

Serie Type	Serie Type
S/P	MID

Pompe ad asse nudo e pompe con motore idraulico orbitale

Bare shaft pumps and hydraulic orbital motor pumps



S/P MINI 3/4"

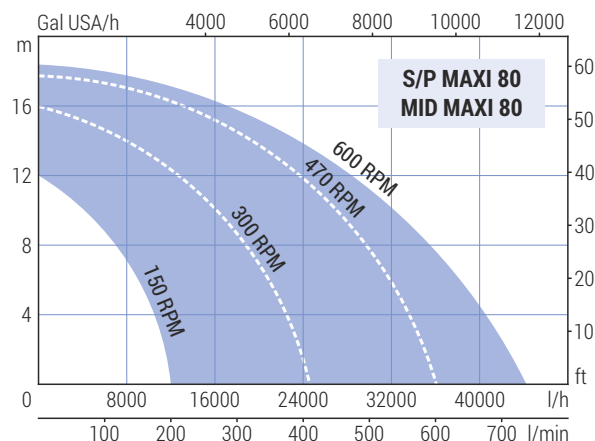
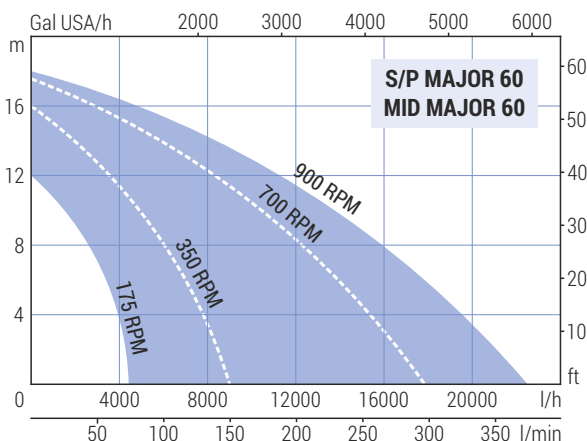
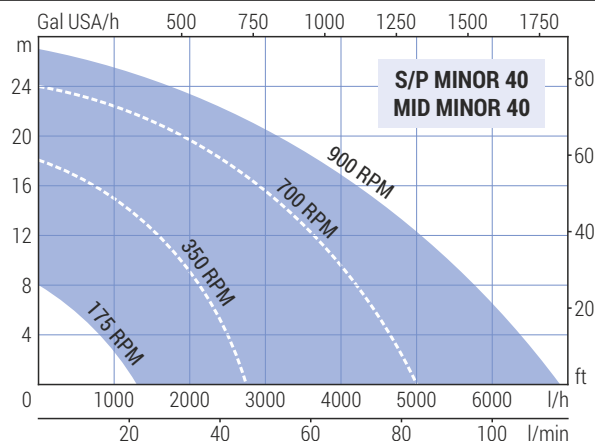
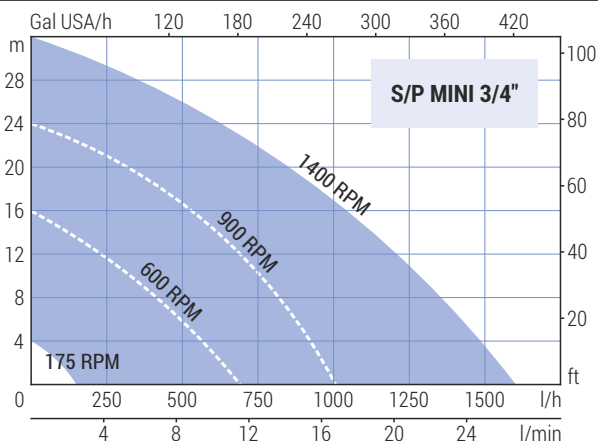


Pompe ad asse nudo (**S/P**)
Bare shaft pumps (**S/P**)

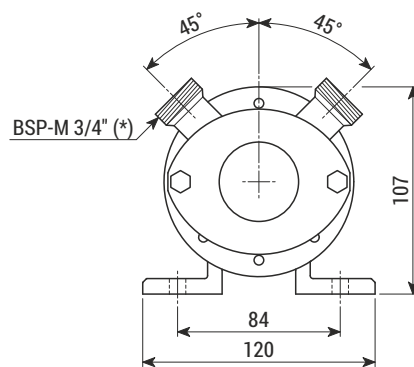
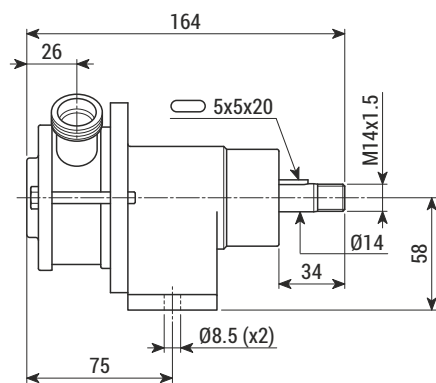


Pompe con motore idraulico orbitale (**MID**)
Hydraulic orbital motor pumps (**MID**)

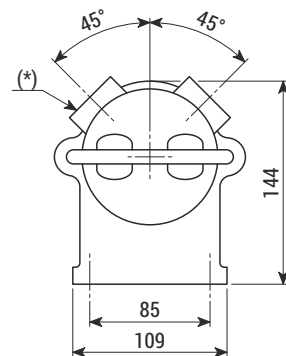
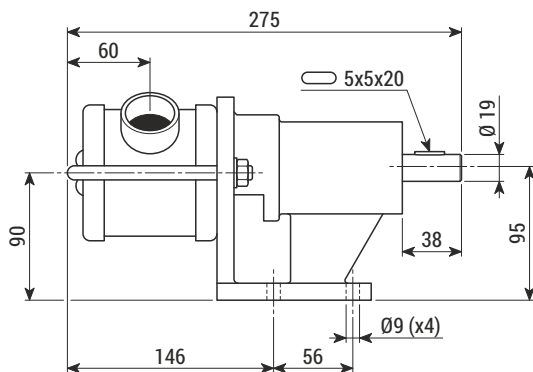
Tipo Type		Giri/min RPM	H = Prevalenza (metri) / Head (meters)											Q = Portata (litri/ora) / Capacity (liters/hour)
			0	4	8	10	12	16	18	20	24	27	32	
S/P MINI 3/4"	min	175	150	0										
		600	700	560	390	300	150	0						
		900	1000	900	840	750	720	540	450	350	0			
	max	1400	1620	1440	1320	1230	1140	1020	900	800	600	400	0	
S/P MINOR 40 MID MINOR 40	min	175	1320	800	0									
		350	2750	2500	2100	1900	1600	800	0					
		700	5000	4700	4300	4000	3700	3000	2520	1800	0			
	max	900	6900	6200	5760	5400	5040	4200	3660	3200	1800	0		
S/P MAJOR 60 MID MAJOR 60	min	175	4320	3840	2800	1750	0							
		350	9000	7800	6000	4900	3700	0						
		700	18000	15000	12000	10400	8400	2500	0					
	max	900	22500	19560	15000	13750	11220	3000	0					
S/P MAXI 80 MID MAXI 80	min	150	12000	10000	7500	4150	0							
		300	24600	22200	18900	16000	12000	0						
		470	36000	34200	30000	27000	24000	12000	0					
	max	600	43800	41400	36000	33000	30000	16000	0					



