



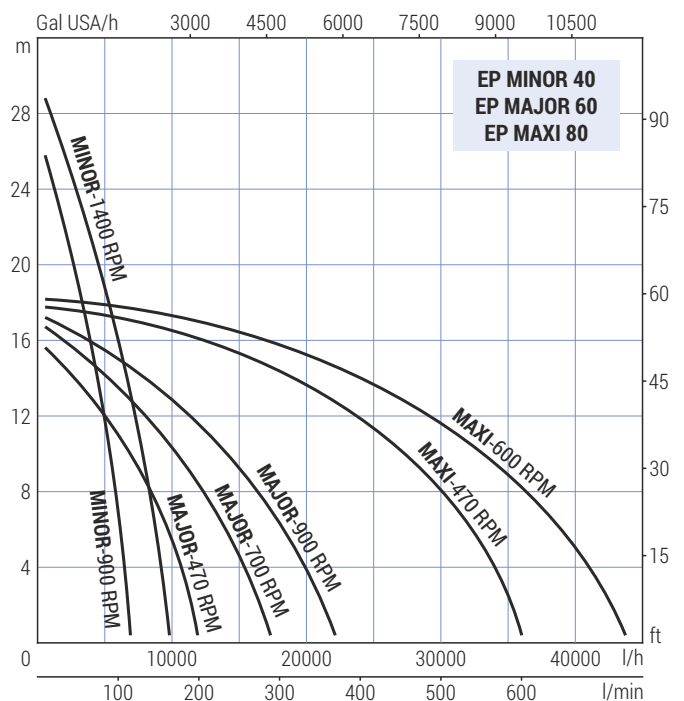
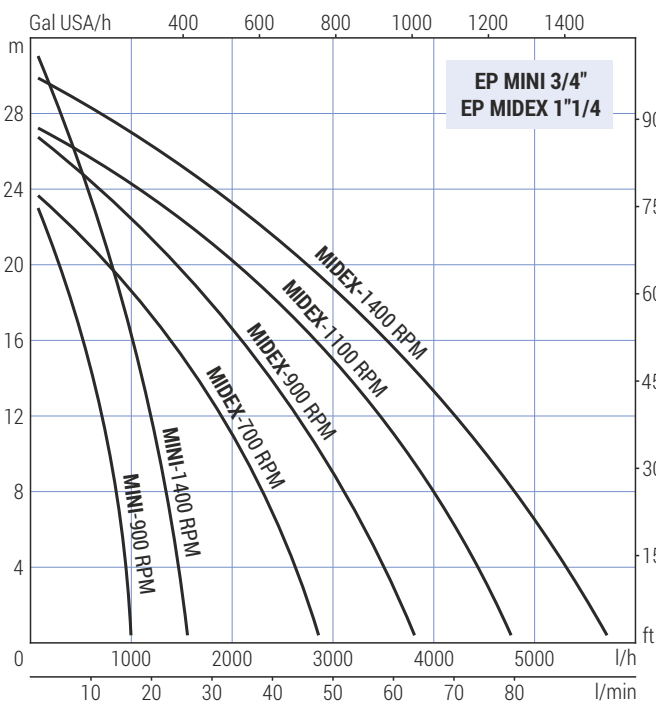
EP MINI 3/4"
EP MIDEX 1"1/4



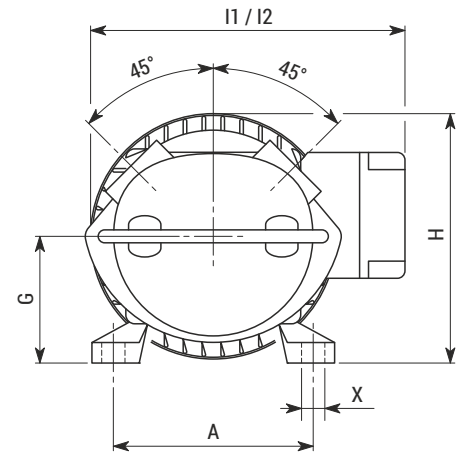
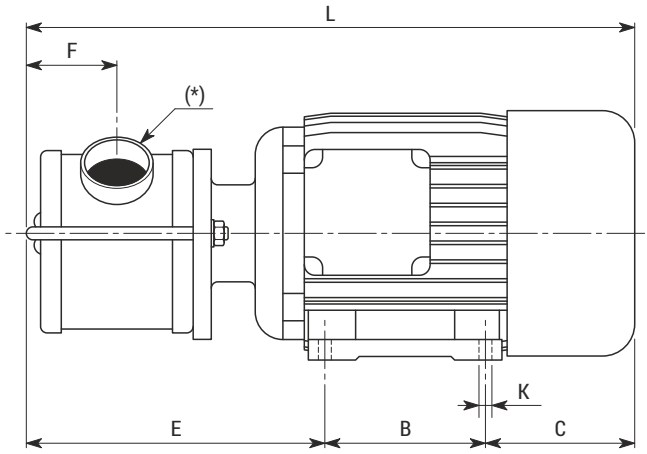
EP MINOR 40
EP MAJOR 60
EP MAXI 80

