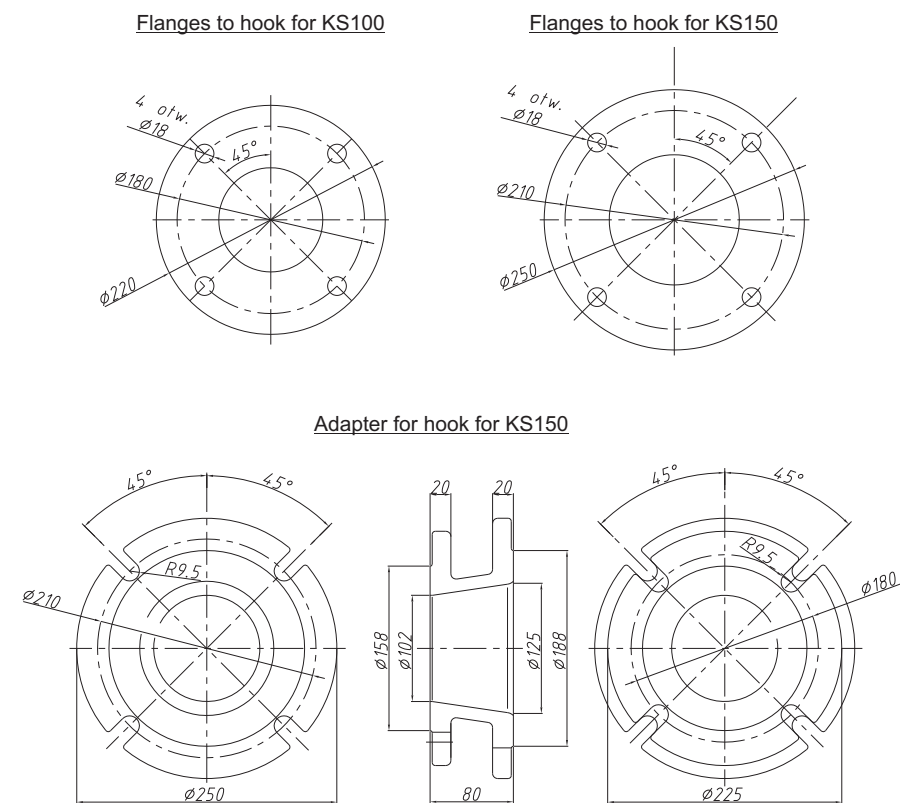
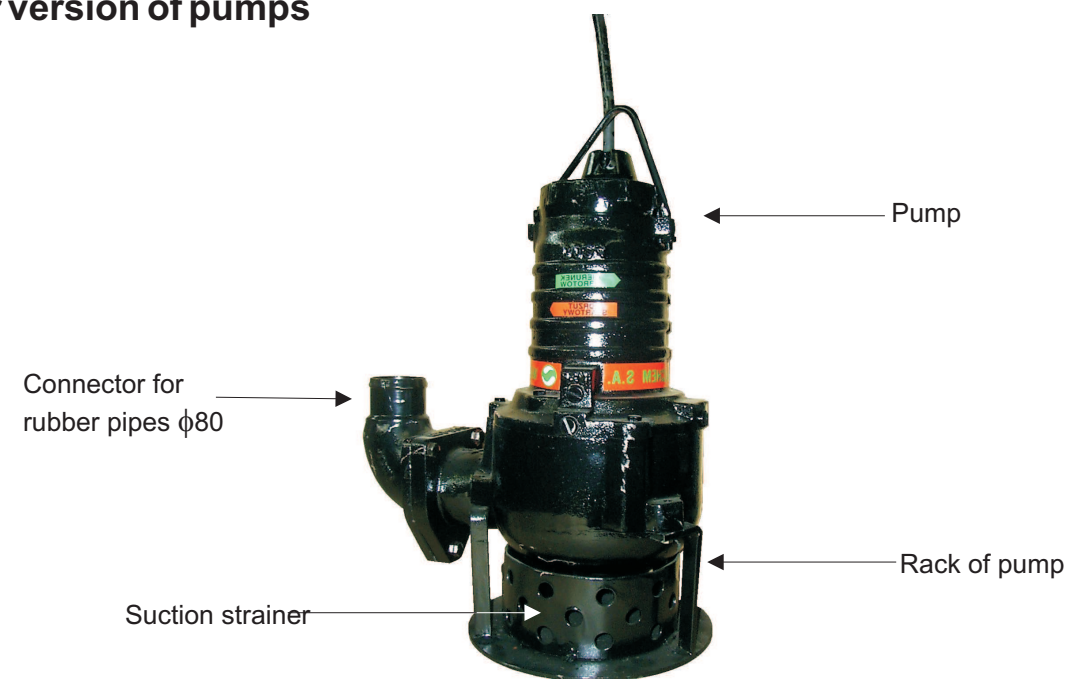