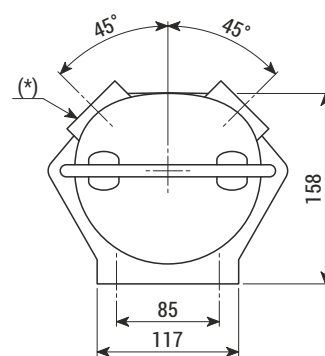
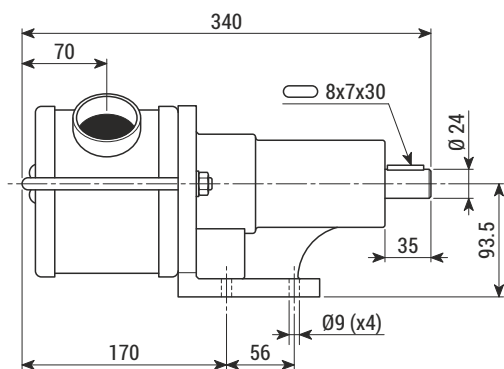
S/P MINI 3/4"
Peso-Weight 1.8 kg



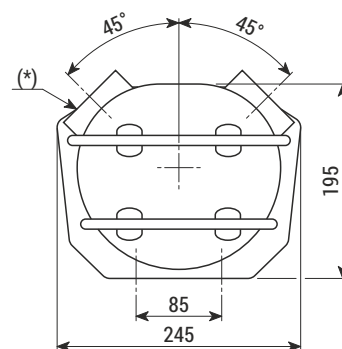
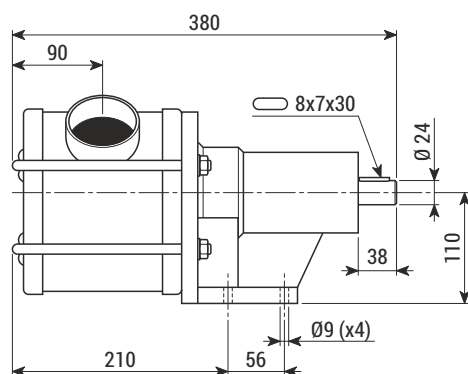
S/P MINOR 40
Peso-Weight 5.4 kg



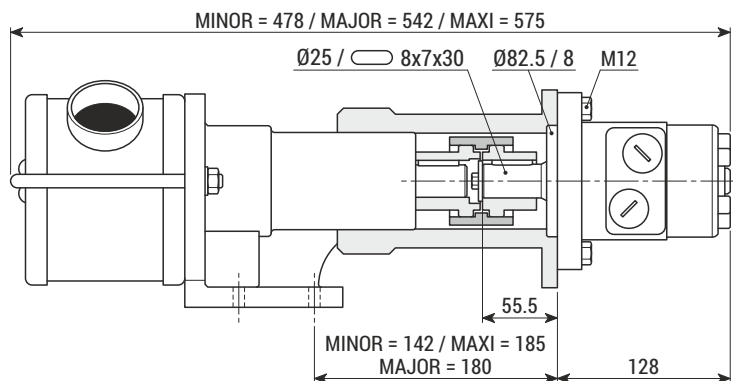
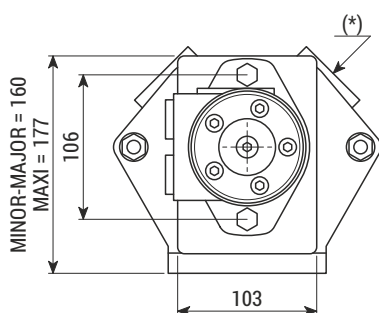
S/P MAJOR 60
Peso-Weight 9.7 kg



S/P MAXI 80
Peso-Weight 15.7 kg



MID MINOR 40
Peso-Weight 11.7 kg
MID MAJOR 60
Peso-Weight 16 kg
MID MAXI 80
Peso-Weight 22 kg



* raccordi disponibili p.21 / available pipe fittings p.21

Tabella di corrosione giranti *Impeller corrosion table*

Materiale Material	 Nitrile Nitrile	 Neoprene Neoprene rubber	 EPDM EPDM	 Gomma naturale Natural rubber	 Silicone Silicon
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Le temperature riportate tra parentesi sono da considerarsi come temperature massime di utilizzo. La temperatura di 20° C rappresenta all'incirca la temperatura ambiente.

Il termine "Variabile" indica che all'interno della stessa famiglia di polimeri si possono avere comportamenti diversi in funzione del tipo di polimero, della concentrazione del prodotto e della temperatura di utilizzo.

Temperatures reported in parentheses must be considered the highest temperatures that can be used. The temperature of 20° C corresponds to an average room temperature.

The term "Variable" means that within the same family of polymers there can be different behaviours according to the kind of polymer, the concentration of the product and the temperature at which it is used.

Caratteristica Characteristic	A Ottimo Excellent	B Discreto/Buono Fair/Good	C Sconsigliato/Scarso Not advisable/Poor	V Variabile Variable	Nd Non disponibile Not available
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Prodotto	NBR	EPDM	CR	NR	VMQ
Acetato di etile	C	A (55° C) - C (70° C)	C	C	B (20° C)
Aceto	B (20° C) - V (60° C)	A (60°-90° C)	B (90° C)	B (20° C)	A (20° C)
Acido Acetico (30%)	B (20° C)	A	B (20° C)	B (20° C)	Nd
Acido Borico	A (60° C) - B (90° C)	A (60° C) - B (90° C)	A (70° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Acido Bromico (40%)	C	A (90° C)	V	B (20° C)	C
Acido Cianidrico	B (60° C)	A (60° C)	V	Nd	B (20° C)
Acido Citrico	A (70° C) - B (80° C)	A	A	A (20° C)	A (20° C)
Acido Cloridrico concentrato	C	C	C	V	C
Acido Cloroacetico	C	B (70°-90° C)	A (20° C) - C (40° C)	V	V
Acido Cromico	C	B	V	V	V
Acido Fluoridrico (50%)	C	B (60° C)	V	C (20° C)	V
Acido Fluoridrico concentrato	C	C	C	C	C
Acido Fluoroborico	A (60° C) - B (85° C)	A (60° C) - B (80° C)	A (60° C) - B (85° C)	A (20° C) - B (65° C)	A (20° C)
Acido Formico	V	A (90° C)	V	B (20° C)	B (20° C)
Acido Fosforico (85%)	C	A (80° C)	A (40° C)	B (65° C)	C
Acido Lattico concentrato	A (20° C)	A (60° C)	A (20° C) - B (60° C) C (80° C)	Nd	Nd
Acido Nitrico (10%)	C	A (40° C) - C (80° C)	C (40° C)	C	B (20° C)
Acido Nitrico (70%)	Nd	C	C	C	C
Acido Ossalico concentrato	B (60° C)	A (100° C)	B (60° C)	B (20° C)	B (20° C)
Acido Palmitico	A (70° C)	B (20° C)	B (20-70° C)	B (20° C)	C
Acido Picrico	C	A (20° C)	B (20° C)	C	C
Acido Picrico (10%)	B (70° C)	B (90° C)	A (20° C) - C (40° C)	B (20° C)	C