Tipo Type	Motore * Motor *	kW	Velocità Speed	Giri/min RPM	H = Prevalenza (metri) / Head (meters)										Q = Portata (litri/ora) / Capacity (liters/hour)	
					0	4	8	12	16	18	24	27	30	32		
EP MINI 3/4"	MF - TF	0.37	1	900	1000	900	840	720	540	450	0					
	MF - TF	0.56	1	1400	1620	1440	1320	1140	1020	900	600	400	180	0		
	CC 12V	0.3/30A	1	1400	1620	1440	1320	1140	1020	900	600	400	180	0		
	CC 24V	0.3/16A	1	1400	1620	1440	1320	1140	1020	900	600	400	180	0		
EP MIDEX 1"1/4	MF - TF	0.56	1	900	3840	3480	3180	2760	2160	1800	720	0				
	MF - TF	0.75	1	1400	5760	5160	4800	4320	3600	3180	1920	1200	0			
	TF	0.56	2	1400	5760	5160	4800	4320	3600	3180	1920	1200	0			
		0.37		700	2880	2600	2300	1900	1400	1100	0					
	CC 12V	0.5/55A	1	1100	4800	4400	3980	3450	2800	2400	1100	0				
	CC 24V	0.5/28A	1	1100	4800	4400	3980	3450	2800	2400	1100	0				
EP MINOR 40	MF - TF	1.5	1	900	6900	6200	5760	5040	4200	3660	1800	0				
	TF	1.5	1	1400	10000	9000	8000	6900	5500	4900	2600	1700	0			
	TF	2.1	2	1400	10000	9000	8000	6900	5500	4900	2600	1700	0			
	1.2		900	6900	6200	5760	5040	4200	3660	1800	0					
EP MAJOR 60	TF	1.25	1	470	12000	10500	8700	5100	0							
	TF	1.5	1	700	18000	15000	12000	8400	2500	0						
	TF	1.87	1	900	22500	19560	15000	11220	3000	0						
EP MAXI 80	TF	3.3	1	470	36000	34200	30000	24000	12000	0						
	TF	3.5	1	600	43800	41400	36000	30000	16000	0						

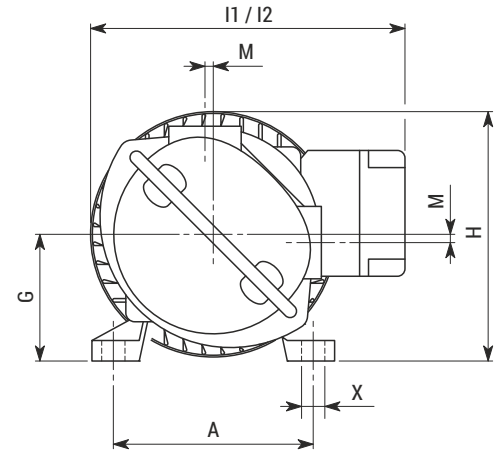
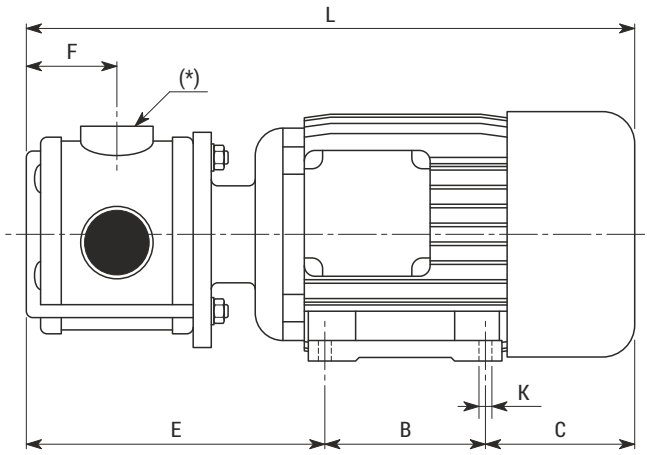
* MF = monofase / single-phase - TF = trifase / three-phase - CC = corrente continua / direct current



