



Uses

They are suitable for transferring liquids containing impurities up to 3 mm in size. Their hydraulic components: impeller, feed screw and pump body in PBT allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engel).

The temperature of the liquid must not exceed 70°C. They are commonly used on:

- machine tools (milling and turning machines-drills)
- glass processing machinery (TRI version)
- air-conditioning systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 2-3 cm from the bottom. It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

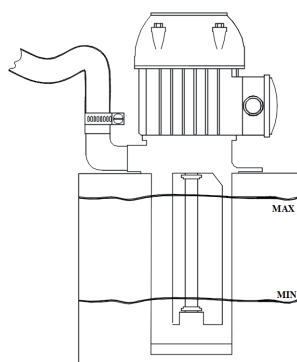
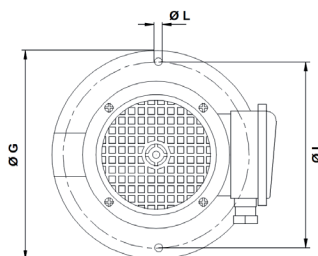
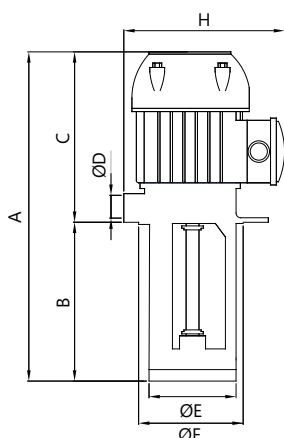
For different uses, please consult our Technical Office.

Size and weights table

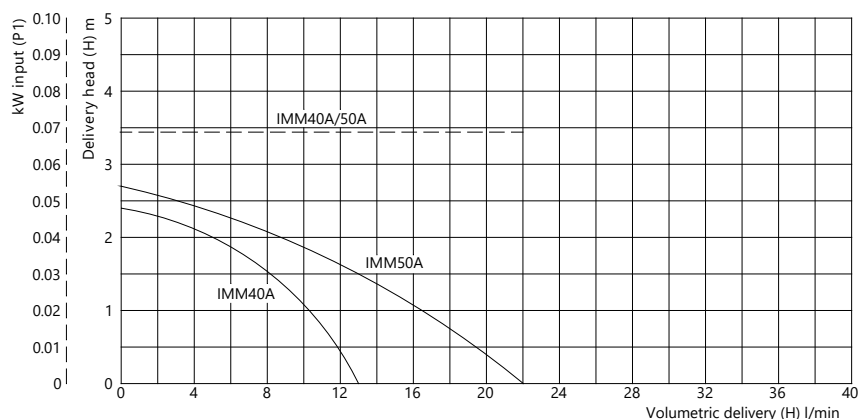
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
IMM 40	224	80	144	3/8"	78	90	130	140	114	7 (n.2)	1.80
	264	120									1.83
	294	150									1.85
	324	180									1.88
	324	180									1.88
IMM 50	224	80	144	3/8"	78	90	130	140	114	7 (n.2)	1.80
	264	120									1.83
	294	150									1.85
	324	180									1.88
	324	180									1.88

Rating plate data

Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cos φ		
IMM 40	0.07	0.03	0.35/0.20	2730	0.58	5 - 13	2.0 - 0
IMM 50	0.09	0.04	0.35/0.20	2620	0.60	3 - 22	2.5 - 0