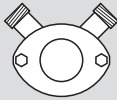
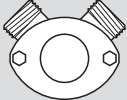
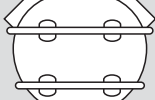
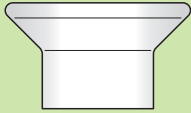
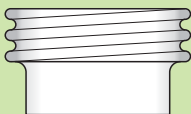
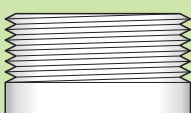
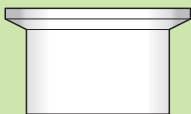
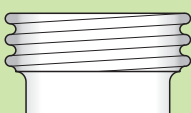
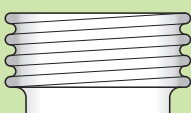
Prodotto	NBR	EPDM	CR	NR	VMQ
Acido Solforico (50%)	A (20° C) - C (80° C)	B (60-80° C)	B (70° C)	B (26° C)	V
Acido Solforico (80%)	B (40° C)-C (60-80° C)	A (60° C) - C (80° C)	C	C	C
Acido Stearico	A (80° C)	B (60° C)	B (60-70° C)	V	B (20° C)
Acqua	A (80° C)	A (100° C)	B (80° C)	A (20° C) - B (80° C)	B (80° C)
Alcol Benzilico	C	B (40° C) - C (60° C)	V	C	Nd
Alcol Etilico	A (60° C) - B (85° C)	A (90° C)	A (70° C) - B (80° C)	A (20° C) - B (65° C)	B (20° C)
Alcol Metilico	B (65° C)	A (70° C) - B (80° C)	A (60° C) - B (80° C)	B (37° C)	A (70° C)
Alcol Propilico	B (80° C)	B (90° C)	A (60° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Ammonio Idrato conc. (38%)	A (80° C)	Nd	A (90° C)	A (65° C)	Nd
Anidride Solforosa	C	C (20° C)	C (20° C)	C	A (20° C)
Anilina	C	A (90° C)	C	C	B (20° C)
Benzina	A (80° C)	C	C	C	C
Birra	A (60° C) - B (80° C)	A (60° C) - B (80° C)	A (60° C)	A (20° C)	A (20° C)
Bromo gas	C	C	C	C	C
Burro	A (60° C)	A (60° C)	B (20° C) - C (60° C)	C	B (20° C)
Butadiene	V	V	V	C	C
Butano	A (90° C) - B (80° C)	C	A (60° C)	C	C
Calcio Idrato	A (20° C) - B (90° C)	A (20° C)	A (20° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Calcio Ipoclorito	C	A (120° C)	C	C	B (20° C)
Cherosene	A (80° C)	C	B (20° C)	C	C
Cloro Umido	C	V	C	C	C
Cloroformio	C	C	C	C	C
Gelatina	A (70° C)	A (80° C)	A (60° C) - B (80° C)	A (20° C) - B (65° C)	A (20° C)
Glicerina	A (80° C)	A (80° C) - B (90° C)	A (70° C)	A (20° C) - B (65° C)	A (20° C)
Glucosio	A (70° C)	A (80° C)	A (60° C)	A (20° C) - B (48° C)	A (20° C)
Iodio	B (60° C) A (20° C) 6.5%	B (70° C) A (20° C) 6.5%	C	C	C
Latte	A (60° C)	A (100° C)	A (60° C)	A (20° C) - B (37° C)	A (20° C)
Magnesio Cloruro	A (70° C) - B (80° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Magnesio Solfato	A (80° C) - B (100° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	B (85° C)	A (20° C)
Mercurio	A (60° C)	A (60° C)	A (60° C)	A (20° C)	A (20° C)
Metiletilchetone	C	A (60° C) - B (90° C)	C	C	C
Nafta	A (80° C)	C	C	C	C
Olio di Anilina	C	B (20° C)	C	C	C
Olio di Cotone	A (70° C) - B (80° C)	A (20° C) - B (80° C)	B (65° C)	C	A (20° C)
Olio di fegato di merluzzo	A (20° C) - B (50° C)	A (20° C)	B (20° C)	C	B (20° C)
Olio di Granoturco	A (80° C)	V	B (20° C)	C	A (20° C)
Olio di Lino	A (80° C)	B (20° C)	B (80° C)	C	C
Olio di Oliva	A (80° C)	B (20° C)	V	C	V
Olio di Pino	B (80° C)	C	C	C	C
Olio di Ricino	A (70° C)	A (60° C)	A (70° C)	A (25° C)	A (20° C)
Olio di Soia	A (80° C)	V	B (20° C)	C	C
Olio Idraulico (esteri fosforici)	C	A (100° C)	C	C	V
Olio SAE n.10	A (80° C)	C	V	C	V
Olio Vegetale	A (70° C)	V	C (20° C)	C	A (20° C)
Paraffina	A (60° C)	C	B (20° C)	V	C
Percloroetilene	V	C	C	C	V
Sodio Cloruro	A (70° C)	B (90° C)	A (80° C)	A (65° C)	B

Prodotto	NBR	EPDM	CR	NR	VMQ
Sodio Idrato	B (65° C)	A (20° C)	B (90° C)	A (20° C) - B (65° C)	C (20° C)
Succo di frutta	A (60° C)	A (100° C)	A (60° C)	V	A (20° C)
Succo di pomodoro	A (60° C)	A (80° C)	A (60° C)	Nd	Nd
Toluolo	C	C	C	C	C
Tricloroetilene	C	C	C	C	C
Trietanolammia	C (20° C) 100% B (37° C) 80%	A (70° C)	A (70° C)	B (26° C)	C
Vino	A (90° C)	A (90° C)	A (90° C)	A (20° C) - B (65° C)	A (20° C)
Whisky	A (90° C)	A (90° C)	A (60° C) - C (90° C)	A (20° C) - B (65° C)	A (20° C)
Xilolo	C	C	C	C	C
Zolfo fuso 120° C	C	A (100° C)	A (20° C)	C (20° C)	A (20° C) - C (120° C)
Zucchero di canna	A (60° C) - B (90° C)	A (80° C)	A (20° C) - B (90° C)	A (20° C)	A (20° C)