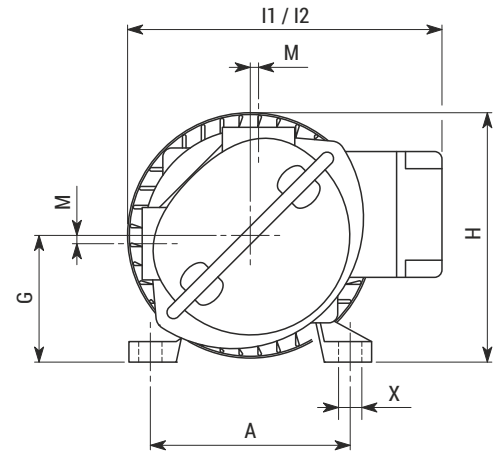
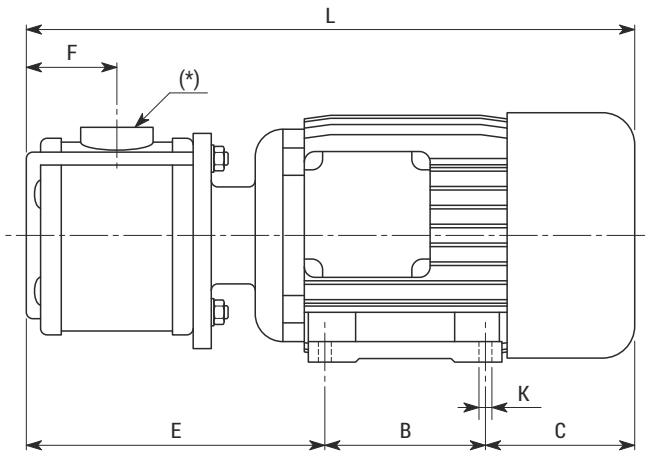
Posizione
Position
V



Posizione
Position
90D



Posizione
Position
90S



Tipo Type	Motore Motor	Peso Weight	Velocità Speed	Dimensioni (mm) / Dimensions (mm)											
				A	B	E	F	G	H	I1 **	I2 **	L	M	K	X
EP MINI 3/4"	M71	9±10 kg	1	112	90	106	26	71	140	192	210	276	0	7	12
EP MIDEX 1"1/4	M80	15 kg	1	125	100	148	38	80	159	200	227	338	7	8	16
	M80	15 kg	2	125	100	148	38	80	159	-	227	338	7	8	16
EP MINOR 40	M90	20 kg	1	140	125	198	60	90	180	210	240	420	4.5	10	16
	M100	27 kg	2	160	140	210	60	100	198	-	260	455	4.5	12	21
EP MAJOR 60	M100	31 kg	1	160	140	253	70	100	198	245	263	490	6.5	12	21
	M112	38 kg	1	190	140	259	70	112	225	275	-	514	6.5	12	22
EP MAXI 80	M132	68 kg	1	216	178	312	90	132	261	320	-	630	13	12	22

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

** I1 = motore con morsetteria / motor with terminal board connection

** I2 = motore con interruttore/invertitore / motor with on-off/rotative reverse switch



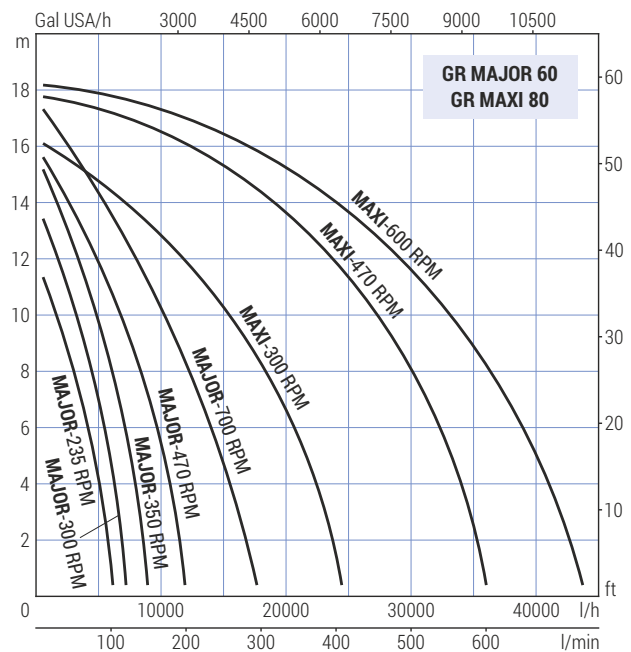
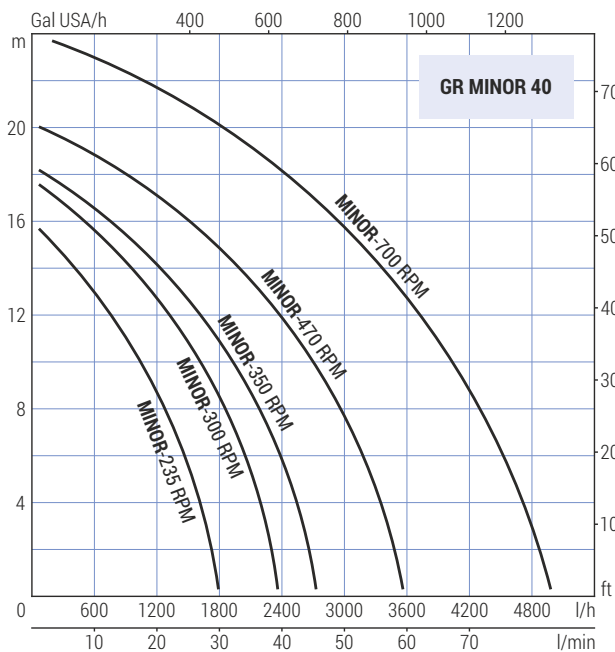
Gruppo a puleggia su base
Belt driven pump on base



