]	Min.	Max.				
					[°C]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
A8		MIL 41000 (⇔ Page 17)	150 - 3000	½ - 32	≥-196	≤ + 566	-	-	X	X
A8		MIL 78000 (⇔ Page 18)	150 - 2500	½ - 6	≥ -29	≤ +260	-	-	X	X
A9	Desuperheater –	Function: steam cooling								
A9	đ	MIL 63000 (⇔ Page 17)	300 - 2500	2 - 32	≥ room temperature		-	x	x	x

	Type series		Class	NPS [inch]	Temperat Min.	ure Max.		Сар	acity	
				[inen]	[°C]	[°C]	A	B	С	D
Code							Heat recovery boiler	Small	Medium	Large
S 1	Gate valve									
S1		SICCA 150-600 GTC Low pressure (⇔ Page 15)	150 - 600	2 - 48	≥ -29	≤ +593	X	X	-	-
S1		SICCA 900-3600 GTC High pressure (⇔ Page 15)	900 - 3600	2 - 32	≥ -29	≤ +650	-	-	X	X
S2	Globe valve – Shu	ut-off function								
52		SICCA 900-2500 GLC High pressure (⇔ Page 16)	900 - 2500	2 - 10	≥ -29	≤ +650	-	-	X	X
S3	Globe valve									
\$3		SICCA 150-600 GLC Low pressure (⇔ Page 15)	150 - 600	2 - 28	≥ -29	≤ +593	-	X	X	X
S4	Globe valve – Thr	ottling function								
S4		SICCA 150-600 GLC Low pressure (⇔ Page 15)	150 - 600	2 - 28	≥ -29	≤ +593	-	X	X	X
S5/6	Swing check valv	e								
S5/6		SICCA 900-3600 SCC High pressure (⇔ Page 16)	900 - 3600	2 - 28	≥ -29	≤ +650	-	-	X	X
S 7	Swing check valv	e								
S7		SICCA 150-600 SCC Low pressure (⇔ Page 15)	150 - 600	2 - 44	≥ -29	≤ +593	-	X	×	X
S 8	Control valve – Fi	unction: start control valve, soo	ot blower pressure co	ntrol, seal stea	n, deaerator pe	gging, tappi	ng			
58		MIL 21000 (⇔ Page 17)	150 - 2500	½ - 12	≥ -196	≤ +540	-	X	-	-
58		MIL 41000 (⇔ Page 17)	150 - 3000	½ - 32	≥ -196	≤+566	-	X	X	X
S9	Control valve – Fi	unction: leak steam								
S9	T	MIL 21000 (⇔ Page 17)	150 - 2500	½ - 12	≥ -196	≤ +540	-	X	X	X

	Type series	Гуре series		NPS	Tempe	erature		Сар	acity	
				[inch]	Min.	Max.				
					[°C]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
S10	Bypass									
S10		MIL 74000 Valve on request, please contact us.	150 - 2500	3 - 24	≥-29	≤ +566	-	x	x	x

	Type series		DN	Q [m³/h]		Temperature Max.		Сар	acity	
					[m]	[°C]	A	B	C	D
c Code							Heat recovery boiler	Small	Medium	Large
с	Pump for conden	sate extraction								
С		Movitec (⇔ Page 22)	25 - 125	≤ 160	≤ 401	≤ +140	X	x	-	-
С		Etanorm (⇔ Page 20)	25 - 150	≤ 1930	≤ 160	≤ +140	-	-	X	-
С	ANT	MegaCPK (⇔ Page 21)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	X	-
С		WKTB (⇔ Page 24)	150 - 300	≤ 1500	≤ 370	≤ +140	-	-	-	X
С	a de la	Multitec (⇔ Page 22)	32 - 250	≤ 1500	≤ 1000	≤ +200	-	-	-	X
сс	Pump for conden	sate transport								
СС		Movitec (⇔ Page 22)	25 - 125	≤ 160	≤ 401	≤ +140	-	x	-	-
СС		Etanorm (⇔ Page 20)	25 - 150	≤ 1930	≤ 160	≤ +140	-	-	X	-
сс		MegaCPK (⇔ Page 21)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	X	-
СС		WKTB (⇔ Page 24)	150 - 300	≤ 1500	≤ 370	≤ +140	-	-	-	×
сс		Multitec (⇔ Page 22)	32 - 250	≤ 1500	≤ 1000	≤ +200	-	-	-	x