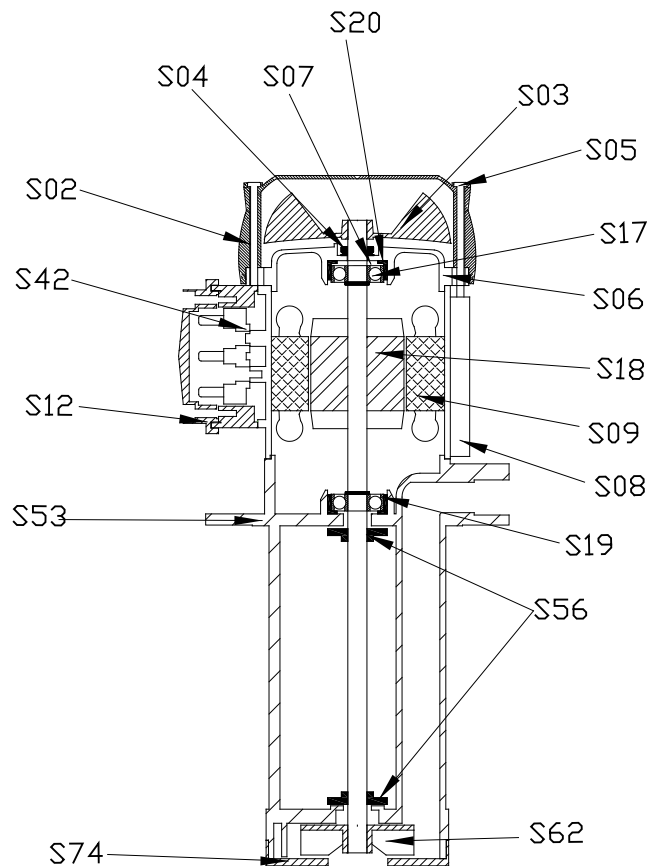


Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Delivery head (H) m	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Type of pump	Volumetric delivery (Q) l/min ↓										
IMM 40	13	12	10	8	5						
IMM 50	22	19	16	13	9	3					



Spare parts nomenclature

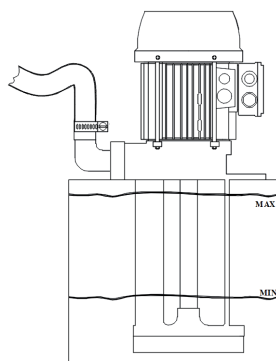
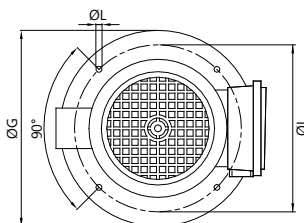
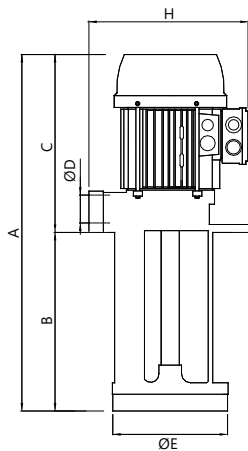
	Component
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + rotor
S19.	Lower bearing
S20.	Bearing casing
S42.	Terminal board
S53.	Pump body
S56.	TRI washer
S62.	Impeller
S74.	Impeller-cover

IMM 40	Materials
	Nylon
	Nylon
	NBR
	Steel
	Nylon
	Steel
	Aluminium
	-
	Nylon
	-
	Steel*
	-
	NBR
	-
	PBT
	PBT
	Nylon
	PBT

*On demand
Ax.AISI316

IMM 50	Materials
	Nylon
	Nylon
	NBR
	Steel
	Nylon
	Steel
	Aluminium
	-
	Nylon
	-
	Steel*
	-
	NBR
	-
	PBT
	PBT
	Nylon
	PBT

*On demand
Ax.AISI316



Uses

They are suitable for transferring liquids containing impurities up to 3 mm in size. Their hydraulic components: impeller and feed screw in nylon, pump body in aluminium allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engle). The temperature of the liquid must not exceed 70°C.

They are commonly used on:

- machine tools (milling and turning machines-drills)
- glass processing machinery (TRI version)
- surface treatment plants
- filtration systems
- air-conditioning systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 4-5 cm from the bottom. It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

For different uses, please consult our Technical Office.