Product	NBR	EPDM	CR	NR	VMQ
Acetic acid (30%)	B (20° C)	A	B (20° C)	B (20° C)	Nd
Ammonium hydroxide (38%)	A (80° C)	Nd	A (90° C)	A (65° C)	Nd
Aniline	C	A (90° C)	C	C	B (20° C)
Aniline oil	C	B (20° C)	C	C	C
Beer	A (60° C) - B (80° C)	A (60° C) - B (80° C)	A (60° C)	A (20° C)	A (20° C)
Benzyl alcohol	C	B (40° C) - C (60° C)	V	C	Nd
Boric acid	A (60° C) - B (90° C)	A (60° C) - B (90° C)	A (70° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Bromic acid (40%)	C	A (90° C)	V	B (20° C)	C
Butadiene	V	V	V	C	C
Butane	A (90° C) - B (80° C)	C	A (60° C)	C	C
Butter	A (60° C)	A (60° C)	B (20° C) - C (60° C)	C	B (20° C)
Calcium hydrate	A (90° C) - B (90° C)	A (20° C)	A (20° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Calcium hypochlorite	C	A (120° C)	C	C	B (20° C)
Cane sugar liquide	A (60° C) - B (90° C)	A (80° C)	A (20° C) - B (90° C)	A (20° C)	A (20° C)
Castor oil	A (70° C)	A (60° C)	A (70° C)	A (25° C)	A (20° C)
Chlorine (dump)	C	V	C	C	C
Chloroacetic acid	C	B (70°-90° C)	A (20° C) - C (40° C)	V	V
Chloroform	C	C	C	C	C
Chromic acid	C	B	V	V	V
Citric acid	A (70° C) - B (80° C)	A	A	A (20° C)	A (20° C)
Cod-liver oil	A (20° C) - B (50° C)	A (20° C)	B (20° C)	C	B (20° C)
Corn oil	A (80° C)	V	B (20° C)	C	A (20° C)
Cotton oil	A (70° C) - B (80° C)	A (20° C) - C (80° C)	B (65° C)	C	A (20° C)
Diesel oil	A (80° C)	C	C	C	C
Ethyl acetate	C	A (55° C) - C (70° C)	C	C	B (20° C)
Ethyl alcohol	A (60° C) - B (85° C)	A (90° C)	A (70° C) - B (80° C)	A (20° C) - B (65° C)	B (20° C)
Fluoboric acid	A (60° C) - B (85° C)	A (60° C) - B (80° C)	A (60° C) - B (85° C)	A (20° C) - B (65° C)	A (20° C)
Formic acid	V	A (90° C)	V	B (20° C)	B (20° C)
Fruit juices	A (60° C)	A (100° C)	A (60° C)	V	A (20° C)
Gelatine	A (70° C)	A (80° C)	A (60° C) - B (80° C)	A (20° C) - B (65° C)	A (20° C)
Glucose	A (70° C)	A (80° C)	A (60° C)	A (20° C) - B (48° C)	A (20° C)
Glycerine	A (80° C)	A (80° C) - B (90° C)	A (70° C)	A (20° C) - B (65° C)	A (20° C)
Hydraulic oil	C	A (100° C)	C	C	V

Product	NBR	EPDM	CR	NR	VMQ
Hydrochloric acid (conc.)	C	C	C	V	C
Hydrocyanic acid	B (60° C)	A (60° C)	V	<i>Nd</i>	B (20° C)
Hydrofluoric acid (50%)	C	B (60° C)	V	C (20° C)	V
Hydrofluoric acid (conc.)	C	C	C	C	C
Iodine	B (60° C) A (20° C) 6.5%	B (70° C) A (20° C) 6.5%	C	C	C
Kerosene	A (80° C)	C	B (20° C)	C	C
Lactic acid (conc.)	A (20° C)	A (60° C)	A (20° C) - B (60° C) C (80° C)	<i>Nd</i>	<i>Nd</i>
Linseed oil	A (80° C)	B (20° C)	B (20° C)	C	C
Magnesium chloride	A (70° C) - B (80° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Magnesium sulphate	A (80° C) - B (100° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	B (85° C)	A (20° C)
Mercury	A (60° C)	A (60° C)	A (60° C)	A (20° C)	A (20° C)
Methyl alcohol	B (65° C)	A (70° C) - B (80° C)	A (60° C) - B (80° C)	B (37° C)	A (70° C)
Methyl-ethyl-ketone	C	A (60° C) - B (90° C)	C	C	C
Milk	A (60° C)	A (100° C)	A (60° C)	A (20° C) - B (37° C)	A (20° C)
Nitric acid (10%)	C	A (40° C) - C (80° C)	C (40° C)	C	B (20° C)
Nitric acid (70%)	<i>Nd</i>	C	C	C	C
Olive oil	A (80° C)	B (20° C)	V	C	V
Oxalic acid (conc.)	B (60° C)	A (100° C)	B (60° C)	B (20° C)	B (20° C)
Palmitic acid	A (70° C)	B (20° C)	B (20-70° C)	B (20° C)	C
Paraffin	A (60° C)	C	B (20° C)	V	C
Perchloroethylen	V	C	C	C	V
Petrol	A (80° C)	C	C	C	C
Phosphoric acid (85%)	C	A (80° C)	A (40° C)	B (65° C)	C
Picric acid	C	A (20° C)	B (20° C)	C	C
Picric acid (10%)	B (70° C)	B (90° C)	A (20° C) - C (40° C)	B (20° C)	C
Pine oil	B (80° C)	C	C	C	C
Propylic alcohol	B (80° C)	B (90° C)	A (60° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
SAE n.10 oil	A (80° C)	C	V	C	V
Sodium chloride	A (70° C)	B (90° C)	A (80° C)	A (65° C)	B
Sodium hydrate	B (65° C)	A (20° C)	B (90° C)	A (20° C) - B (65° C)	C (20° C)
Soybean oil	A (80° C)	V	B (20° C)	C	C
Stearic acid	A (80° C)	B (60° C)	B (60-70° C)	V	B (20° C)
Sulphur (fused 120° C)	C	A (100° C)	A (20° C)	C (20° C)	A (20° C) - C (120° C)
Sulphur dioxide	C	C (20° C)	C (20° C)	C	A (20° C)
Sulphuric acid (50%)	A (20° C) - C (80° C)	B (60-80° C)	B (70° C)	B (26° C)	V
Sulphuric acid (80%)	B (40° C)-C (60-80° C)	A (60° C) - C (80° C)	C	C	C
Toluol	C	C	C	C	C
Tomatoes juices	A (60° C)	A (80° C)	A (60° C)	<i>Nd</i>	<i>Nd</i>
Trichloroethylene	C	C	C	C	C
Triethanolamine	C (20° C) 100% B (37° C) 80%	A (70° C)	A (70° C)	B (26° C)	C
Vegetable oil	A (70° C)	V	C (20° C)	C	A (20° C)
Vinegar	B (20° C) - V (60° C)	A (60°-90° C)	B (90° C)	B (20° C)	A (20° C)
Water	A (80° C)	A (100° C)	B (80° C)	A (20° C) - B (80° C)	B (80° C)
Whisky	A (90° C)	A (90° C)	A (60° C) - C (90° C)	A (20° C) - B (65° C)	A (20° C)
Wine	A (90° C)	A (90° C)	A (90° C)	A (20° C) - B (65° C)	A (20° C)
Xylol	C	C	C	C	C

Raccordi Pipe fittings

		MINI	MIDEX	MINOR	MAJOR	MAXI
Tipo Type						
Garolla		<i>Non disponibile Not available</i>	Garolla 40	Garolla 40 Garolla 50	Garolla 50 Garolla 60 Garolla 70	Garolla 70 Garolla 80 Garolla 100
DIN 11851		DIN 20 DIN 25	DIN 32 DIN 40	DIN 40 DIN 50	DIN 50 DIN 60 DIN 65	DIN 65 DIN 80 DIN 100
BSP-M		BSP-M 3/4"	BSP-M 1"1/4	BSP-M 1"1/4 BSP-M 1"1/2	BSP-M 2"	BSP-M 2"1/2 BSP-M 3"
BSP-F		<i>Non disponibile Not available</i>	BSP-F 1"	BSP-F 1" BSP-F 1"1/4	BSP-F 1"1/2 BSP-F 2"	BSP-F 2"1/2 BSP-F 3"
Macon		<i>Non disponibile Not available</i>	Macon 40	Macon 40 Macon 50	Macon 40 Macon 50	Macon 70
Triclover		Triclover 1"	Triclover 1"1/2	Triclover 1"1/2	Triclover 2"	Triclover 3"
SMS		SMS 25	SMS 38	SMS 38	SMS 51	SMS 76
BSM (RJT)		BSM 1"	BSM 1"1/2	BSM 1"1/2	BSM 2" BSM 2"1/2	BSM 3"
Friederich		<i>Non disponibile Not available</i>	Friederich 40	Friederich 40	Friederich 40 Friederich 60	Friederich 60

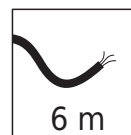
Quadri elettrici Control Panels



Impianto elettrico CE.
CE control panel.