	Type series		Class	Class NPS Temperature [inch] Min. Max.						
					[°C]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
C1	Globe valve									
C1	I	SICCA 150-4500 GLF High pressure (⇔ Page 16)	150 - 4500	1⁄4 - 21⁄2	≥ -29	≤ +650	-	X	x	×
C1	Control valve									
C1		MIL 76000 (⇔ Page 18)	150 - 2500	1 - 2	≥ -27	≤ +566	-	X	X	X
C2	Globe valve									
C2	I	SICCA 150-4500 GLF High pressure (⇔ Page 16)	150 - 4500	1/4 - 21/2	≥ -29	≤ +650	-	x	x	X
C2	Control valve									
C2	Ť.	MIL 70000 (⇔ Page 18)	150 - 2500	½ - 10	≥ -100	≤ +566	-	X	x	×
C3	Globe valve									
C3	I	SICCA 150-4500 GLF High pressure (⇔ Page 16)	150 - 4500	1⁄4 - 21⁄2	≥ -29	≤ +650	-	X	x	×
C4	Gate valve									
C4		SICCA 150-600 GTC Low pressure (⇔ Page 15)	150 - 600	2 - 48	≥ -29	≤ +593	X	x	x	X
C5	Swing check valv	e								
C5		SICCA 150-600 SCC Low pressure (⇔ Page 16)	150 - 600	2 - 44	≥ -29	≤ +593	X	x	x	X
C6	Control valve – F	unction: condensate recirculati	on							
C6		MIL 41000 (⇔ Page 17)	150 - 3000	½ - 32	≥-196	≤ +566	-	-	X	×
C6		MIL 78000 (⇔ Page 18)	150 - 2500	1⁄2 - 6	≥ -29	≤ +260	-	-	-	X
C6		MIL 90000 (⇔ Page 18)	150 - 2500	1,5 - 12	≥ -29	≤ +260	-	X	x	×
C7	Control valve – F	unction: deaerator level contro	I							

	Type series		Class	NPS	Temperat	ture		Сар	acity	
				[inch]	Min.	Max.				
					[°C]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
C7		MIL 21000 (⇔ Page 17)	150 - 2500	½ - 12	≥ -196	≤ +540	-	x	-	-
C7		MIL 41000 (⇔ Page 17)	150 - 3000	¥2 - 32	≥-196	≤+566	-	-	X	×
C8	Control valve – F	unction: feed water heater stea	am supply							
C8		MIL 21000 (⇔ Page 17)	150 - 2500	½ - 12	≥ -196	≤ +540	-	X	X	×
C8		MIL 41000 (⇔ Page 17)	150 - 3000	½ - 32	≥ -196	≤+566	-	-	x	X

	Type series		Type series DN Q [m³/h]			Temperature Max.		Cap	acity	
					[m]	[°C]	A	В	С	D
Code							Heat recovery boiler	Small	Medium	Large
D	Pump for district									
D		Omega (⇔ Page 22)	80 - 400	≤ 4400	≤210	≤ +140	-	-	X	X
D		RDLO (⇔ Page 23)	350 - 700	≤ 10000	≤ 290	≤ +140	-	-	x	X
D		HPK (⇔ Page 21)	150 - 400	≤ 4150	≤ 185	≤ +400	-	-	X	X
D	A	MegaCPK (⇔ Page 21)	25 - 250	≤ 3300	≤ 162	≤ +400	X	X	X	×
D		Etanorm SYT (⇔ Page 21)	25 - 300	≤ 1900	≤ 102	≤ +350	x	x	x	-
	Type series		Class	NPS	Tempe			Сар	acity	
	Type series		Class	NPS [inch]	Min.	Max.		Cap	acity	
e	Type series		Class				at overy	B	C	D
Code			Class		Min.	Max.	Heat recovery boiler		acity C Minipa W	Large
вроу D1 D1	Type series Gate valve	SICCA 150-600 GTC Low pressure (⇔ Page 15)	Class 150 - 600		Min.	Max.	× recovery boiler	B	C	Large X
D1		Low pressure (⇔ Page 15)		[inch]	Min. [°C]	Max. [°C]	Heat recover boiler	B	Medium	
D1 D1	Gate valve	Low pressure (⇔ Page 15)		[inch]	Min. [°C]	Max. [°C]	Heat recover boiler	B	Medium	
D1 D1 D2	Gate valve	Low pressure (⇔ Page 15) //e SICCA 150-600 SCC Low pressure	150 - 600	[inch] 2 - 48	Min. [°C] ≥ -29	Max. [°C] ≤+593	Heat recover boiler	B z	X	X
D1 D1 D2 D2	Gate valve	Low pressure (⇔ Page 15) // SICCA 150-600 SCC Low pressure (⇔ Page 16) SERIE 2000	150 - 600	[inch] 2 - 48 2 - 44	Min. [°C] ≥ -29 ≥ -29	Max. [°C] ≤ +593	x x boiler	R Small	x X	x x