Size and weights table

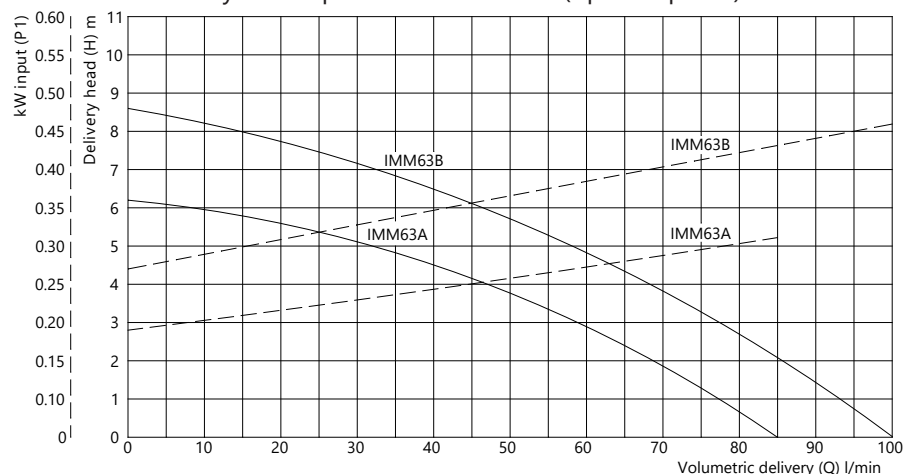
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
IMM 63A	355	150 T	205	3/4"	128	180	190	150	9 (n.4)	5.0
	405	200 T								5.1
	455	250 T								5.3
	505	300 T								5.4
IMM 63B	355	150 T	205	3/4"	128	180	190	150	9 (n.4)	5.5
	405	200 T								5.7
	455	250 T								5.9
	505	300 T								6.0

On demand: T = TRI mode

Rating plate data

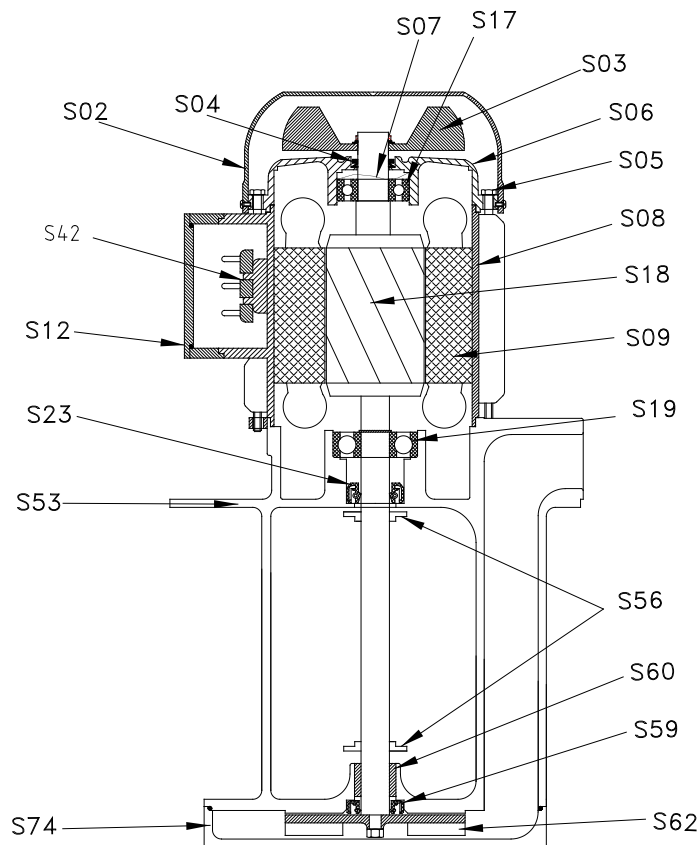
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cosφ		
IMM 63A	0.38	0.25	1.30/0.75	2720	0.72	8 - 85	6 - 0
IMM 63B	0.52	0.37	1.65/0.95	2760	0.79	15-100	8 - 0

Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Delivery head (H) m	0	1	2	3	4	5	6	7	8	9	10
Type of pump	Volumetric delivery (Q) l/min ↓										
IMM 63A	85	77	69	59	47	32	8				
IMM 63B	100	93	85	77	68	58	46	32	15		



Spare parts nomenclature

	Component
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + rotor
S19.	Lower bearing
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S56.	TRI washer
S59.	Seal
S60.	Bushing
S62.	Impeller
S74.	Impeller-cover

IMM 63A	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Aluminium
	PBT
	NBR
	Bronze
	Nylon
	Nylon

*On demand Sheet metal
**On demand.Ax.AISI 416

IMM 63B	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Aluminium
	PBT
	NBR
	Bronze
	Nylon
	Nylon

*On demand Sheet metal
**On demand.Ax.AISI 416

Uses

They are suitable for transferring liquids containing impurities up to 3 mm in size. Their hydraulic components: impeller in brass, feed screw and pump body in aluminium allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engle). The temperature of the liquid must not exceed 90°C.

They are commonly used on:

- machine tools (milling and turning machines)
- glass processing machinery (TRI version)
- surface treatment plants
- filtration systems
- air-conditioning systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 4-5 cm from the bottom.

It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

For different uses, please consult our Technical Office.

Size and weights table

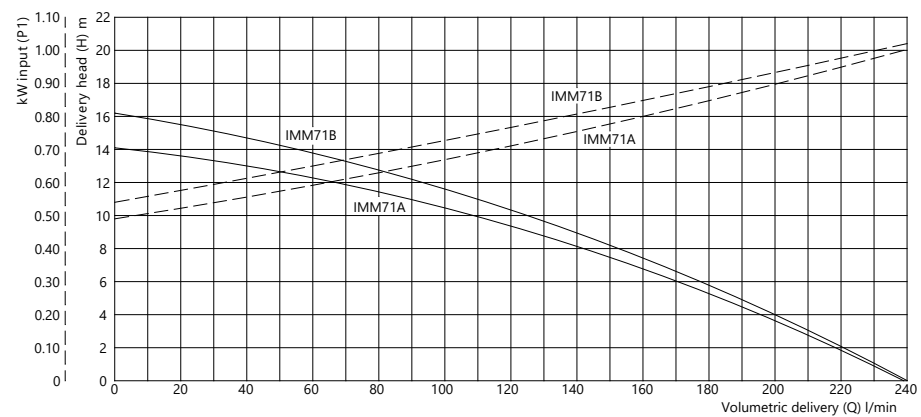
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
IMM 71A	440	200 T	240	1"	190	-	230	225	204	9 (n.5)	9.3
	490	250 T									9.7
	565	325 T									10.0
	680	440									11.3
IMM 71B	440	200 T	240	1"	190	-	230	225	204	9 (n.5)	10.2
	490	250 T									10.5
	565	325 T									10.9
	680	440									12.2

On demand: T = TRI mode

Rating plate data

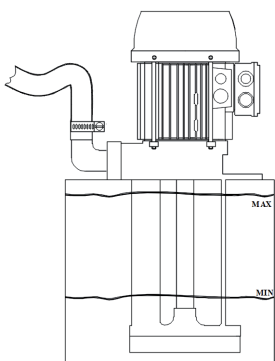
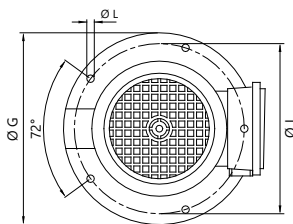
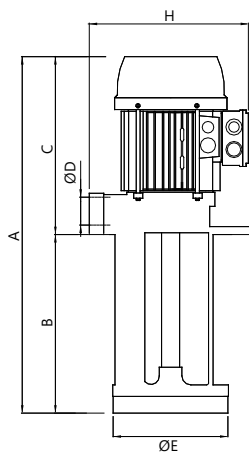
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cos φ		
IMM 71A	1.00	0.75	3.24/1.87	2770	0.77	4 - 238	14 - 0
IMM 71B	1.20	0.90	3.83/2.21	2760	0.78	6 - 240	16 - 0