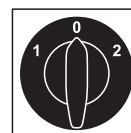
Conforme CE
CE compliance



Cavo di uscita 6 m
Exit cable 6 m



Conforme IP55
IP55 compliance



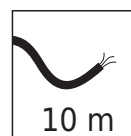
Interruttore/invertitore
Reverse switch



Impianto elettrico CE con derivazione supplementare 24V NC
per sensore di temperatura, pressostato, sensore di livello, ecc.
CE control panel with supplementary 24V NC shunt trip
for temperature sensor, pressure switch, level sensor, etc.



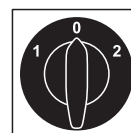
Conforme CE
CE compliance



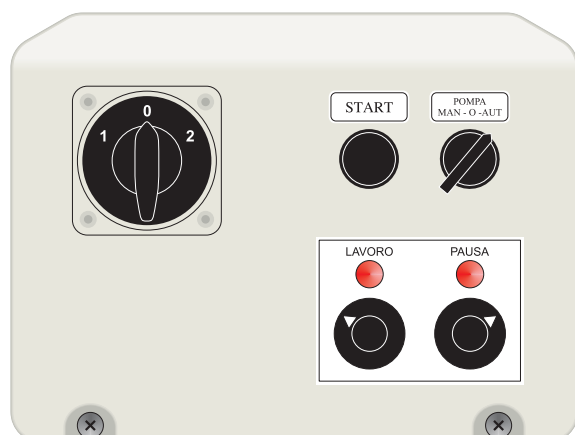
Cavo di uscita 10 m
Exit cable 10 m



Conforme IP55
IP55 compliance



Interruttore/invertitore
Reverse switch

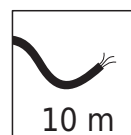


Impianto elettrico CE con temporizzatore con 2 selettori
12 posizioni per pausa e lavoro e con 2 range di temporizzazioni
disponibili (da specificare in caso di ordine):
tipo **LIV1** = lavoro 2-24 minuti, pausa 10-120 minuti;
tipo **LIV2** = lavoro 2-24 minuti, pausa 1-12 ore.
CE control panel with 2 selector switch timer, with 12 possible
selections each and with 2 time rate options (to be stated in
case of order):

LIV1 type = run 2-24 minutes, pause 10-120 minutes;
LIV2 type = run 2-24 minutes, pause 1-12 hours.



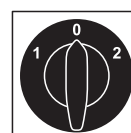
Conforme CE
CE compliance



Cavo di uscita 10 m
Exit cable 10 m

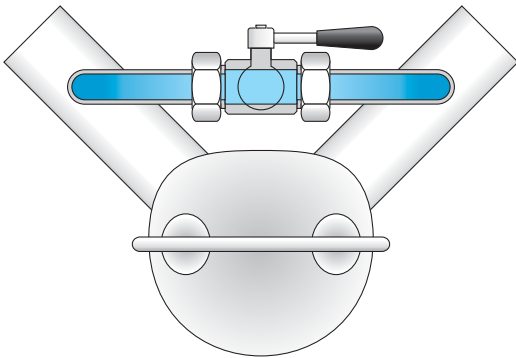


Conforme IP55
IP55 compliance

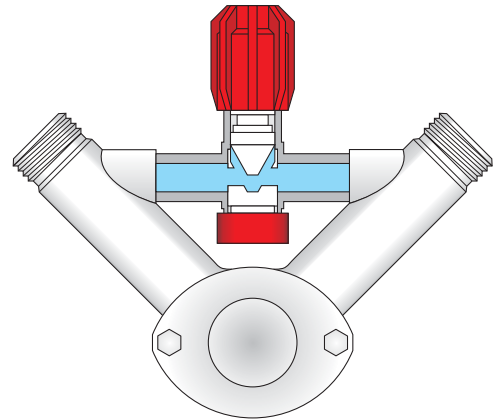


Interruttore/invertitore
Reverse switch

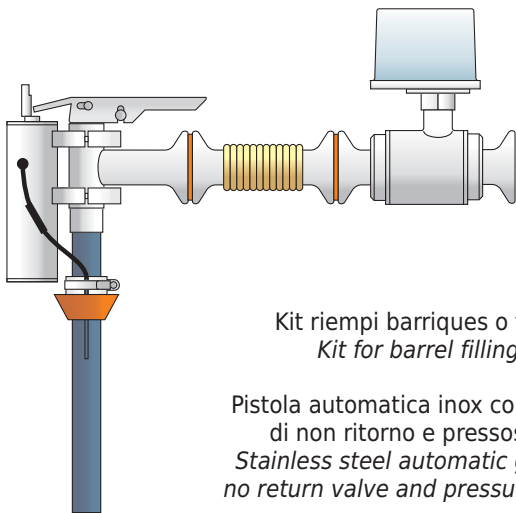
Accessori Accessories



By-pass con valvola a sfera per i modelli: Mini, Major, Maxi.
Ball bypass valve for pump types: Mini, Major, Maxi.

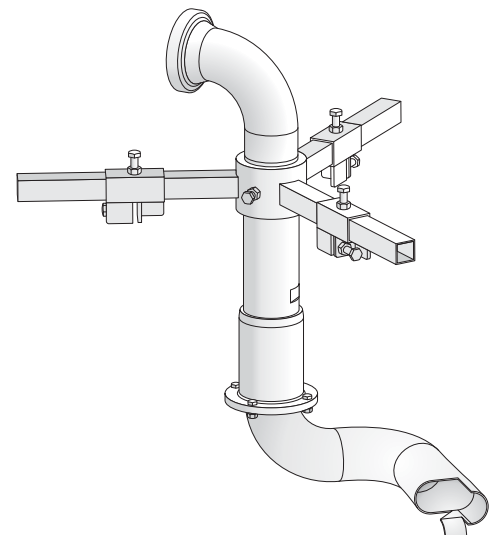


By-pass con valvola a molla per i modelli: Midex e Minor.
Spring bypass valve for pump types: Midex and Minor.



Kit riempi barriques o fusti.
Kit for barrel filling.

Pistola automatica inox con valvola di non ritorno e pressostato.
Stainless steel automatic gun with no return valve and pressure switch.