	Type series		DN	Q [m³/h]	н	Temperature Max.		Сар	acity	
					[m]	[°C]	A	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
W	Pump for make-u									
W		Movitec (⇔ Page 22)	25 - 125	≤ 160	<u>≤</u> 401	≤ +140	-	-	X	X
W		MegaCPK (⇔ Page 21)	25 - 250	≤ 3300	≤ 162	≤ +400	-	-	×	X
W		Etanorm (⇔ Page 20)	25 - 150	≤ 1930	≤ 160	≤ +140	X	×	x	X
W		Etachrom B (⇔ Page 20)	25 - 80	≤ 260	≤ 105	≤ +110	X	X	X	X
W		Etachrom L (⇔ Page 20)	25 - 80	<u>≤</u> 260	≤ 105	≤+110	x	x	x	X
	Type series		Class	NPS	Tempe	rature		Сар	acity	
				[inch]	Min.	Max.				
					[°C]	[°C]	▲	B	C	D
Code							Heat recovery boiler	Small	Medium	Large
ර W1/2	Butterfly valve						ΗĽΑĞ	SI	Σ	L
W1/2		BOAX-S/SF (⇔ Page 19)	150 - 300	20 - 600	≥ -10	≤ +130	X	×	x	X
W1/2		ISORIA 10/16 (⇔ Page 19)	150 - 300	40 - 1000	≥-10	≤ +200	X	X	x	X
W3	Swing check valv	e								
W3		SICCA 150 SCC Low pressure (⇔ Page 16)	150	2 - 44	≥ -29	≤ +593	x	-	-	-

Gate valves to ANSI/ASME

SICCA 150-600 GTC

	Class NPS [inch] T [°C]	Description Gate valve to ANSI/ASME with flanged or butt weld ends, with bolted bonnet, outside screw and yoke, flexible wedge, rising stem, non-rising handwheel, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing. Available in carbon steel, low-alloy steel and stainless steel. Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non- aggressive fluids. Other fluids on request.
🛑 m, e		https://www.ksb.com/de-de/lc/S77A

SICCA 900-3600 GTC

BAL.	Class NPS [inch] T [°C]	2 - 32 > 0 - < +650	DescriptionGate valve to ANSI/ASME with butt weld ends, pressure seal design, split wedge, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non- aggressive fluids. Other fluids on request.
🛑 m, e			https://www.ksb.com/de-de/lc/S83A

SICCA 150-2500 GTF

	Class NPS [inch] T [°C]	1/4 - 21/2	Description Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500), solid wedge, outside screw and yoke, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel. Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
— m, e			https://www.ksb.com/de-de/lc/S79A

Globe valves to ANSI/ASME with gland packing

SICCA 150-600 GLC

	Class NPS [inch] T [°C]	2 - 10	 Description Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rising stem, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel. Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
— m, e			https://www.ksb.com/de-de/lc/S76A

Valves

SICCA 900-2500 GLC

	Class NPS [inch] T [°C]	2 - 10	Description Globe valve to ANSI/ASME with butt weld ends, Y-pattern, pressure seal design, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel. Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
🛑 m, e			https://www.ksb.com/de-de/lc/582A

SICCA 150-4500 GLF

	Class NPS [inch] T [°C]	1⁄4 - 21⁄2 > 0 - < +816	Description Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500/4500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel. Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
— m, e			https://www.ksb.com/de-de/lc/S80A

Swing check valves to ANSI/ASME

SICCA 150-600 SCC

Class NPS [inch] T [°C]	DescriptionSwing check valve to ANSI/ASME with flanged or butt weld ends, with bolted cover, internally bracket- mounted hinge pin (up to NPS 12) and body-mounted hinge pin (NPS > 12). Bigger nominal sizes with anti-slam/dash pot arrangement (optional), graphite gaskets. Stellite hard-faced seat/disc interface made of 13 % chrome steel. Available in carbon steel, low-alloy steel and stainless steel.Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non- aggressive fluids. Other fluids on request.
	https://www.ksh.com/de-de/lc/S78A

SICCA 900-3600 SCC

NPS [inch] 2 - 28	Description 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. Applications Power stations, general industry and process engineering. For water, steam, oil, gas and non- aggressive fluids. Other fluids on request.
	https://www.ksb.com/de-de/lc/S84A

