


**Uses**

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

Their hydraulic components: impeller and feed screw in PBT, pump body in cast iron 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)
- glass processing machinery (TRI version)
- surface treatment plants
- filtration systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 3-4 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).

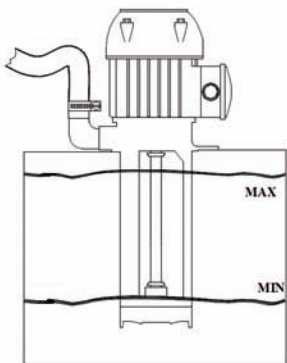
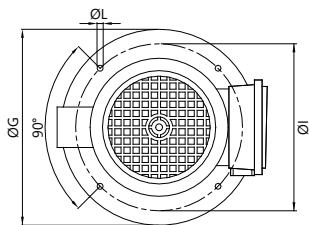
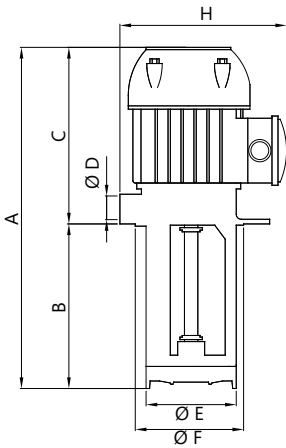
Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

For different uses, please consult our Technical Office.

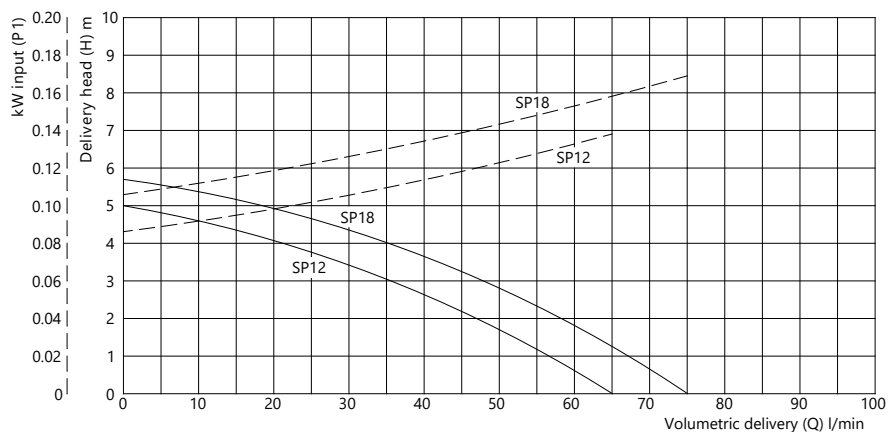
**Size and weights table**

Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
SP 12	265	90 T	165	3/4"	98	100	130	151	115	7 (n.4)	5.0
	285	120 T									5.3
	335	170 T									5.5
	385	220 T									5.7
	435	270 T									6.0
	515	350									6.5
SP 18	265	90 T	165	3/4"	98	100	130	151	115	7 (n.4)	5.1
	285	120 T									5.4
	335	170 T									5.6
	385	220 T									5.7
	435	270 T									6.0
	515	350									6.6

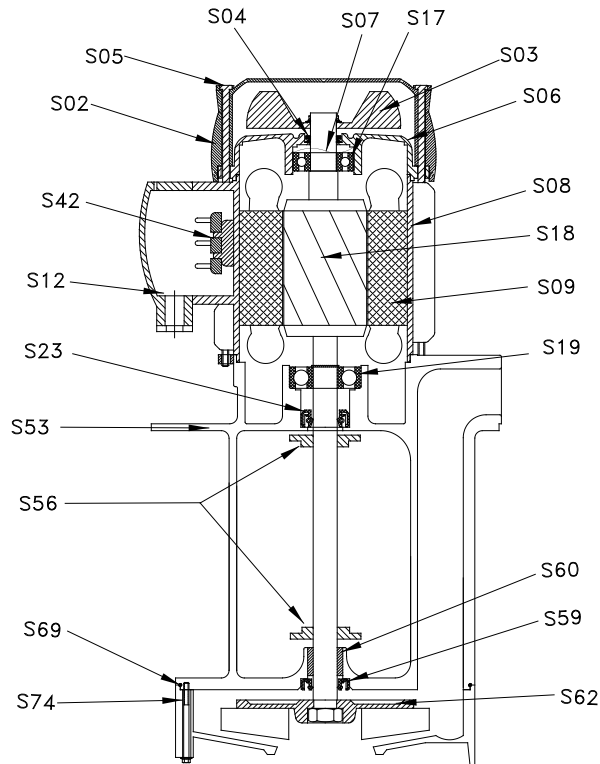
On demand: T= TRI mode


**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 <sup>-1</sup>	cos φ		
SP 12	0.15	0.07	0.52/0.30	2770	0.71	12 - 65	4.5 - 0
SP 18	0.17	0.09	0.55/0.32	2730	0.72	6 - 75	5.5 - 0

