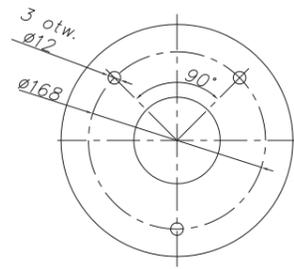
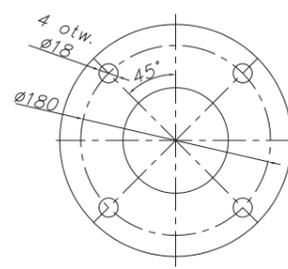


Typical flanges for auto coupling METALCHEM-WARSZAWA KS80 and KS100
Possible other versions pump flange according to customer's requirement.

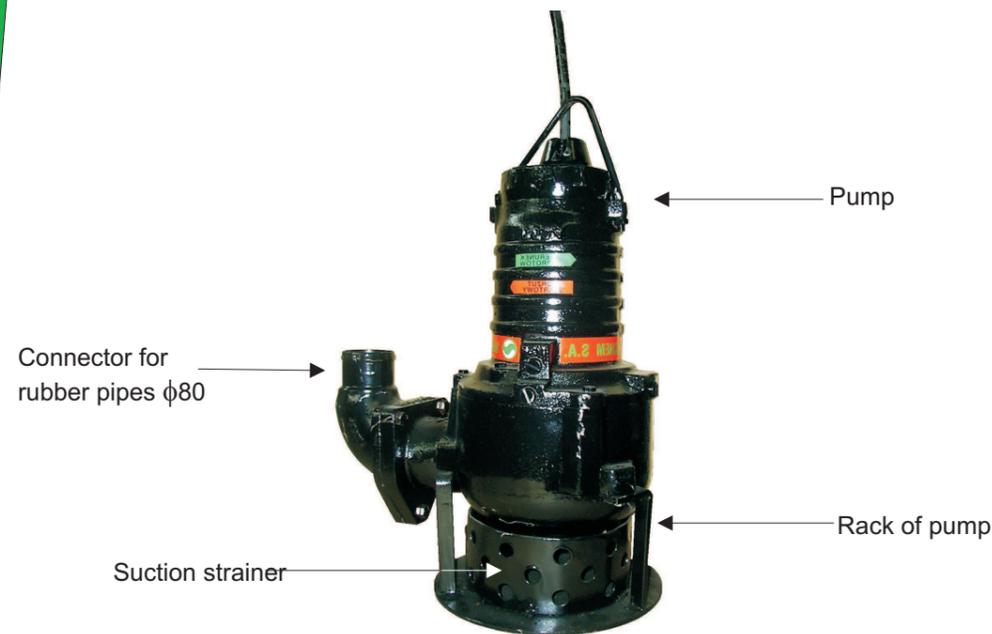
Flanges for auto coupling KS80



Flanges for auto coupling KS100



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

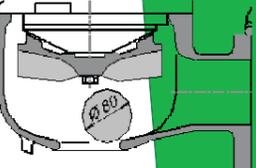
GENERAL CHARACTERISTIC

Pumps MSV-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 under the impeller solids of up to 80mm provides seamless interoperability 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 engine 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.

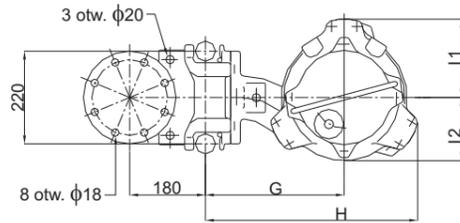
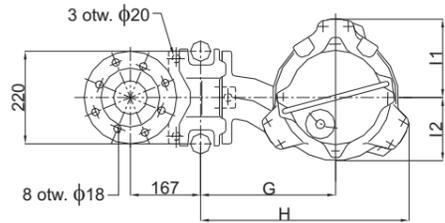
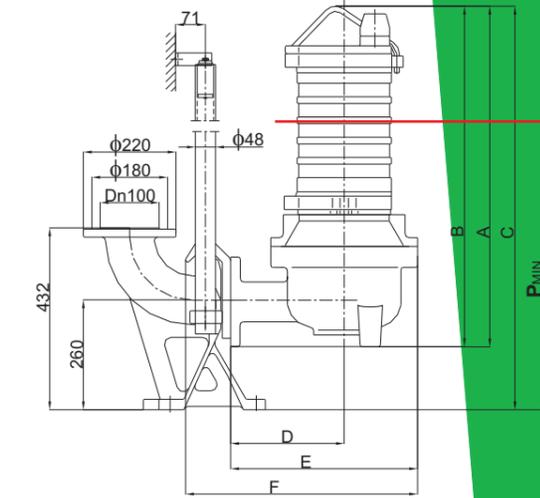
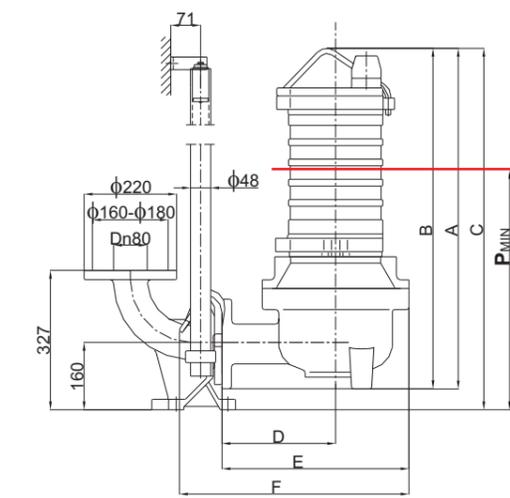