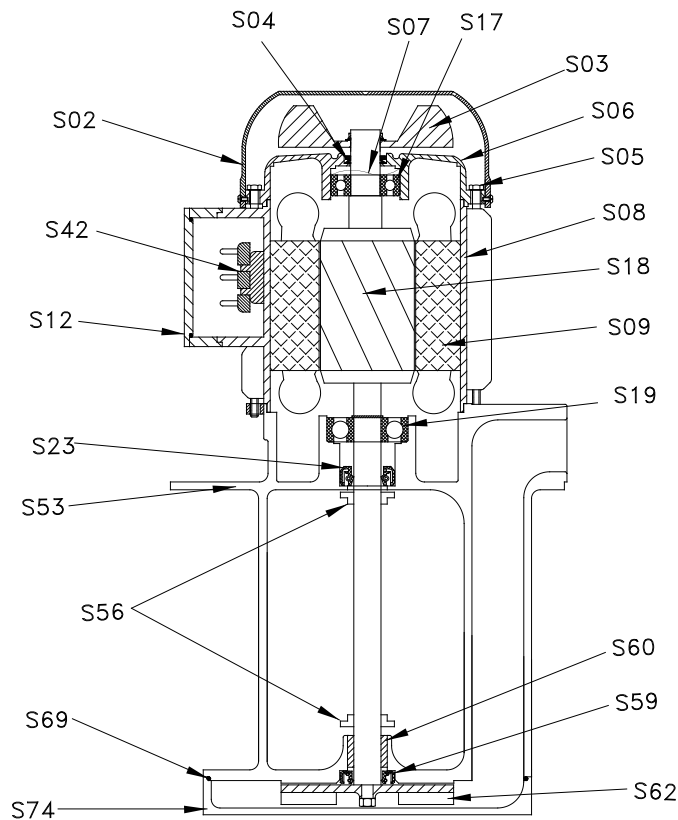
Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Delivery head (H) m	0	1	2	3	4	5	6	7	8	9	10	12	14	16	18
→															
Type of pump	Volumetric delivery (Q) l/min ↓														
IMM 71A	238	229	220	206	197	185	172	157	143	128	109	67	4		
IMM 71B	240	230	220	210	200	190	177	166	152	140	124	67	55	6	





Spare parts nomenclature

	Component
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + rotor
S19.	Lower bearing
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S56.	TRI washer
S59.	Seal
S60.	Bushing
S62.	Impeller
S69.	O-ring
S74.	Impeller-cover

IMM 71A
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Aluminium
PBT
NBR
Bronze
Brass 58
NBR
Aluminium

*On demand Sheet metal
**On demand. Ax. AISI 416

IMM 71B
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Aluminium
PBT
NBR
Bronze
Brass 58
NBR
Aluminium

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Uses

They are suitable for transferring liquids containing impurities up to 3 mm in size.

Their hydraulic components: impeller in brass, feed screw and pump body in aluminium allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engle).

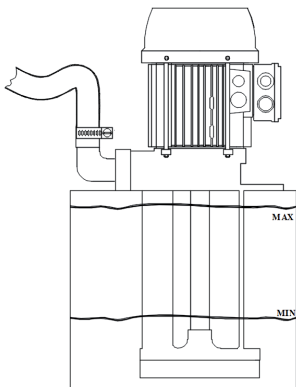
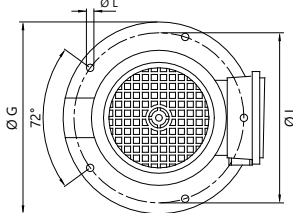
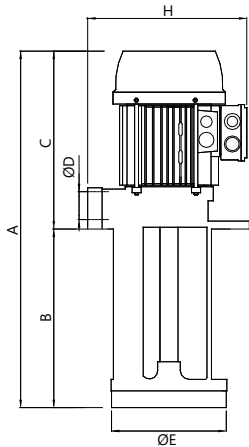
The temperature of the liquid must not exceed 90°C. They are commonly used on:

- machine tools (milling and turning machines)
- glass processing machinery (TRI version)
- surface treatment plants
- filtration systems
- air-conditioning systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 4-5 cm from the bottom. It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

For different uses, please consult our Technical Office.



Size and weights table

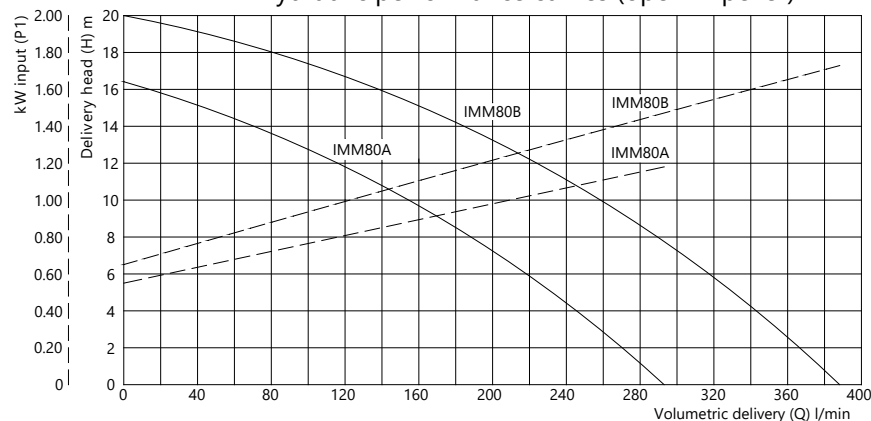
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
IMM 80A	485	200 T	285	1 1/4"	202	220	250	260	235	9 (n.5)	14.5
	535	250 T									15.0
	585	300 T									15.5
	635	350 T									16.0
	815	530									18.0
IMM 80B	485	200 T	285	1 1/4"	202	220	250	260	235	9 (n.5)	15.4
	535	250 T									15.9
	585	300 T									16.4
	635	350 T									16.9
	815	530									19.0

On demand: T= TRI mode

Rating plate data

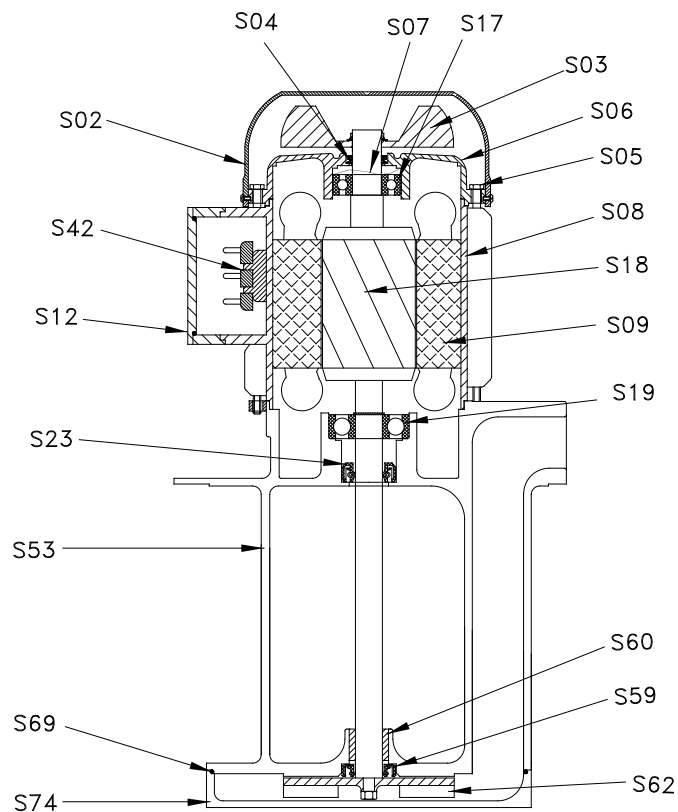
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cos φ		
IMM 80A	1.41	1.1	4.3/2.5	2825	0.81	14 - 293	16 - 0
IMM 80B	1.86	1.5	5.7/3.3	2845	0.83	80 - 388	18 - 0

Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Delivery head (H) m →	0	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Type of pump	Volumetric delivery (Q) l/min ↓															
IMM 80A	293	279	267	256	242	229	218	212	196	179	155	116	71	14		
IMM 80B	388	378	366	355	344	332	319	303	289	275	260	224	185	140	80	



Spare parts nomenclature

	Component
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + rotor
S19.	Lower bearing
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S59.	Seal
S60.	Bushing
S62.	Impeller
S69.	O-ring
S74.	Impeller-cover

IMM 80A
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Aluminium
NBR
Bronze
Brass 58
NBR
Aluminium

*On demand Sheet metal
**On demand Ax.AISI 416

IMM 80B
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Aluminium
NBR
Bronze
Brass 58
NBR
Aluminium

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**On demand Ax.AISI 416



Uses

They are suitable for transferring liquids containing impurities up to 4 mm in size.

Their hydraulic components: impeller and feed screw in cast iron, pump body in steel allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engle).

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

They are commonly used on:

- machine tools
- glass processing machinery
- surface treatment plants
- filtration systems
- spray booths

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 7-8 cm from the bottom. It is important to make sure that the maximum liquid level in the tank is always 5-6 cm lower than the support flange (see figure). Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

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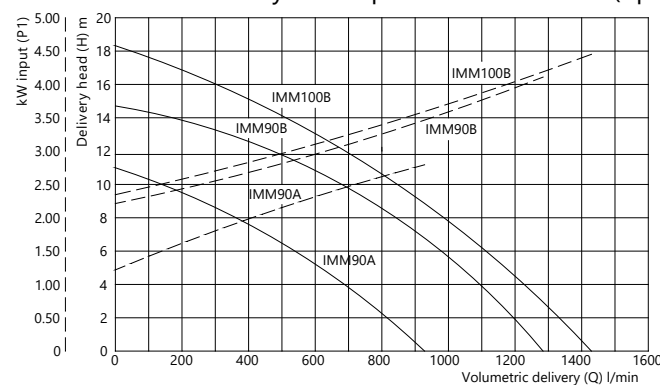
Size and weights table

Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
IMM 90A	695	350	345	2"	235	240	300	130	270	13 (n.4)	47.5
	795	450									48.1
	945	600									48.8
	1145	800									50.0
IMM 90B	695	350	345	2"	235	240	300	130	270	13 (n.4)	49.0
	795	450									49.6
	945	600									50.0
	1145	800									51.5
IMM 100B	730	350	380	2 1/2"	235	240	300	145	270	13 (n.4)	53.0
	830	450									53.6
	980	600									54.3
	1180	800									55.5