Irroratore centrifugo serie IRR LIVERANI:
- sistema di fissaggio standard per chiusino da 400 mm
- a richiesta sistema di fissaggio per chiusini di dimensioni superiori

Centrifugal sprinkler LIVERANI IRR type:
- standard fastening system for 400 mm manways
- on request fastening system for larger manways.

Il kit può essere utilizzato solo con quadro elettrico del tipo con derivazione supplementare 24V NC.
In caso di pompa con inverter quest'ultimo deve essere dotato di derivazione supplementare NC.
The kit must be used only with a control panel with a supplementary 24V NC shunt trip.
In case of pump driven by frequency converter, the last must be fitted with a supplementary NC trip.



Carenatura inox per elettropompe.
Inox cover for electric pumps.



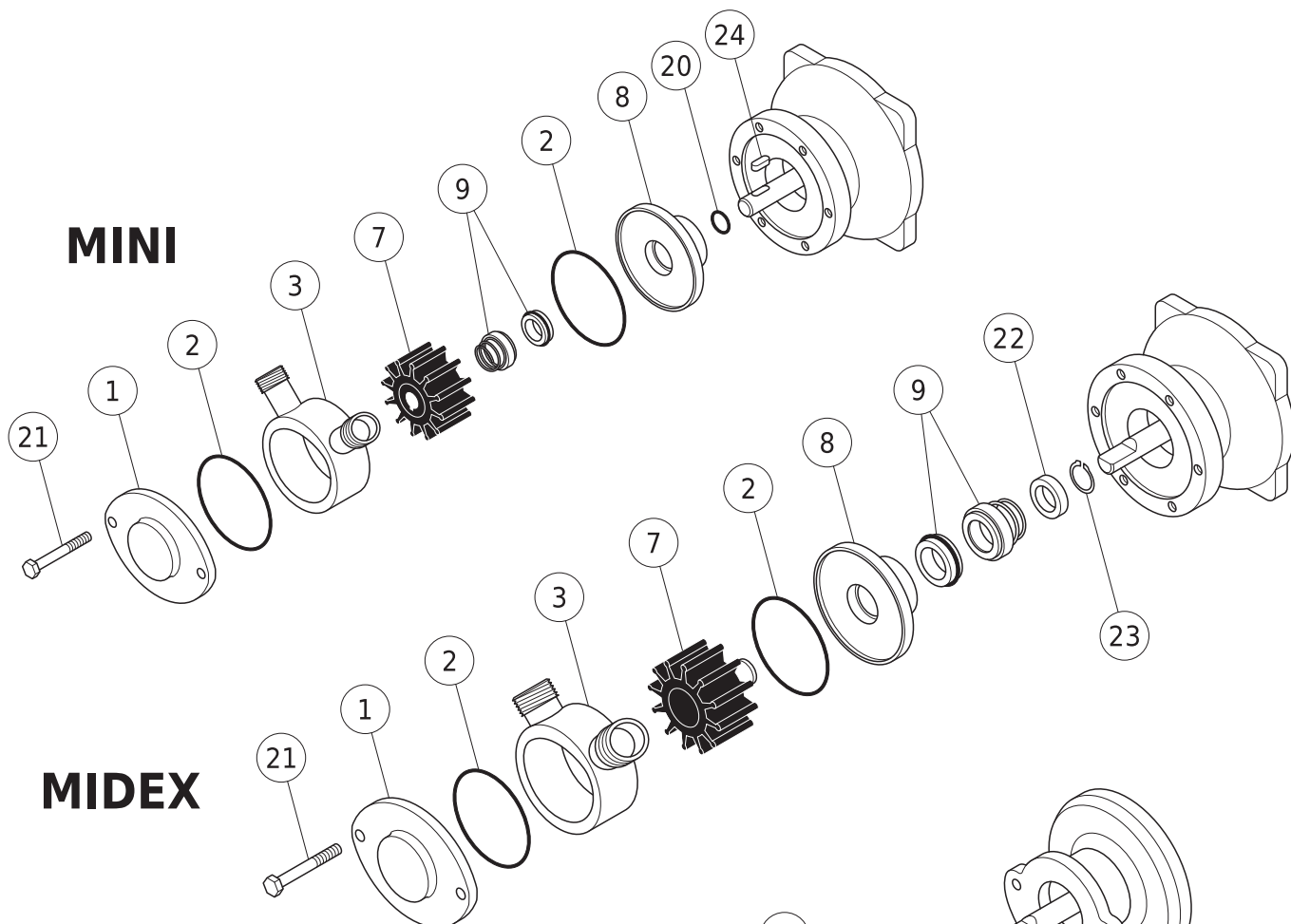
A richiesta l'assemblaggio può essere effettuato con:
- Carrello inox
- Con ruote in Poliammide bianche
- Impianto elettrico con invertitore standard montato sul manico
- Uscite sanitarie (DIN, SMS, TRICLAMP, BSM/RJT)

On request equipped with:
- Stainless steel trolley
- With Polyamide white wheels
- Standard control panel with reverser switch
- Sanitary inlet/outlet (DIN, SMS, TRICLAMP, BSM/RJT)