**Hydraulic performance curves (open impeller)**

**Hydraulic performance table (open impeller)**

Delivery head (H) m	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Type of pump	Volumetric delivery (Q) l/min ↓												
SP 12	65	61	57	52	47	41	35	29	21	12			
SP 18	75	71	67	63	58	53	48	42	35	28	18	6	



Spare parts nomenclature

SP 12

SP 18

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

Materials
Nylon
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel*
-
NBR
-
Cast Iron G20
PBT
NBR***
Bronze***
PBT**
NBR
PBT**

Materials
Nylon
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel*
-
NBR
-
Cast Iron G20
PBT
NBR***
Bronze***
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NBR
PBT**

\*On demand. Ax. AISI 416

\*\*On demand Cast Iron G20

\*\*\* Available only on suction pipe 350

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**Uses**

They are suitable for transferring liquids containing impurities up to 3 mm in size. Their hydraulic components: impeller and feed screw in PTB, pump body in cast iron 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:

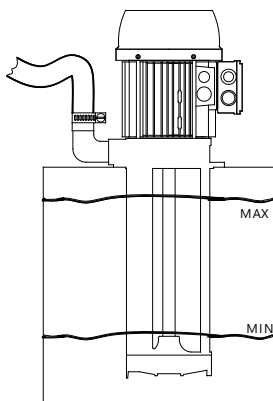
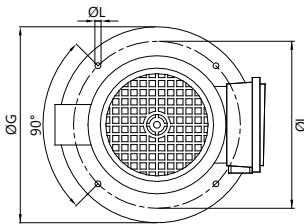
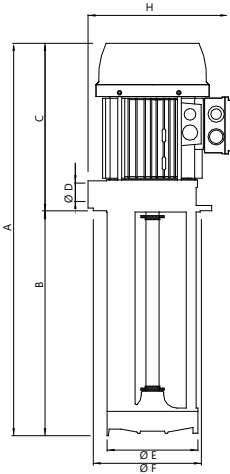
- machine tools (milling and turning machines)
- glass processing machinery (TRI version)
- surface treatment plants
- filtration systems

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 3-4 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**

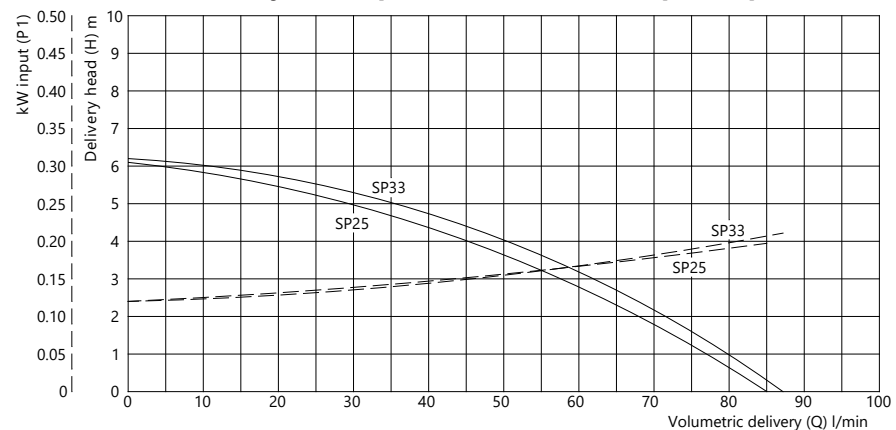
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
SP 25	305	90 T	215	3/4"	98	100	130	170	115	7 (n.4)	6.5
	335	120 T									6.8
	385	170 T									7.1
	435	220 T									7.2
	485	270 T									7.5
	565	350									8.1
SP 33	305	90 T	215	3/4"	98	100	130	170	115	7 (n.4)	7.1
	335	120 T									7.3
	385	170 T									7.6
	435	220 T									7.7
	485	270 T									8.0
	565	350									8.6