Rating plate data

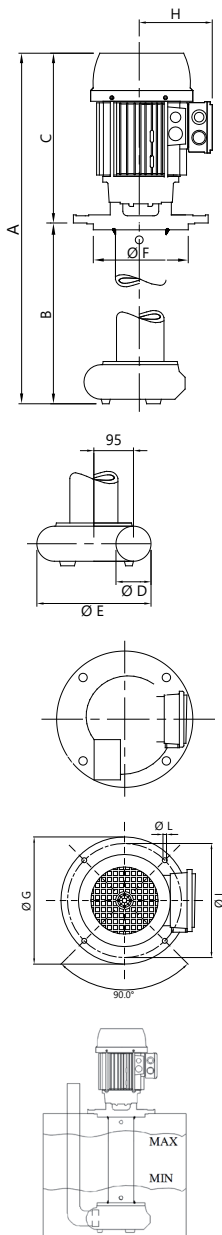
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cos φ		
IMM 90A	2.70	2.2	8.1/4.7	2870	0.83	119 - 928	10 - 0
IMM 90B	3.58	3	10.6/6.1	2855	0.84	172 - 1284	14 - 0
IMM 100B	4.85	4	14.9/8.6	2875	0.81	50 - 1430	18 - 0

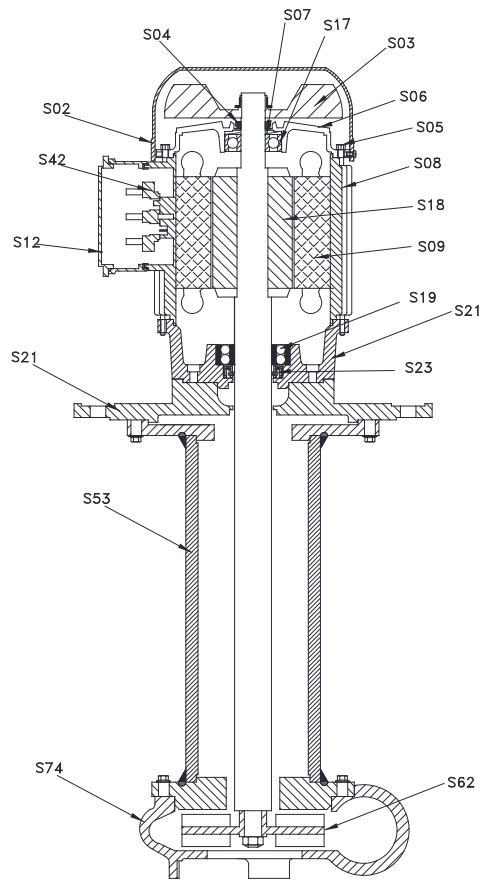
Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Delivery head (H) m	0	2	4	6	8	10	12	14	16	18	20
Type of pump	Volumetric delivery (Q) l/min ↓										
IMM 90A	928	816	709	551	341	119					
IMM 90B	1284	1186	1083	977	833	682	484	172			
IMM 100B	1430	1335	1230	1115	987	847	710	512	304	50	





Spare parts nomenclature

		IMM 90A	IMM 90B	IMM 100B
	Component	Materials	Materials	Materials
S02.	Fan cover	Nylon*	Nylon*	Nylon*
S03.	Fan	Nylon	Nylon	Nylon
S04.	V-ring	NBR	NBR	NBR
S05.	Stay rod	Steel	Steel	Steel
S06.	Upper shield	Aluminium	Aluminium	Aluminium
S07.	Spring ring	Steel	Steel	Steel
S08.	Housing	Aluminium	Aluminium	Aluminium
S09.	Wound stator	-	-	-
S12.	Terminal box	Nylon	Nylon	Nylon
S17.	Upper bearing	-	-	-
S18.	Axis + rotor	Steel	Steel	Steel
S19.	Lower bearing	-	-	-
S21.	Special shield	Cast Iron G20	Cast Iron G20	Cast Iron G20
S21.	Support flange	Cast Iron G20	Cast Iron G20	Cast Iron G20
S23.	Motor seal ring	NBR	NBR	NBR
S42.	Terminal board	-	-	-
S53.	Pump body	Steel	Steel	Steel
S62.	Impeller	Cast Iron G20	Cast Iron G20	Cast Iron G20
S74.	Impeller-cover	Cast Iron G20	Cast Iron G20	Cast Iron G20

*On demand Sheet metal

*On demand Sheet metal

*On demand Sheet metal