Lift check valves to ANSI/ASME

SICCA 150-4500 PCF

Class NPS [inch] T [°C]	1/4 - 21/2	Description Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW) or integral flange (Class 150 - 600), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 150 - 800) or welded cover (Class 1500/2500/4500), spring-loaded check disc, available in carbon steel, low-alloy steel and stainless steel. Applications Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.
		https://www.ksb.com/de-de/lc/S81A

Control valves to ANSI/ASME

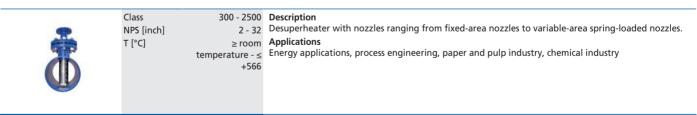
MIL 21000

	Class NPS [inch] T [°C]	Description Top-guided single-ported heavy post-guided control valve for a wide temperature range. Applications Industry, power stations, process engineering.
<mark>e</mark> , h, p		https://www.ksb.com/de-de/lc/M57A

MIL 41000

	Class NPS [inch] T [°C]	1⁄2 - 32	Description Cage-guided single-ported heavy-duty control valves, high pressure drop capability; noise reduction and anti-cavitation solution available by replacing the standard cage. Applications Industry, power stations, process engineering, chemical and petrochemical engineering.
🛑 e, h, p			https://www.ksb.com/de-de/lc/M37A

MIL 63000



MIL 70000

	Class NPS [inch] T [°C]	Description Top-guided single-ported heavy-duty control valves in angle pattern. Applications Industry, power stations, process engineering, chemical and petrochemical engineering
<mark>e</mark> , h, p		https://www.ksb.com/de-de/lc/M40A

MIL 76000

	Class NPS [inch] T [°C]	1 - 2 > -27 - < +566	Description The letdown control valves in angle pattern are designed for all applications where flashing (flash evaporation) or two-phase (liquid and gaseous) flows may occur; no body/trim erosion, vibration or noise. Due to its angle pattern, the globe valve is self-draining. Applications Industry, power stations, process engineering, chemical and petrochemical engineering.
📕 e, h, p			https://www.ksb.com/de-de/lc/M54A

MIL 78000

	Class NPS [inch] T [°C]	1⁄2 - 6	Description Multistage control valve in anti-cavitation design with wear-resistant multistage trim and detachable flow bush / spacer. Applications Industry, power stations, process engineering, chemical and petrochemical engineering.
e, h, p			https://www.ksb.com/de-de/lc/M64A

MIL 91000

	Class NPS [inch] T [°C]	³ ⁄ ₄ - 12	Description Multistage multi-path control valve with Matrix trim; pressures of up to 420 bar can be reduced by up to 50 pressure reduction stages, preventing cavitation and greatly reducing fluid velocity. Applications Industry, power stations, process engineering, chemical and petrochemical engineering.
🛑 e, h, p			https://www.ksb.com/de-de/lc/M76A

Automatic recirculation valves

MIL 90000

	Class NPS [inch] T [°C]	150 - 2500 1,5 - 12 ≥ -29 - ≤ +260	 Description The automatic recirculation valve (ARV) is a multifunctional valve whose primary function is to ensure a pre-determined minimum flow through the centrifugal pump at all times. Applications Power stations, refineries, petrochemical industry.
<mark>e</mark> , h, p			https://www.ksb.com/de-de/lc/M74A

Swing check valves to DIN/EN

SERIE 2000

PN 16 Class 150/300 DN 50 - 600 T [°C] ≥ -196 - ≤ +538	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 US
	https://www.ksh.com/de-de/lc/S51A

Centred-disc butterfly valves

BOAX-S/SF

	PN DN T [°C]		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 (BOAXMAT-S and BOAXMAT-SF); semi-lug body (T2) or full-lug body (T4) for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN. Applications Building services, heating, ventilation, air-conditioning systems, for drinking water.
m, e, p + AMTROBOX/AMTRONIC U/SMARTRONIC U		RONIC U	https://www.ksb.com/de-de/lc/B12A

ISORIA 10/16

	PA Di T		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.
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m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

https://www.ksb.com/de-de/lc/I00A

Standardised / close-coupled pumps

Etanorm

DN Q [m³/h] H [m] p [bar] T [°C]	< 1930	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/de-de/lc/E04B

Etachrom B

		DN Q [m³/h] H [m] p [bar] T [°C]		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
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https://www.ksb.com/de-de/lc/E02A