On demand: T= TRI mode

**Rating plate data**

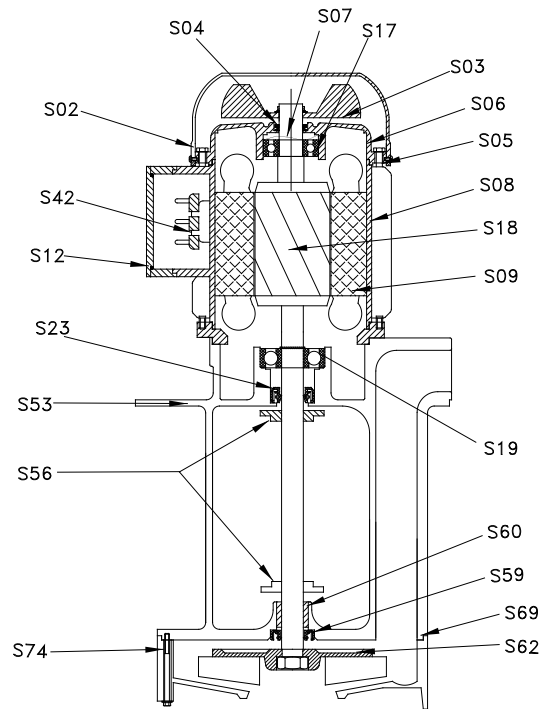
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min <sup>-1</sup>	cos φ		
SP 25	0.26	0.18	0.85/0.49	2810	0.76	5 - 85	6 - 0
SP 33	0.36	0.25	1.13/0.65	2800	0.78	11 - 87	6 - 0

**Hydraulic performance curves (open impeller)**



**Hydraulic performance table (open impeller)**

Delivery head (H) m →	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
	Volumetric delivery (Q) l/min ↓														
SP 25	85	81	77	72	68	63	58	52	46	38	30	19	5		
SP 33	87	84	80	76	71	67	62	56	50	44	36	26	11		



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
S21.	Flange
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

SP 25	
Materials	
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	Aluminium
	NBR
	-
	Cast Iron G20
	PBT
	NBR****
	Bronze****
	PBT***
	NBR
	PBT***

SP 33	
Materials	
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	Aluminium
	NBR
	-
	Cast Iron G20
	PBT
	NBR****
	Bronze****
	PBT***
	NBR
	PBT***

\*On demand Sheet metal  
 \*\*On demand. Ax. AISI 416  
 \*\*\*On demand Cast Iron G20  
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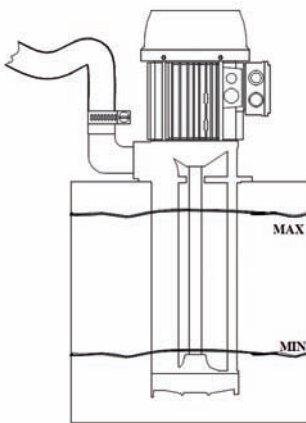
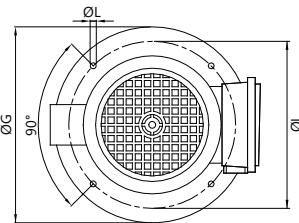
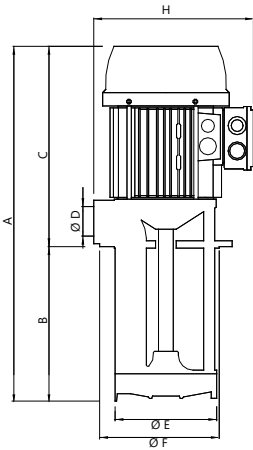
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**Size and weights table**