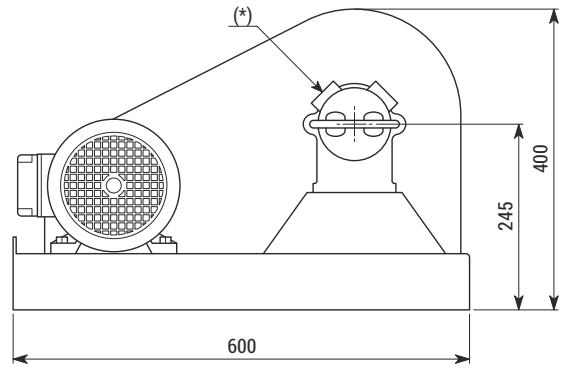
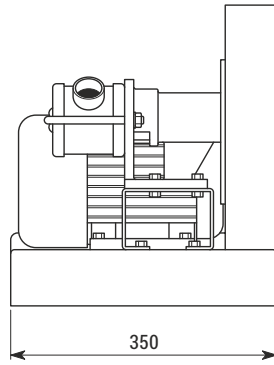
Gruppo a puleggia su carrello
Belt driven pump on trolley

Tipo Type	Motore * Motor *	kW	Velocità Speed	Giri/min RPM	H = Prevalenza (metri) / Head (meters)										Q = Portata (litri/ora) / Capacity (liters/hour)
					0	4	8	10	12	14	16	18	20	24	
GR MINOR 40	MF - TF	1.5	1	300	2400	2150	1800	1600	1400	960	700	0			
	MF - TF	1.5	1	470	3600	3300	2900	2700	2400	1990	1600	1000	0		
	MF - TF	1.5	1	700	5000	4700	4300	4000	3700	3360	3000	2520	1800	0	
	TF	1.8	2	470	3600	3300	2900	2700	2400	1990	1600	1000	0		
	TF	1.0	2	235	1800	1600	1300	1000	750	415	0				
GR MAJOR 60	TF	2.2	2	700	5000	4700	4300	4000	3700	3360	3000	2520	1800	0	
	1.5	2	350	2750	2500	2100	1900	1600	1200	800	0				
	MF - TF	1.5	1	300	7200	6270	6090	3230	1760	0					
	MF - TF	1.5	1	470	12000	10500	8700	6750	5100	2630	0				
	TF	1.86	1	700	18000	15000	12000	10400	8400	5470	2500	0			
GR MAXI 80	TF	1.8	2	470	12000	10500	8700	6750	5100	2630	0				
	1.0	2	235	6300	5100	3250	2000	0							
	TF	2.2	2	700	18000	15000	12000	10400	8400	5470	2500	0			
	1.5	2	350	9000	7800	6000	4900	3700	1680	0					
	TF	4	1	470	36000	34200	30000	27000	24000	19000	12000	0			
GR MAXI 80	TF	4	1	600	43800	41400	36000	33000	30000	24000	16000	0			
	4.5	2	600	43800	41400	36000	33000	30000	24000	16000	0				
	3.3	2	300	24600	22200	18900	16000	12000	7140	0					

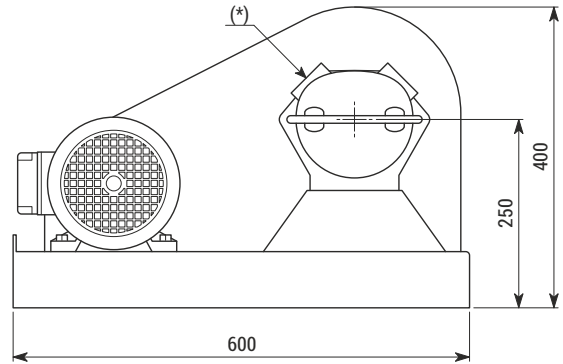
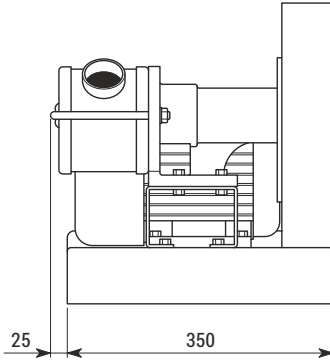
* MF = monofase / single-phase - TF = trifase / three-phase - CC = corrente continua / direct current



