

# Immersion pumps

# Type MPC 80-90-100



### Usages:

The pumps are suitable to transfer liquids containing impurities measuring up to 2 mm.

The hydraulic components, namely the brass impeller and the aluminium scroll and pump body, allow the pumps to be used with water, emulsions and oily substances in general, with a maximum viscosity of 3° Engler (21 CST).

The temperature of the liquid must not exceed 90° C.

### They are usually used on:

**Machine tools**

(milling machines – lathes - drills)

**Filtration systems.**

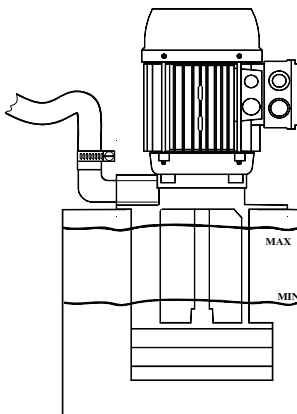
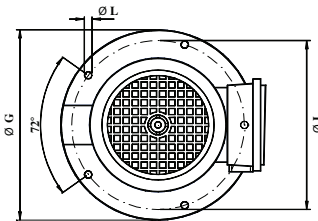
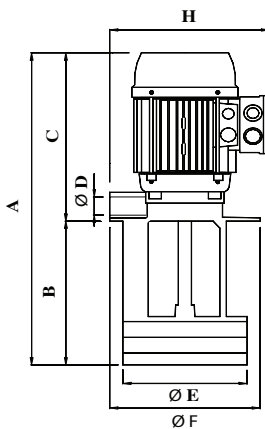
They should usually be installed on a tank, with a capacity in proportion to the flow rate, at about 4–5 cm from the bottom. It is important to check that the maximum level of the liquid in the tank always remains 3 - 4 cm. lower than the flange (see figure).

In cases where the liquid is particularly dirty, the user is recommended to construct the tank in compartments to allow the dirt to deposit before it is stirred up by the pump.

**For other usages you are advised to consult our technical office.**

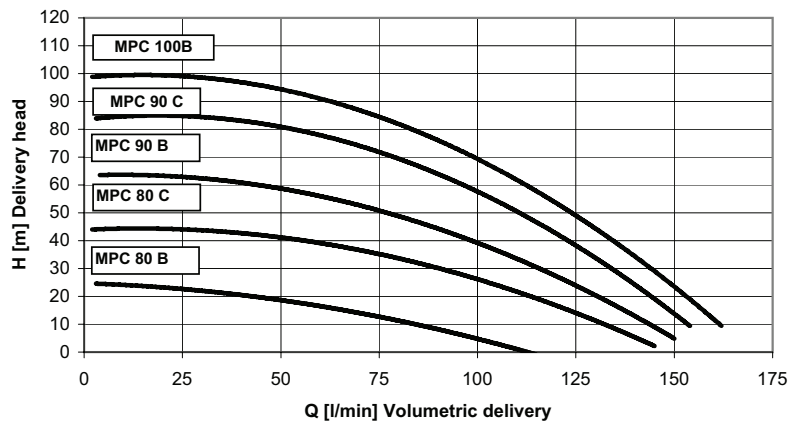
**Table of dimensions and weights**

TYPE	A mm	B mm	C mm	ØD mm	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Kg.
MPC 80B	490	210	280	1"	190	—	230	245	204	9	15,96
	540	260									16,10
	615	335									16,25
	730	450									18,00
MPC 80C	520	240	280	1"	190	—	230	245	204	9	17,86
	570	290									18,00
	645	365									18,15
	760	480									19,00
MPC 90B	583	260	323	1"	190	—	230	255	204	9	25,46
	633	310									25,60
	708	385									25,75
	823	500									27,50
MPC 90C	613	290	323	1"	190	—	230	255	204	9	26,36
	663	340									26,50
	738	415									26,65
	853	530									28,50
MPC 100 B	650	280	370	1 1/4"	202	220	250	275	235	9	38,50
	700	330									39,00
	750	380									39,50
	800	430									40,00
	980	610									42,20