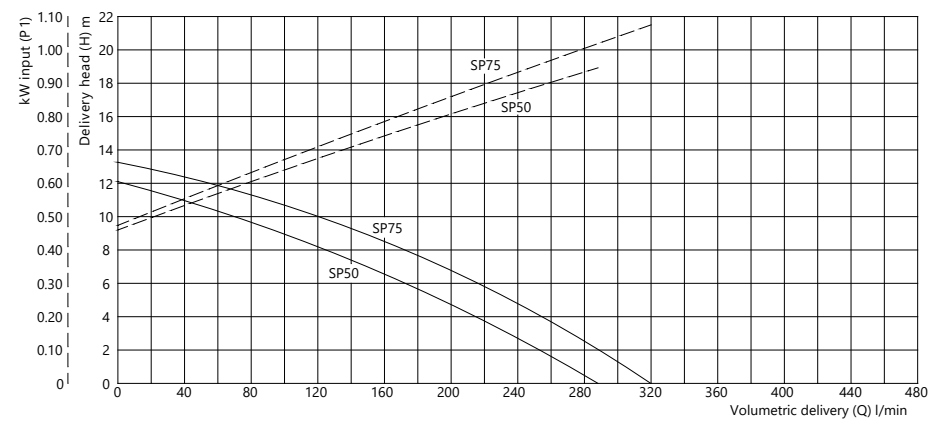
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
SP 50	450	200 T	250	1 ¼"	138	140	180	215	160	9 (n.4)	13.5
	520	270 T									14.2
	600	350									15.0
	690	440									15.9
	800	550									17.0
SP 75	450	200 T	250	1 ¼"	138	140	180	215	160	9 (n.4)	14.5
	520	270 T									15.2
	600	350									16.0
	690	440									16.9
	800	550									18.0

On demand: T= TRI mode

**Rating plate data**

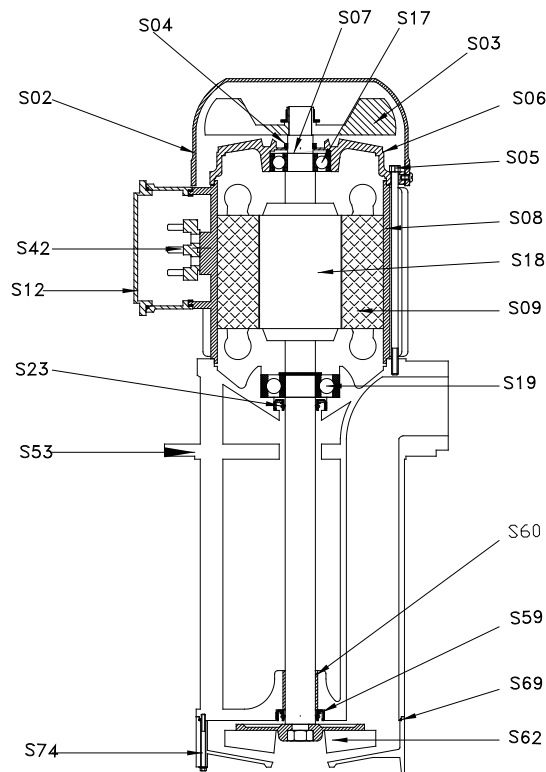
Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min <sup>-1</sup>	cos φ		
SP 50	1.00	0.75	3.24/1.87	2770	0.77	70 - 288	10 - 0
SP 75	1.20	0.90	3.83/2.21	2760	0.78	55 - 320	12 - 0

**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 ↓														
SP 50	288	271	251	234	215	194	172	150	125	100	70				
SP 75	320	304	289	272	254	236	216	195	172	147	120	55			



Spare parts nomenclature

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S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
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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

SP 50

Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Cast Iron G20
NBR
Bronze
PBT***
NBR
PBT***

SP 75

Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
Steel**
-
NBR
-
Cast Iron G20
NBR
Bronze
PBT***
NBR
PBT***

\*On demand Sheet metal

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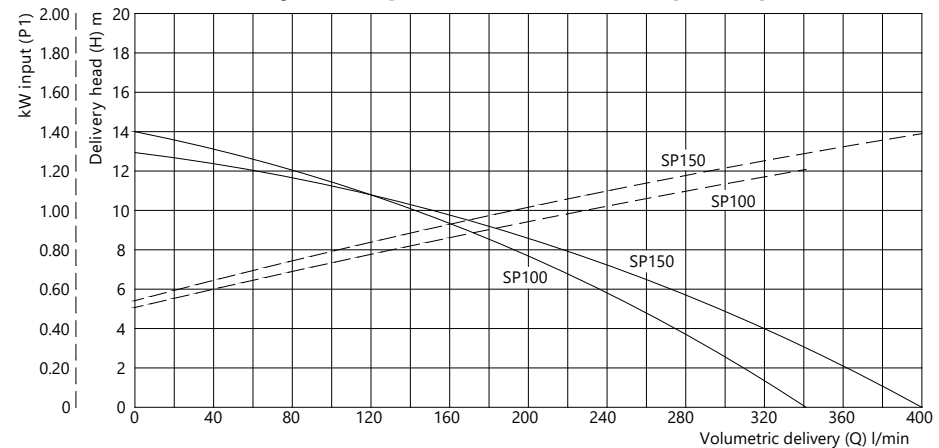
**Size and weights table**

