

KIBER KSF

Progressive Cavity



APPLICATION

Kiber KSF progressive cavity pumps are used to transfer products of low and high viscosity as well as products containing soft particles.

Some of its main applications are pumping edible oils, wine, concentrates, and beverages in general. It can also be used to transfer viscous food products.

DESIGN AND FEATURES

- KSF type is a sanitary progressive cavity pump.
- Close-coupled construction with direct coupling to the drive.
- Due to the design, they are self-priming and reversible.
- Open transmission (hygienic design).
- Excentric outlet.
- The lantern and its protectors are made of stainless steel.

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product	1.4404 (AISI 316L)
Other steel parts	1.4301 (AISI 304)
Lantern	1.4308 (CF8)
Stator	black NBR
Gaskets in contact with the product	FPM

Mechanical seal

Rotary part	Silicon carbide (SiC)
Stationary part	Carbon (C)
Gaskets	FPM

Surface finish

Internal	Polish $Ra \leq 0,8 \mu m$
External	Matt

Connections

DIN 11851
CLAMP
SMS

Operating limits

Maximum flow	45m ³ /h	198 US GPM
Maximum working pressure	1200 kPa (12 bar)	174 PSI
Maximum working temperature ¹	85°C	185°F
Maximum speed	1450 rpm	

1) depending on materials

Pump	Capacity at 100 rev. [l]	Maximum flow [m ³ /h]	Maximum differential pressure [kPa]		Maximum speed [rpm]	Minimum starting torque [Nm]	
			Single Stage	Double Stage		Single Stage	Double Stage
KSF-20	2,8	2,4			1450	18	30
KSF-25	6,7	3,8			950	20	36
KSF-30	9,8	5,6			950	25	45
KSF-40	23,7	13,5	600	1200	950	45	80
KSF-50	45,1	19,5			720	70	125
KSF-60	82,0	24,6			500	110	190
KSF-80	185,4	44,5			400	150	260

OPTIONS

Single flushed mechanical seal (Quench).

Mechanical seal: SiC/SiC.

Gland packing.

Stators: white EPDM and white NBR.

Gaskets: EPDM.

Other types of connections.

Heavy-duty transmission.

Fixed transmission.

Pump casing with heating jacket.

Stainless steel trolley.

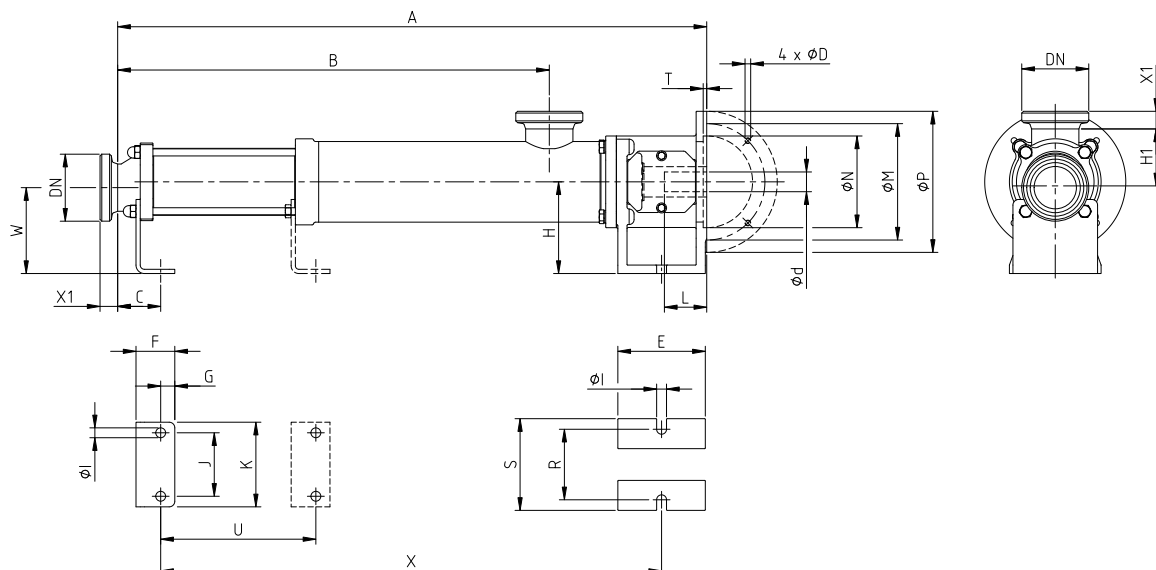
Electrical control panel.