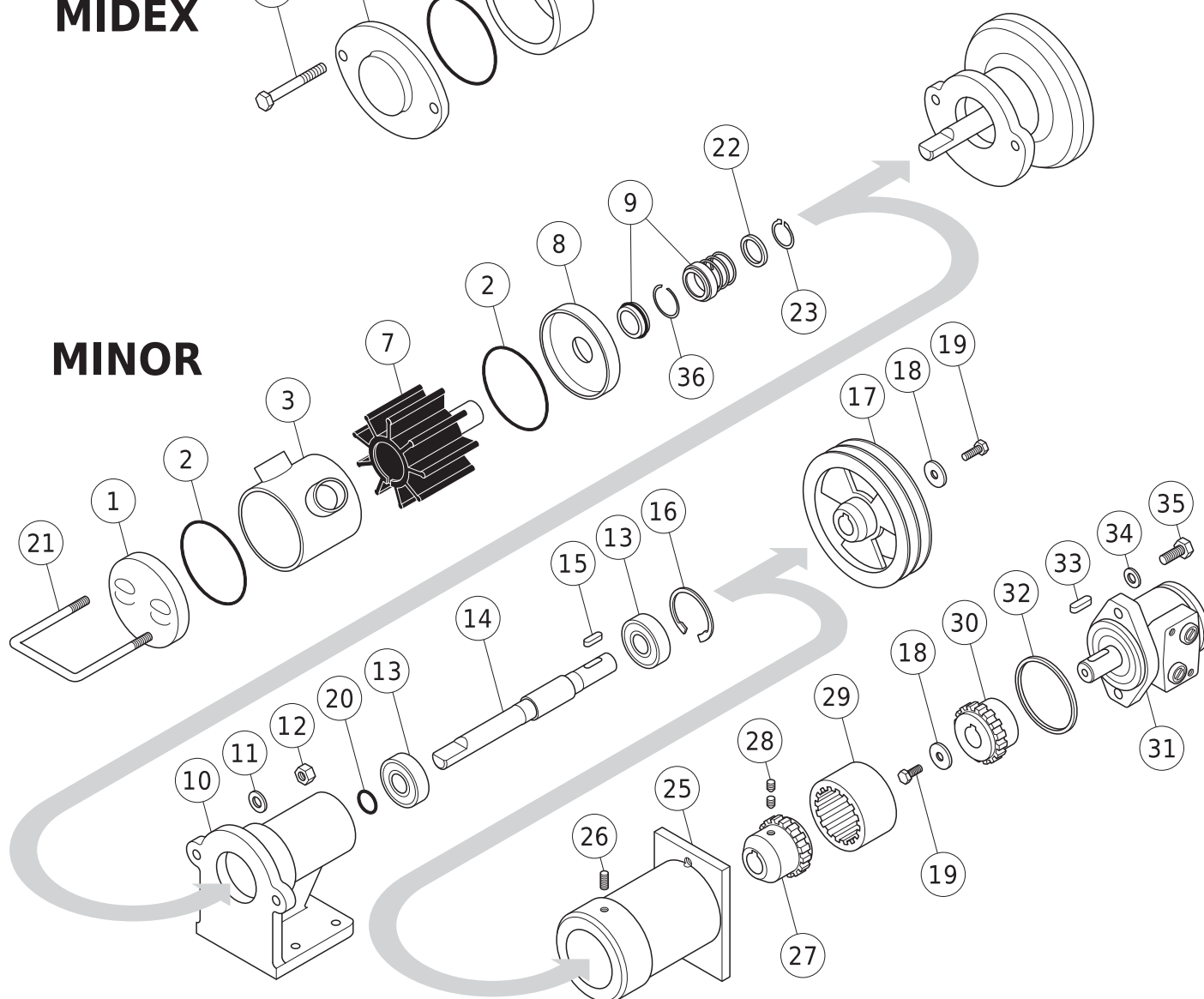
Componenti Spare parts

Pos.	Descrizione Description	Materiale Material	MINI	MIDEX	MINOR	MAJOR	MAXI
1	Culatta anteriore / Front cover	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
2	Anello OR culatta / O ring cover	Gomma NBR / Rubber (NBR)	●	●	●	●	●
3	Corpo pompa / Casing	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
7	Girante / Impeller	Gomma Naturale (NR) / Natural Rubber (NR)	●	●	●	●	●
		Neoprene (CR) / Neoprene Rubber (CR)	●	●	●	●	●
		Nitrile (NBR) / Nitrile (NBR)	●	●	●	●	●
		EPDM / EPDM	●	●	●	●	●
		Silicone (VMQ) / Silicon (VMQ)			●	●	●
8	Culatta posteriore / Rear cover	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
9	Tenuta meccanica / Mechanical gasket	Inox-Grafite-NBR / Stainless Steel-Graphite-NBR	●	●	●	●	●
		Carburo di Tungsteno-NBR / Tungsten Carbide-NBR	●	●	●	●	●
		Carburo di Tungsteno-Viton / Tungsten Carbide-Viton	●	●	●	●	●
10	Supporto tipo S/P / Support S/P type	Alluminio / Aluminium			●	●	●
	Supporto tipo MID / Support MID type	Alluminio / Aluminium			●	●	●
11	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
12	Dado / Nut	Ottone cromato / Chromate brass			●	●	●
13	Cuscinetto / Ball bearing	Commerciale / Commercial			●	●	●
14	Albero / Shaft	Acciaio Inox AISI 420 / Stainless Steel AISI 420			●	●	●
15	Chiavetta / Flat key	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
16	Anello Seeger / Seeger ring	Acciaio / Steel			●	●	●
17	Puleggia / Pulley	Alluminio / Aluminium			●	●	●
18	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
19	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
20	Anello protezione albero / Guard ring	Gomma NBR / Rubber (NBR)	●		●	●	
21	Cavallotto / U-Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304	●	●			
22	Cavallotto / U-Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304					●
	Anello distanziale / Spacing ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304		●	●	●	
23	Anello Seeger / Seeger ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304		●	●	●	
	Cuscinetto / Ball bearing	Commerciale / Commercial					●
24	Chiavetta / Flat key	Acciaio Inox AISI 304 / Stainless Steel AISI 304	●				
25	Flangia tipo MID / MID flange	Alluminio / Aluminium			●	●	●
26	Vite / Bolt	Acciaio / Steel			●	●	●
27	Giunto pompa / Pump coupling	Acciaio / Steel			●	●	●
28	Vite / Bolt	Acciaio / Steel			●	●	●
29	Manicotto di collegamento / Box coupling	Nylon / Nylon			●	●	●
30	Giunto motore / Motor coupling	Acciaio / Steel			●	●	●
31	Motore orbitale / Orbital motor	Commerciale / Commercial			●	●	●
32	Anello di centraggio / Center ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
33	Chiavetta / Flat key	Acciaio / Steel			●	●	●
34	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
35	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
36	Anello Seeger SB 50 int. / Seeger ring SB 50 int.	Acciaio / Steel			●		