Flanges of pump adapted to hook production METALCHEM-WARSZAWA



Other version of pumps



All version and solution of rack and suction stainer is described on first catalogue card about pumps.

METALCHEM-WARSZAWA Spółka Akcyjna
Studzienna 7a street, 01-259 Warsaw, Poland
www.metalchemsa.pl

Headquarters: +48 22 837 12 70
Secretariat: +48 22 836 07 61
Fax: +48 22 836 89 50



METALCHEM-WARSZAWA
SPÓŁKA AKCYJNA

GENERAL CHARACTERISTIC

Pumps MSK1-80 are designed for pumping sanitary sewage and industrial applications, drainage water and rainwater . They are used in plumbing, sewage treatment plants and pumping stations and many types of drainage systems. Free passage through the channel impeller solids of up to 80mm provides seamless cooperation with pipelines with diameters DN80, DN100 and larger. The pumps have a limiter of temperature in three phases of the stator windings of the motor and switch of humidity. These elements preclude the possibility of damage to the engine in case of overload or moisture getting into it. The motor is sealed from the side of the pump double mechanical seal in oil chamber. The standard pump is equipped with 10 metres cable in neoprene sheath.

OPERATING PARAMETERS

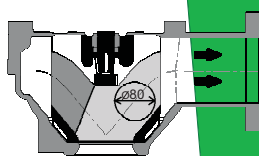
The density of sewage to 1100 kg / m³
Fluid temperature to 40 ° C
Maximum number of starts 25 / hour