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SP 100	500	200 T	300	1 ¼"	138	140	180	230	160	9 (n.4)	16.3
	570	270 T									17.1
	650	350									18.1
	740	440									19.1
	850	550									20.3
SP 150	500	200 T	300	1 ¼"	138	140	180	230	160	9 (n.4)	17.6
	570	270 T									18.4
	650	350									19.3
	740	440									20.1
	850	550									21.9

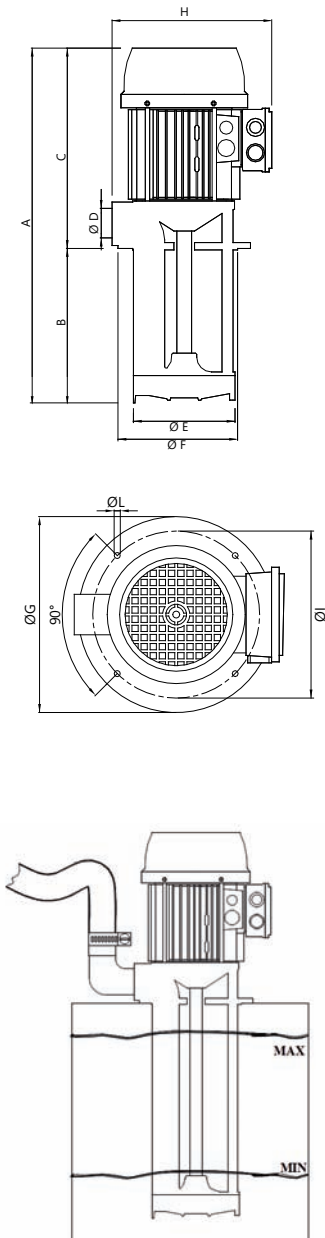
On demand: T= TRI mode

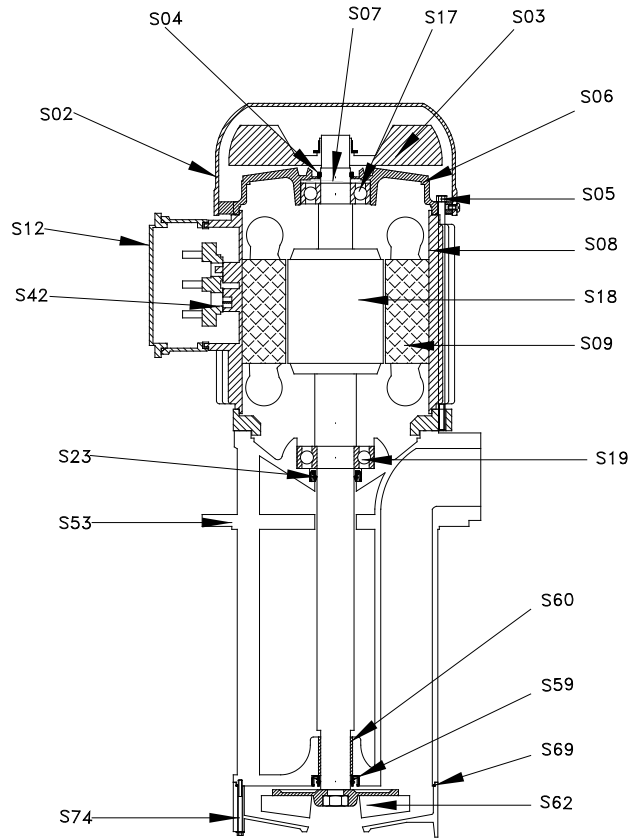
**Rating plate data**

Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min <sup>-1</sup>	cos φ		
SP 100	1.41	1.1	4.3/2.5	2825	0.81	40 - 340	13 - 0
SP 150	1.86	1.5	5.7/3.3	2845	0.83	18 - 400	13 - 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	11	12	13	14
	Type of pump														
Type of pump	Volumetric delivery (Q) l/min ↓														
SP 100	340	326	310	292	275	255	236	216	195	171	144	114	79	40	
SP 150	400	380	358	337	317	296	273	246	219	188	148	107	62	18	





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

SP 100	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Cast Iron G20
	NBR
	Bronze
	PBT***
	NBR
	PBT***

SP 150	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Cast Iron G20
	NBR
	Bronze
	PBT***
	NBR
	PBT***

\*On demand Sheet metal

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