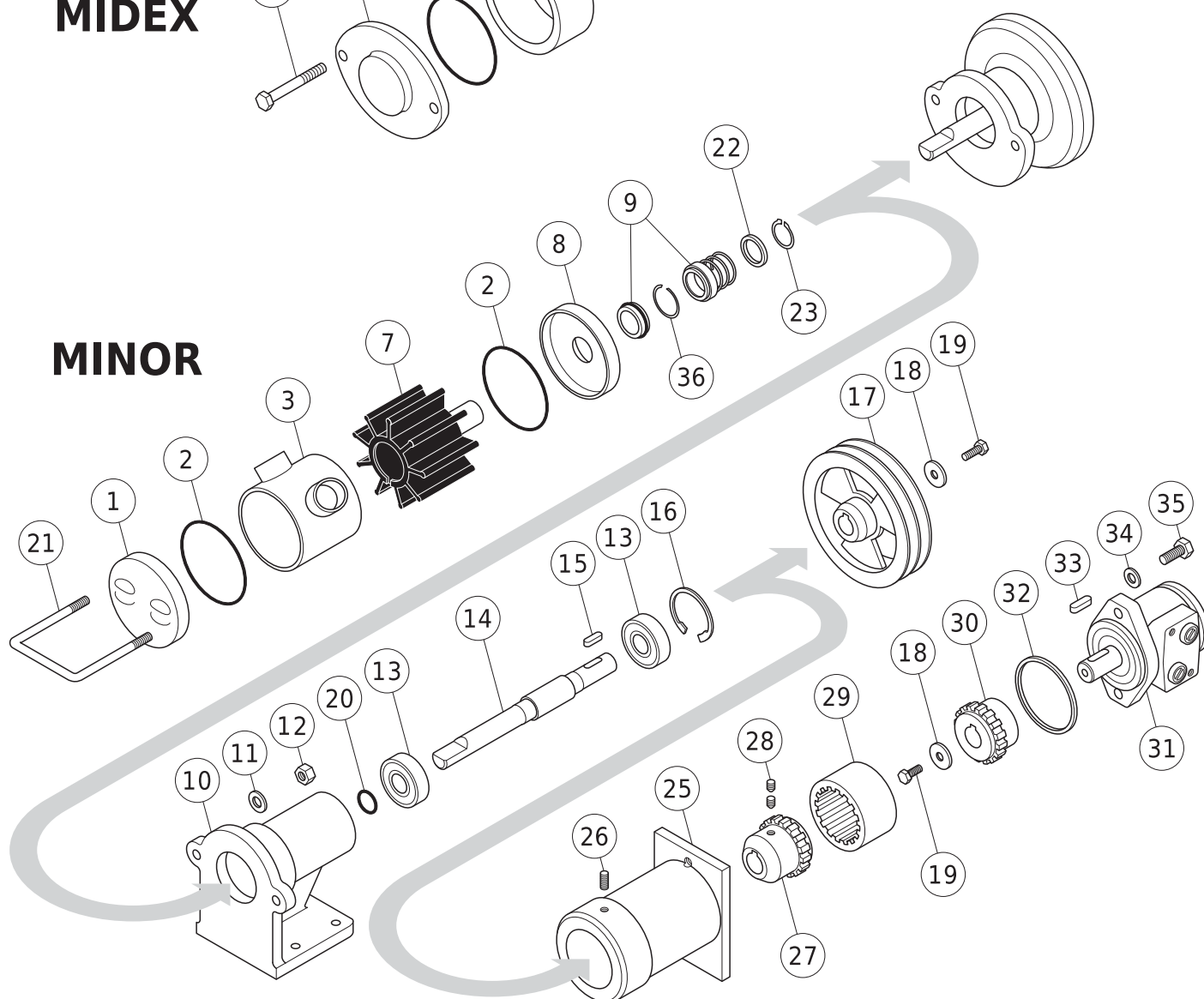
MINI



MIDEX



MINOR



MAJOR

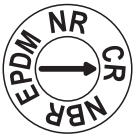
Exploded view diagram of a motor assembly with 35 numbered parts. The diagram shows the motor housing, fan, pulley, and various internal components like gears and bearings. A large grey arrow indicates the assembly path from the motor housing to the pulley and then to the gear assembly.

MAXI

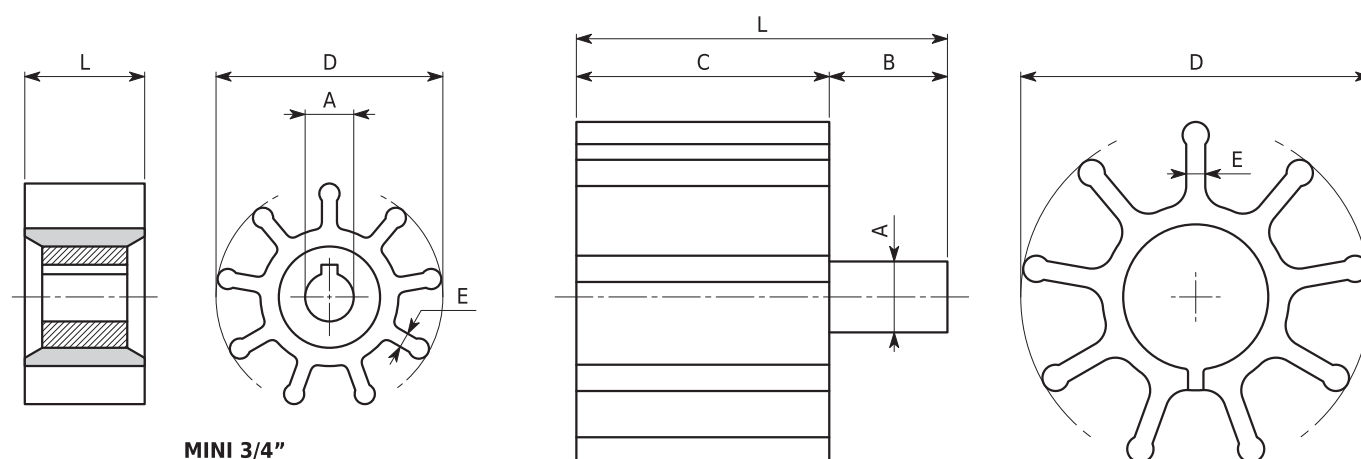
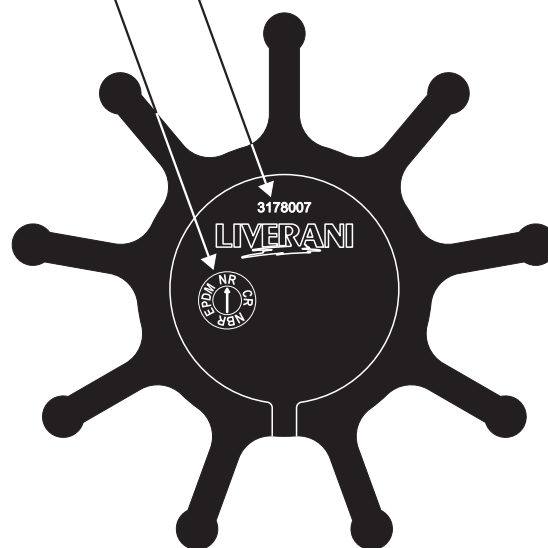
This exploded view diagram illustrates the assembly of the MAXI motor. The components are numbered 1 through 35. The assembly sequence is indicated by a large grey arrow pointing from left to right. The components include:

- 1: Front plate with mounting holes.
- 2: O-ring.
- 3: Motor housing.
- 7: Cooling fan.
- 8: Rear plate with mounting holes.
- 9: Spring.
- 10: Mounting bracket.
- 11: Screw.
- 12: Washer.
- 13: Seal.
- 14: Shaft.
- 15: Washer.
- 16: Nut.
- 17: Pulley.
- 18: Washer.
- 19: Screw.
- 20: Mounting bracket.
- 21: Screw.
- 22: Washer.
- 23: Nut.
- 24: Seal.
- 25: Mounting bracket.
- 26: Screw.
- 27: Gear.
- 28: Washer.
- 29: Gear.
- 30: Washer.
- 31: Motor housing.
- 32: Seal.
- 33: Washer.
- 34: Screw.
- 35: Mounting bracket.

Identificazione e dimensione della girante *Identification and impeller dimensions*

Riferimento materiale girante <i>Impeller's material reference</i>		
		NBR Nitrile <i>Nitrile</i>
		CR Neoprene <i>Neoprene rubber</i>
		EPDM EPDM <i>EPDM</i>
		NR Gomma naturale <i>Natural rubber</i>
		VMQ Silicone <i>Silicon</i>

Riferimento pompa <i>Pump reference</i>	
MINI 3/4"	n.d. / n.a.
MIDEX 1"1/4	3173007
MINOR 40	3174007
MAJOR 60	3176007
MAXI 80	3178007



MINI 3/4"

MIDEX 1"1/4 - MINOR 40 - MAJOR 60 - MAXI 80

Tipo <i>Type</i>	A	B	C	D	E	L	Nr. pale <i>Nr. blades</i>
MINI 3/4"	Ø 12	-	29.6	Ø 56	4	29.6	8
MIDEX 1"1/4	Ø 24.8	35	52	Ø 66.5	5	87	8
MINOR 40	Ø 24.8	35	87	Ø 98	5.5	122	9
MAJOR 60	Ø 30	57	107	Ø 146	7	164	9
MAXI 80	Ø 30	44	144	Ø 196	10	188	9