Submersibe pumps
MSK1-80
Sewage, industrial
and rainwater

Channel impeller

Free passage

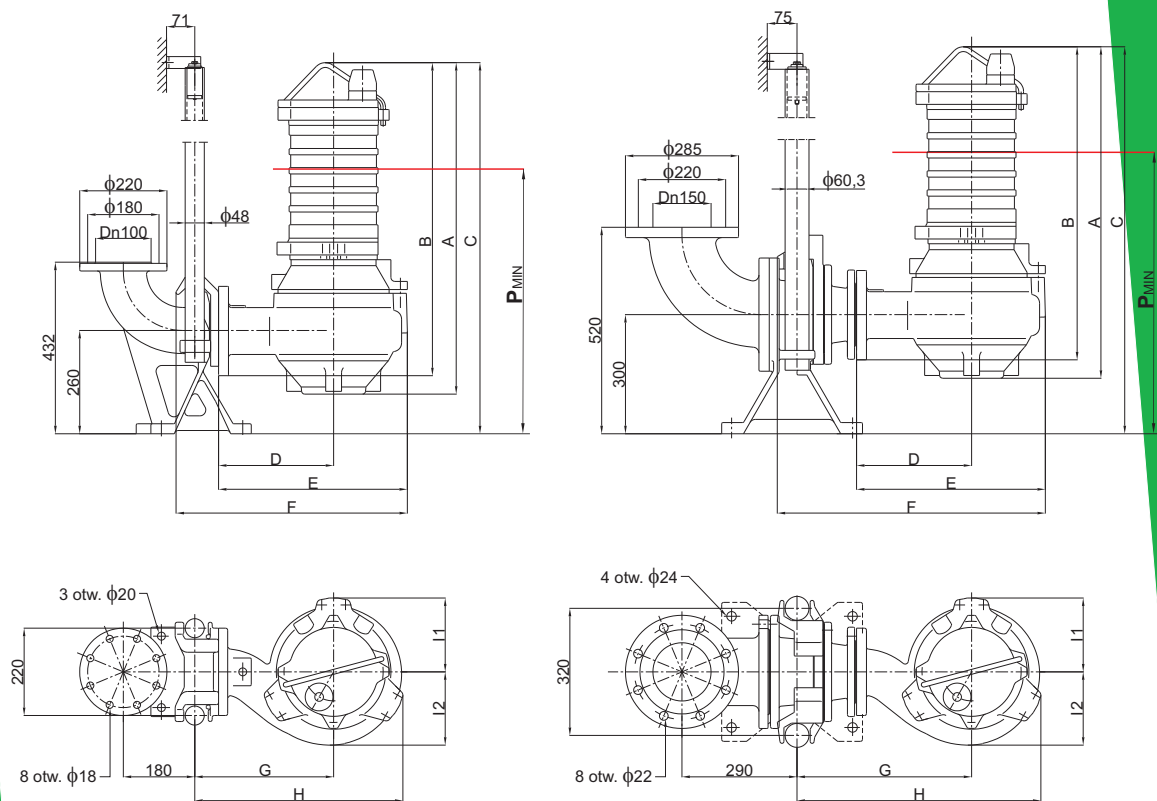


No.	Pump	Power [kW]	n [rpm]	Qn [l/s]	Hn [m]	In ¹ [A]	ZPS ² [A]	cosφ	η [%]	Passage [mm]	Auto coupling	Impeller type	Mass ³ [kg]
1	44	4,0	1435	25,0	9,0	8,3	10-16	0,82	85	80	KS100	1- channel	150
2	54	5,5	1425	27,0	9,8	11,3	10-16	0,84	84	80	KS100	1- channel	160
3	74	7,5	1425	31,5	12,0	14,6	14-20	0,85	89	80	KS100	1- channel	168
4	94	9,2	1455	35,0	13,0	18,5	18-25	0,82	87	80	KS100	1- channel	175
5	114	11,0	1450	36,0	15,7	22,0	25	0,83	87	80	KS100	1- channel	180
6	124	12,5	1455	47,0	16,0	24,1	32	0,89	89	80	KS150	1- channel	285
7	154	15,0	1460	50,0	18,0	27,7	32	0,87	89	80	KS150	1- channel	298
8	184	18,5	1455	55,0	20,0	35,1	40	0,85	89	80	KS150	1- channel	318
9	224	22,0	1455	67,0	22,0	43,2	63	0,92	92	80	KS150	1- channel	331

¹ Starting intermediate star-delta

² Motor overload protection

³ 25kg of pump mass include a pump hook and 10m cable



Pump MSK1-80
suspended for auto coupling KS100

Pump MSK1-80
suspended for auto coupling KS150

No.	Pump	A	B	C _{KS100}	C _{KS150}	D	E	F _{KS100}	F _{KS150}	G _{KS100}	G _{KS150}	H _{KS100}	H _{KS150}	I ₁	I ₂	P _{MIN}
1	44	764	715	863	904	290	476	583	676	350	440	524	615	186	185	600
2	54	764	715	863	904	290	476	583	676	350	440	524	615	186	185	600
3	74	835	788	935	975	290	476	583	676	350	440	524	615	186	185	600*
4	94	835	788	935	975	290	476	583	676	350	440	524	615	186	185	600*
5	114	835	788	935	975	290	476	583	676	350	440	524	615	186	185	600*
6	124	995	942	-	1117	420	645	-	761	-	487	-	704	210	228	800
7	154	995	942	-	1117	420	645	-	761	-	487	-	704	210	228	800
8	184	995	942	-	1117	420	645	-	761	-	487	-	704	210	228	800
9	224	995	942	-	1117	420	645	-	761	-	487	-	704	210	228	800

* Pumps MSK1-80-44, -54, -74, -94 i -114 have ability suspennsion for KS150 in this way P_{MIN} +100

APPLIED MATERIALS

Motor body, pump body, impeller, hook, auto coupling - cast GJL200, GJL250.
The pump shaft - stainless steel.
Fasteners - Stainless steel.
Bearings - ball single row , ball double oblique.
Front double mechanical seal.
Epoxy paint finish.

PUMP MOTORS 400V / 50Hz

Insulation class F

STANDARDS

ISO 9908
ISO 2548 STANDARD CLASS B

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