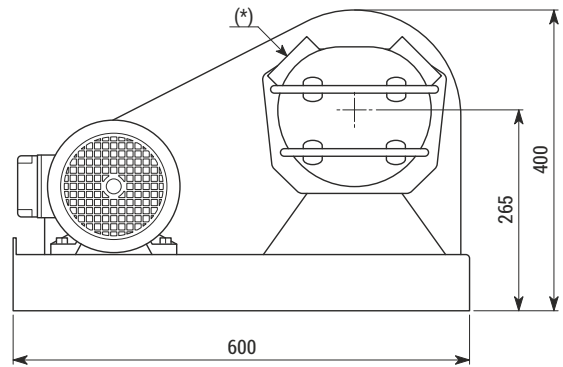
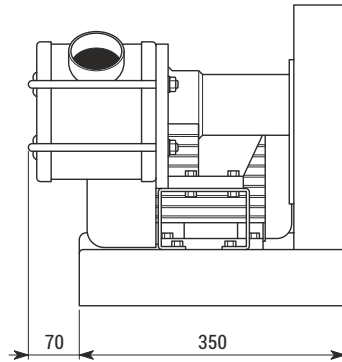
GR MINOR 40
 su base-on base
 Peso-Weight 36÷45 kg



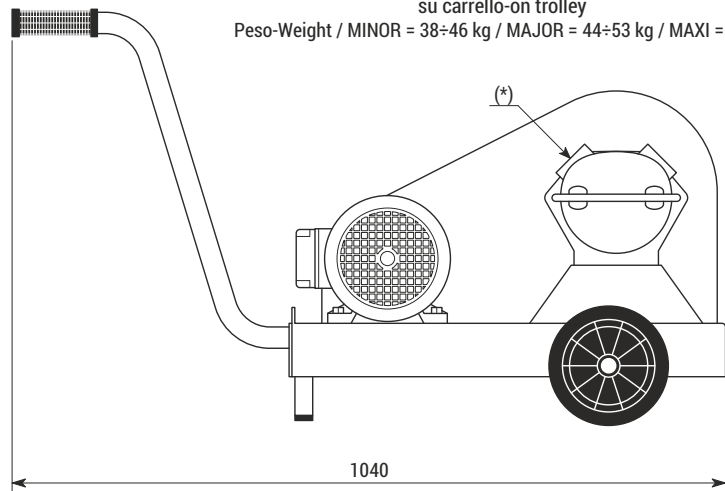
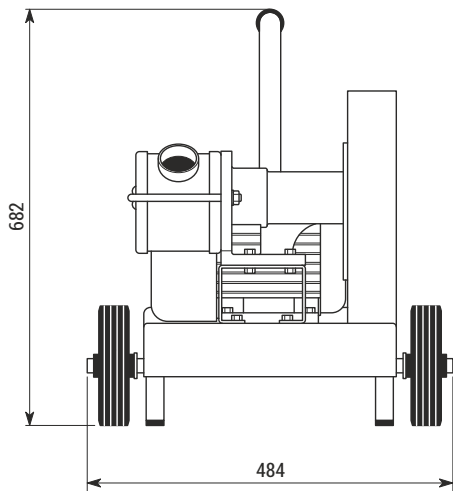
GR MAJOR 60
 su base-on base
 Peso-Weight 42÷51 kg



GR MAXI 80
 su base-on base
 Peso-Weight 65 kg



GR MINOR 40 - MAJOR 60 - MAXI 80
 su carrello-on trolley
 Peso-Weight / MINOR = 38÷46 kg / MAJOR = 44÷53 kg / MAXI = 67 kg



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

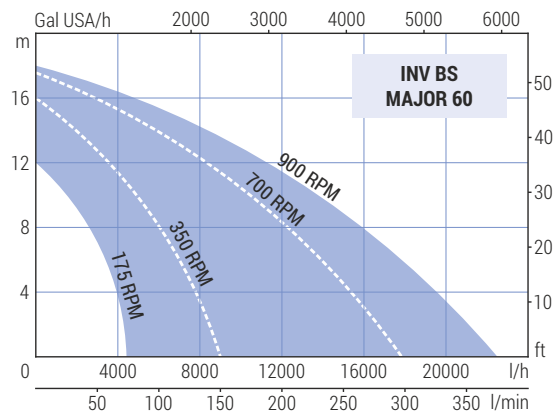
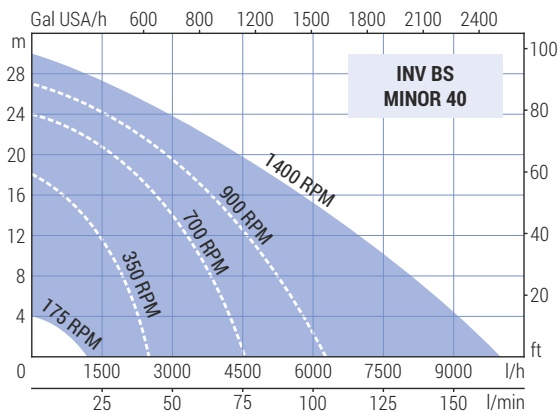
Serie
Type
INV BS

Pompe monoblocco con inverter con comandi bordo quadro
Mono-block pumps with frequency converter and controls on main panel