**Electrical features**

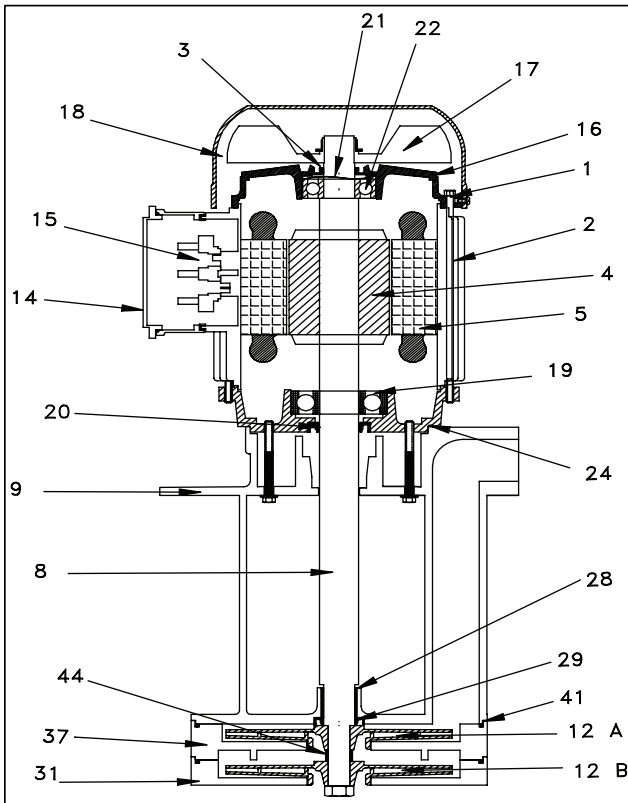
TYPE	KW. Input	Hz. 50		Hz. 60			
		230/400	254-290/440-500	230/400	208-230/440-460	254-277/440-480	318-346/550-600
MPC 80B	1,10	4,3/2,5	3,6/2,1	5,2/3	4,6/2,7	4,3/2,5	3,8/2,2
MPC 80C	2,00	6/3,5	5/2,9	7,2/4,2	6,4/3,7	6/3,5	5,2/3
MPC 90B	3,10	9,3/5,4	7,8/4,5	11,2/6,5	10/5,8	9,3/5,4	8,1/4,7
MPC 90C	3,90	11,4/6,6	9,5/5,5	13,8/8	12,1/7	11,4/6,6	10/5,8
MPC 100 B	5,60	16,2/9,4	14,7/8,5	19,5/11,3	17,6/10,2	16,2/9,4	13,5/7,8



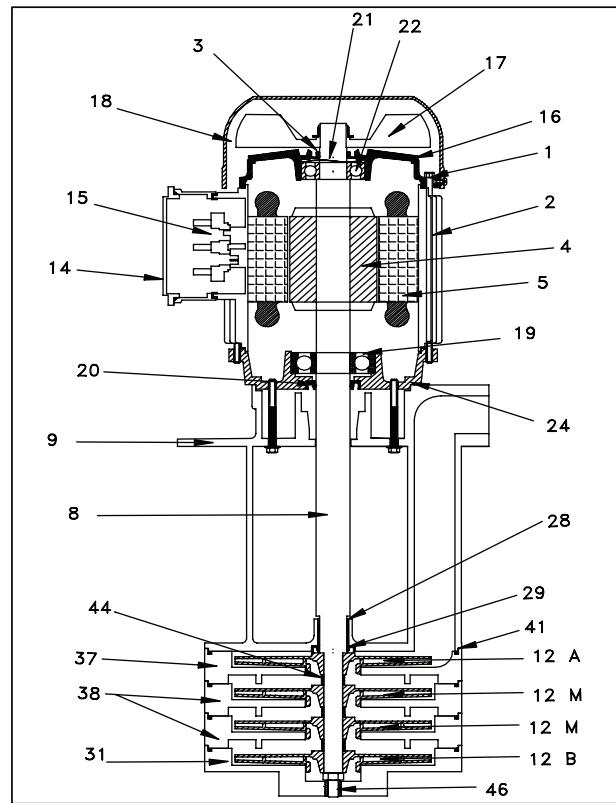
The data of this diagram are referred to a viscosity not higher than 5 CST 20°C



MPC 80



MPC 90 - 100



MPC 80 B - 80C

MPC 90 B

MPC 90 C

MPC 100B

Components	Materials	Materials	Materials	Materials
1 Rod	Steel	Steel	Steel	Steel
2 Frame	Aluminium	Aluminium	Aluminium	Aluminium
3 V-Ring	NBR $\phi$ 20	NBR $\phi$ 25	NBR $\phi$ 25	NBR $\phi$ 30
4 Rotor				
5 Stator				
8 Shaft	Steel C 40	Steel C 40	Steel C 40	Steel C 40
9 Pump body	Aluminium	Aluminium	Aluminium	Aluminium
12 Impeller	Brass 58	Brass 58	Brass 58	Brass 58
14 Terminal box	Nylon	Nylon	Nylon	Nylon
15 Terminal block	mm. 50X32 6P	mm. 50X32 6P	mm. 50X32 6P	mm. 50X32 6P
16 Non-drive end shield	Aluminium	Aluminium	Aluminium	Aluminium
17 Fan	Nylon	Nylon	Nylon	Nylon
18 Fan cover	Nylon***	Nylon***	Nylon***	Nylon***
19 Drive bearing	6305 ZZ	6305 ZZ	6305 ZZ	62207 2RS
20 Sealing ring	NBR 25X40X7	NBR 25X47X7	NBR 25X47X7	NBR 35X47X7
21 Spring ring	$\phi$ 47	$\phi$ 52	$\phi$ 52	$\phi$ 62
22 Non-drive bearing	6204 ZZ	6205 ZZ	6205 ZZ	6206 ZZ
24 Drive end shield	Aluminium	Aluminium	Aluminium	Aluminium
28 Main bronze bearing	23x20x20	23x20x20	23x20x20	23x20x20
29 Sealing ring	NBR 20X32X5	NBR 20X32X5	NBR 20X32X5	NBR 20X32X5
31 House impeller	Aluminium	Aluminium	Aluminium	Aluminium
37 Diffuser - upper	Aluminium (on 80C )	Aluminium	Aluminium	Aluminium
38 Diffuser - middle	=====	Aluminium	Aluminium	Aluminium
41 OR ring	NBR	NBR	NBR	NBR
44 Spacer	Steel (on 80C )	Steel	Steel	Steel
46 Bottom bronze bearing	=====	=====	Bronze	Bronze