Etachrom L

STATE	DN Q [m³/h] H [m] p [bar] T [°C]	$\begin{array}{c} 25-80\\ \leq 260\\ \leq 105\\ \leq 12\\ \geq -30- \leq +110\\ \end{array}$ Data for 50 Hz operation Also available for 60 Hz	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
			https://www.ksb.com/de-de/lc/E08A

Hot water pumps

НРК

	DN	150 - 400	Description
	Q [m³/h]	≤ 4150	Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-
The take	H [m]	≤ 185	entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant
	p [bar]	≤ 40	version available.
	T [°C]	≥ 0 - ≤ +400	Applications
17ml			Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-
		Data for 50 Hz operation	sized and large hot-water heating systems, forced circulation boilers, district heating systems
		Also available for 60 Hz	
			https://www.ksb.com/de-de/lc/H02A

Hot water / thermal oil pumps

Etanorm SYT / RSY

100000	DN	25 - 300	Description
1	Q [m³/h]	≤ 1900	Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions
	H [m]	≤ 102	to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear
Ja-	p [bar]	≤ 16	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
	T [°C]	≥ -30 - ≤ +350	bearings: plain bearings, with magnetless KSB SuPremE motor (exception: motor sizes 0.55 kW /
		Data for 50 Hz operation	0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 and
		Also available for 60 Hz	PumpDrive variable speed system; ATEX-compliant version available.
			Applications
			Heat transfer systems, hot water recirculation
KSB Leakage Sensor			https://www.ksb.com/de-de/lc/E44B https://www.ksb.com/de-de/lc/E23A

Standardised chemical pumps

MegaCPK

DN Q [m³/h] H [m] p [bar] T [°C]	≤ 3300 ≤ 162 ≤ 25	also available as a variant with "wat" shaft and sanisal soal shambar With KCD SuDram F. a
		https://www.ksb.com/de-de/lc/M48A

High-pressure pumps

Movitec

	Rp DN Q [m ³ /h] H [m] p [bar] T [°C] n [rpm]	25 - 125 ≤ 160 ≤ 401 ≤ 40 ≥ -20 - ≤ +140	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
KSB SuPremE, PumpDrive, PumpMeter			https://www.ksb.com/de-de/lc/M12A

Multitec

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	≤ 1500 ≤ 1000 ≤ 100	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/de-de/lc/M07A

WKL

DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	≤ 450 ≤ 300 ≤ 30	DescriptionMultistage horizontal centrifugal pump in ring-section design, with radial suction nozzle and closed radial impellers.ApplicationsTransport of raw water and drinking water, applications in industry, pressure boosting, irrigation, sprinkler systems, drainage, etc.
		https://www.ksb.com/de-de/lc/W15B

Axially split pumps

Omega

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm] Data for 50 Hz operatio Also available for 60 H	≤ 4400 ≤ 210 ≤ 25 $\geq 0 - \leq +140$ ≤ 2900 on	stations, extraction duties in desalination systems, power stations, fire-fighting systems,
PumpDrive, PumpMeter, Frequency inverter			https://www.ksb.com/de-de/lc/O00A

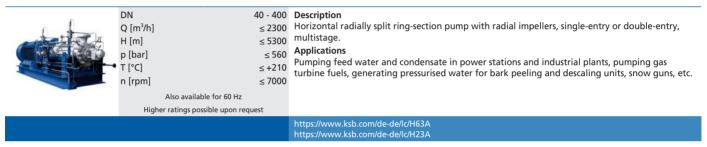
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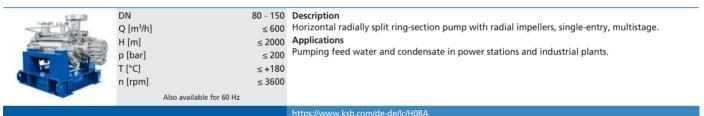
	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	$\begin{array}{l} 350 - 700 \\ \leq 10000 \\ \leq 290 \\ \leq 30 \\ \geq 0 - \leq +140 \\ \leq 1450 \end{array}$ Data for 50 Hz operation Also available for 60 Hz	entry radial impeller, mating flanges to DIN, EN or ASME. Applications Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems.
PumpMeter, Frequency inverter			https://www.ksb.com/de-de/lc/R08A

Pumps for power station conventional islands

HGB / HGC / HGD



HGI



HGM

Q [m³/h] ≤ 390 H [m] < 1400	Applications Pumping feed water in power stations, boiler feed systems and condensate transport in industrial plants
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HGM-S

Q [m³/h] H [m] p [bar]	≤ 390 ≤ 1000 ≤ 100 ≤ +160 ≤ 3600	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/de-de/lc/H00A

WKTB



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