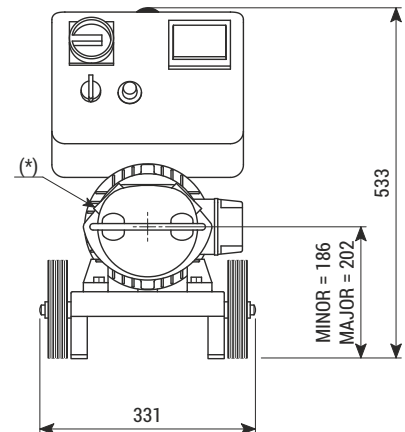
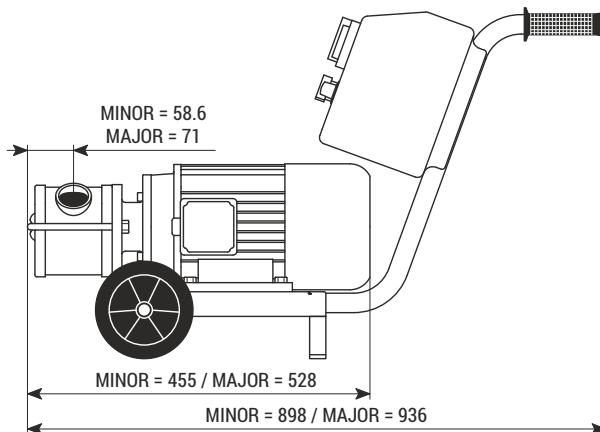


INV BS MINOR 40
INV BS MAJOR 60
motore servovenilato, inverter 4 kW
senza stop a secco, con carrello
servo fan motor, 4kW frequency converter
without dry running protection, on trolley

Tipo Type	Alimentazione Feeding	kW	Giri/min RPM	H = Prevalenza (metri) / Head (meters)										Q = Portata (litri/ora) Capacity (liters/hour)	
				0	4	8	12	16	18	20	24	27	30		
INV BS MINOR 40	Trifase Three-phase 400V / 50Hz	1.5	min 175	1320	0										
			350	2750	2500	2100	1600	800	0						
			700	5000	4700	4300	3700	3000	2520	1800	0				
			900	6900	6200	5760	5040	4200	3660	3200	1800	0			
			max 1400	10000	9000	8000	6900	5500	4900	4400	2600	1700	0		
INV BS MAJOR 60	Trifase Three-phase 400V / 50Hz	1.85	min 175	4320	3840	2800	0								
			350	9000	7800	6000	3700	0							
			700	18000	15000	12000	8400	2500	0						
			900	22500	19560	15000	11220	3000	0						
			max 900	22500	19560	15000	11220	3000	0						



INV BS MINOR 40
Peso-Weight 31.0 kg
INV BS MAJOR 60
Peso-Weight 43.5 kg



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

Serie
Type
MINIVERTER

Pompe monoblocco con inverter integrato
Mono-block pumps with integrated frequency converter



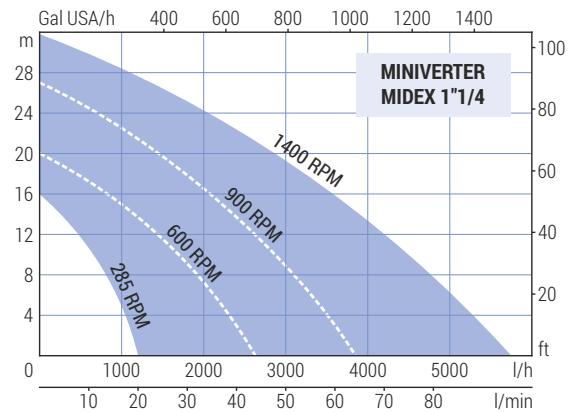
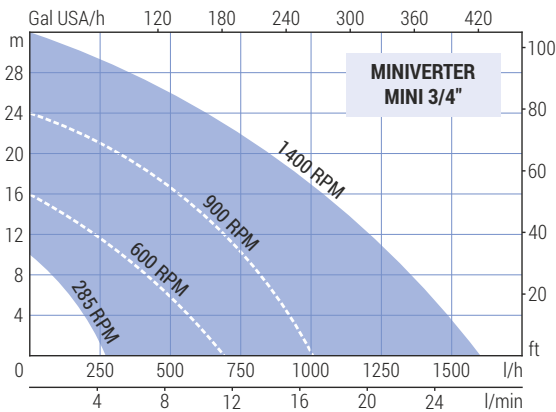
**MINIVERTER
MINI 3/4"**



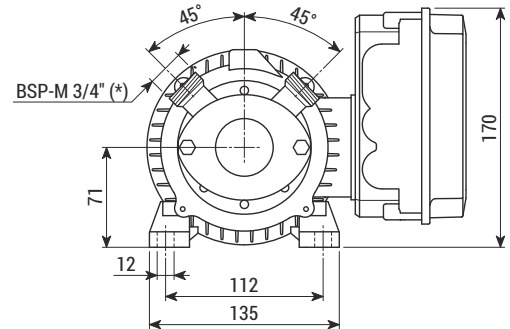
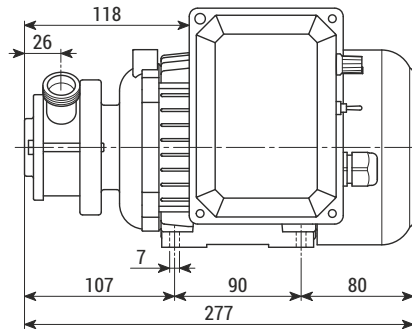
**MINIVERTER
MIDEX 1 1/4"**
motore servoventilato
servo fan motor