OPERATING PARAMETERS

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

Submersible pumps		Impeller Vortex		Free passage									
MSV-80 2-poles													
Sewage and industrial													
No.	Pump	Power [kW]	n [rpm]	Qn ¹ [l/s]	Hn ¹ [m]	In ² [A]	Zps ³ [A]	cosφ	η [%]	Passage [mm]	Auto coupling	Impeller type	Mass ⁴ [kg]
1	32	3,0	2845	9,5	10,5	6,6	6,3-10	0,82	81	80	KS80	Vortex	60
2	42L	4,0	2885	9,5	13,6	8,2	6,3-10	0,85	82	80	KS80, KS100	Vortex	76
3	42H	4,0	2885	8,0	19,0	8,2	6,3-10	0,85	82	80	KS80, KS100	Vortex	77
4	52L	5,5	2900	11,4	17,5	11,4	10-16	0,82	84	80	KS80, KS100	Vortex	81
5	52H	5,5	2900	10,0	22,7	11,4	10-16	0,82	84	80	KS80, KS100	Vortex	82
6	72	7,5	2920	10,0	22,0	13,9	14-20	0,88	88	80	KS80, KS100	Vortex	146
7	92L	9,2	2920	12,0	23,0	16,8	18-25	0,89	88	80	KS80, KS100	Vortex	150
8	92H	9,2	2920	10,0	29,0	16,8	18-25	0,89	88	80	KS80, KS100	Vortex	151
9	112L	11,0	2920	14,0	27,0	20,3	25	0,89	88	80	KS80, KS100	Vortex	153
10	112H	11,0	2920	10,0	37,0	20,3	25	0,89	88	80	KS80, KS100	Vortex	154
11	152L	15,0	2920	20,0	32,0	26,2	32	0,91	91	80	KS80, KS100	Vortex	252
12	152M	15,0	2920	15,0	39,0	26,2	32	0,91	91	80	KS80, KS100	Vortex	252
13	152H	15,0	2920	13,0	43,0	26,2	32	0,91	91	80	KS80, KS100	Vortex	252
14	182L	18,5	2930	20,0	37,0	32,1	40	0,91	91	80	KS80, KS100	Vortex	261
15	182H	18,5	2930	12,1	53,5	32,1	40	0,91	91	80	KS80, KS100	Vortex	261
16	222L	22,0	2930	26,0	36,0	39,4	63	0,89	90	80	KS80, KS100	Vortex	272
17	222H	22,0	2930	12,5	59,0	39,4	63	0,89	90	80	KS80, KS100	Vortex	272

¹ For pumps H Qn is the maximum value and the minimum value Hn
² For pumps to 4,0 kW DOL pumps from 5.5 kW up starting intermediate star-delta
³ Motor overload protection
⁴ 7kg of pump mass include a pump hook for KS80 and KS100 and 10m cable



Pump MSV-80
suspended for auto coupling KS80

Pump MSV-80
suspended for auto coupling KS100

No.	Pump	A	B	C _{KS80}	C _{KS100}	D	E	F _{KS80}	F _{KS100}	G _{KS80}	G _{KS100}	H _{KS80}	H _{KS100}	I ₁	I ₂	P _{MIN}
1	32	545	568	628	-	220	360	460	-	272	-	398	-	125	150	400
2	42L	655	680	740	-	220	360	460	-	272	-	400	-	125	150	500
3	42H	655	680	740	-	220	360	460	-	272	-	400	-	125	150	500
4	52L	655	680	740	-	220	360	460	-	272	-	400	-	125	150	500
5	52H	655	680	740	-	220	360	460	-	272	-	400	-	125	150	500
6	72	808	808	860	960	270	445	545	552	320	330	495	505	185	150	500
7	92L	808	808	860	960	270	445	545	552	320	330	495	505	185	150	500
8	92H	808	808	860	960	270	445	545	552	320	330	495	505	185	150	500
9	112L	808	808	860	960	270	445	545	552	320	330	495	505	185	150	500
10	112H	808	808	860	960	270	445	545	552	320	330	495	505	185	150	500
11	152L	915	915	930	1090	292	455	570	575	342	352	518	527	185	152	700
12	152M	915	915	930	1090	292	465	570	575	342	352	518	527	185	152	700
13	152H	915	915	930	1090	292	465	570	575	342	352	518	527	185	152	700
14	182L	915	915	930	1090	292	465	570	575	342	352	518	527	185	152	700
15	182H	915	915	930	1090	292	465	570	575	342	352	518	527	185	152	700
16	222L	972	940	1040*	1090	330	515	615	623	382	390	560	567	185	177	750
17	222H	972	940	1040*	1090	330	515	615	623	382	390	560	567	185	177	750

*Pumps MSV-80-222L; -222H are suspended for auto coupling KS80H.
All pumps have ability suspension for KS100 but in this way P_{MIN} +100

APPLIED MATERIALS

Motor body, pump body, impeller, hook, auto coupling - cast GJL200, GJLL250.
The pump shaft - stainless steel.
Fasteners - Stainless steel.

Bearings - ball single row (Z), 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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