Bypass pressure relief valve.

Cleaning port (CIP).

ATEX certification.

Mechanical seal with drag pivot.

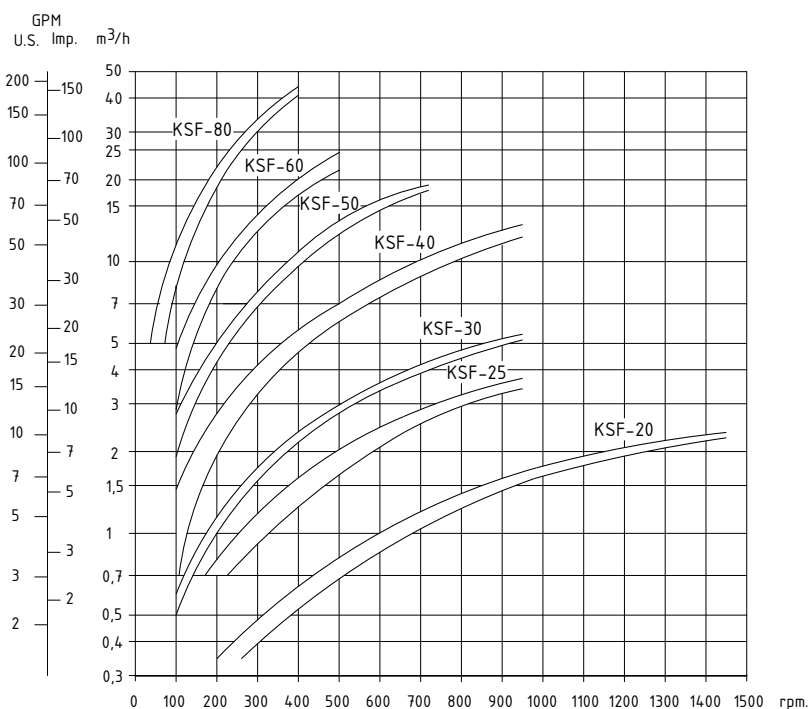
DIMENSIONS

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Pump	DN	DIN 11851		SMS		DN	CLAMP OD		Weight [kg]
		X ₁	DN	X ₁	DN		X ₁	DN	
KSF-20	40	22	38	23	1½"	14	10		
2KSF-20							11		
KSF-25	50	23	51	23	2"	21	16		
2KSF-25							17		
KSF-30	50	23	51	23	2"	21	17		
2KSF-30							18		
KSF-40	65	25	63,5	27	2½"	20	28		
2KSF-40							34		
KSF-50	80	40	76	27	3"	21	32		
2KSF-50							41		
KSF-60	100	30	104	30	4"	21,5	60		
KSF-80	100	30	104	30	4"	21,5	77		

Pump	d		L		A	B	C	D	E	F	G	H	H1	I	J	K	M	N	P	R	S	T	U	X	W
	Min.	Max.	Min.	Max.																					
KSF-20	19	24	42	52	465	302	35	M8	101	35	12	90	61	11	45	70	130	110	160	70	100	5	-	381	87
2KSF-20					567	402																		481	
KSF-25	24	28	52	62	600	416	39	M8	110	40	15	110	70	11	60	90	130	110	160	90	120	5	-	504	107
2KSF-25					692	508																		596	
KSF-30	24	28	52	62	600	416	39	M8	110	40	15	110	73	11	60	90	130	110	160	90	120	5	-	504	104
2KSF-30					750	566																		654	
KSF-40	24	30	52	72	835	612	61	M10	124	55	20	130	83	14	90	120	165	130	200	100	130	5	-	710	122
2KSF-40					1025	802																		900	
KSF-50	24	30	52	72	896	673	65	M10	124	55	20	130	88	14	90	120	165	130	200	100	130	5	-	767	117
2KSF-50					1150	927																		1021	
KSF-60	35	42	72	112	1085	830	70	Ø13,5	121	60	20	160	119	18	130	170	215	180	250	150	190	5	-	953	146
KSF-80	35	42	72	112	1215	960	90	Ø13,5	121	60	20	160	133	18	150	190	215	180	250	150	190	5	-	1063	132

PERFORMANCE CHART



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