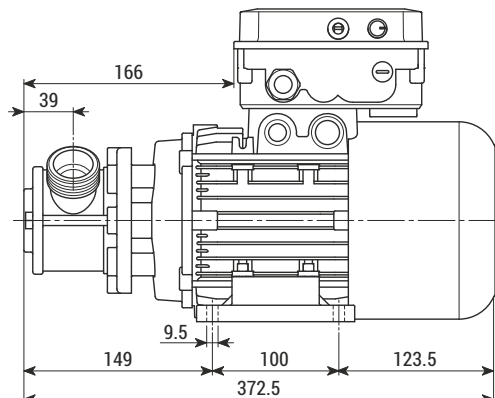
Tipo Type	Alimentazione Feeding	kW	Giri/min RPM	H = Prevalenza (metri) / Head (meters)										Portata (litri/ora) Q = Capacity (liters/hour)	
				0	4	8	10	12	16	20	24	27	32		
MINIVERTER MINI 3/4"	Monofase Single Phase 230V / 50Hz	0.56	min 285	270	195	75	0								
			600	700	560	390	300	150	0						
			900	1000	900	840	750	720	540	350	0				
			max 1400	1620	1440	1320	1230	1140	1020	800	600	400	0		
MINIVERTER MIDEX 1 1/4"	Monofase Single Phase 230V / 50Hz	0.75	min 285	1200	970	800	690	495	0						
			600	2600	2300	2000	1690	1400	800	0					
			900	3840	3480	3180	2990	2760	2160	1600	720	0			
			max 1400	5760	5160	4800	4580	4320	3600	2800	1920	1200	0		



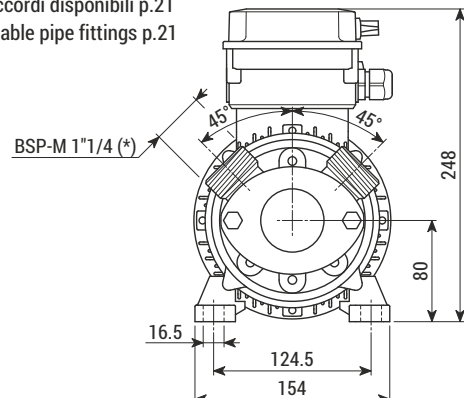
**MINIVERTER
MINI 3/4"**
Peso-Weight 10 kg



**MINIVERTER
MIDEX 1 1/4"**
Peso-Weight 16 kg



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

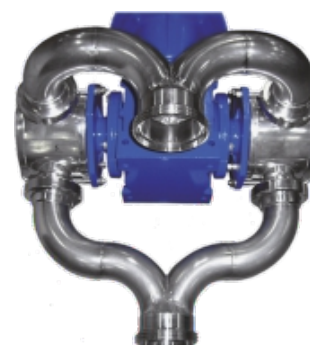




RID MINOR 40
RID MAJOR 60
RID MAXI 80



RID MAXI Double



RID MAXI Double 2Q

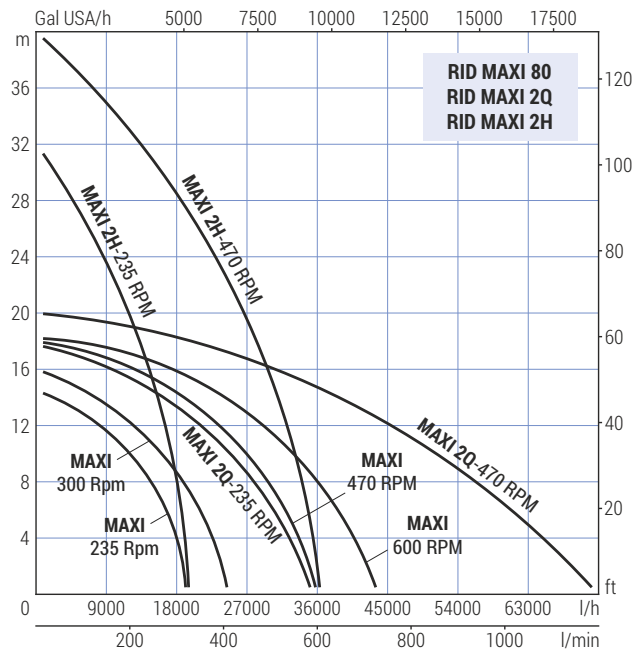
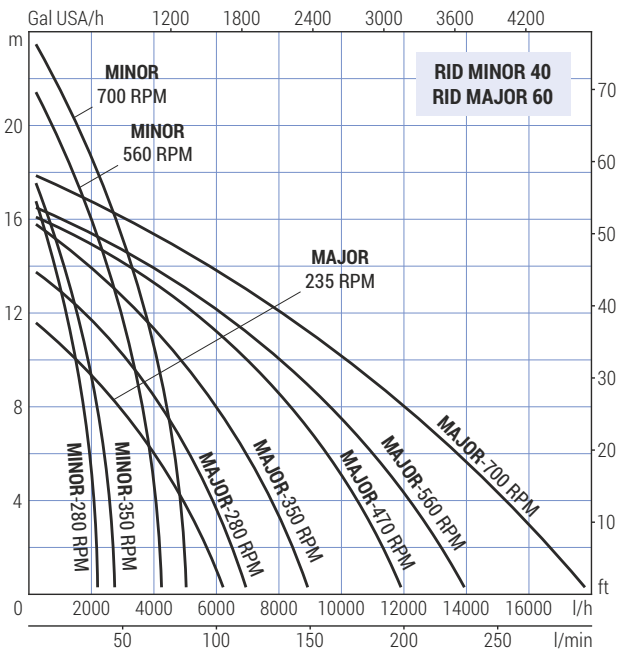


RID MAXI Double 2H

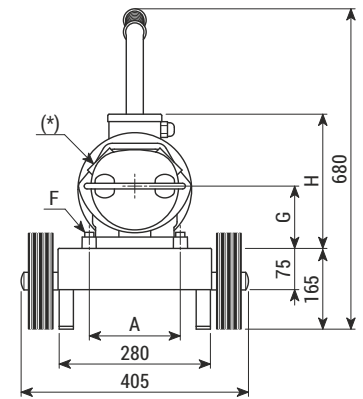
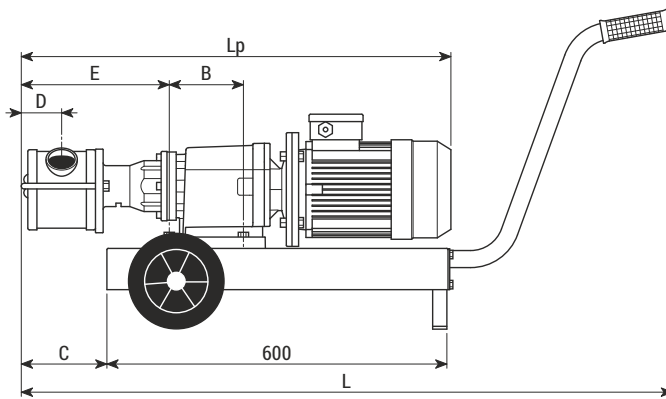
Tipo Type	Motore * Motor *	kW	Velocità Speed	Giri/min RPM	H = Prevalenza (metri) / Head (meters)												
					0	4	8	12	14	16	18	20	22	24	32	40	
RID MINOR 40	TF	1.5	1	280	2200	2000	1700	1200	830	500	0						
	TF	1.5	1	350	2750	2500	2100	1600	1100	800	0						
	TF	2.2	1	560	4250	4000	3600	2900	2500	2000	1400	750	0				
	TF	1.5	1	700	5000	4700	4300	3700	3300	3000	2520	1800	850	0			
	TF	2.2	2	560	4250	4000	3600	2900	2500	2000	1400	750	0				
	TF	1.5	2	280	2200	2000	1700	1200	830	500	0						
RID MAJOR 60	TF	2.2	2	700	5000	4700	4300	3700	3300	3000	2520	1800	850	0			
	TF	1.5	2	350	2750	2500	2100	1600	1100	800	0						
	TF	2.2	1	235	6300	5100	3250	0									
	TF	2.2	1	280	7000	5800	4100	1750	0								
	TF	2.2	1	560	14000	12000	9500	6000	4000	0							
	TF	2.2	1	350	9000	7800	6000	3700	2000	0							
	TF	2.2	1	470	12000	10500	8700	5100	3600	0							
	TF	2.2	1	700	18000	15000	12000	8400	5700	2500	0						
	TF	1.5	2	470	12000	10500	8700	5100	3600	0							
RID MAXI 80	TF	1.5	2	235	6300	5100	3250	0									
	TF	2.2	2	560	14000	12000	9500	6000	4000	0							
	TF	1.5	2	280	7000	5800	4100	1750	0								
	TF	2.2	2	700	18000	15000	12000	8400	5700	2500	0						
	TF	1.5	2	350	9000	7800	6000	3700	2000	0							
	TF	4	1	235	19200	18000	14700	9600	0								
RID MAXI Double 2Q	TF	4	1	300	24600	22200	18900	12000	7600	0							
	TF	4	1	470	36000	34200	30000	24000	19000	12000	0						
	TF	4	1	600	43800	41400	36000	30000	23500	16000	0						
	TF	4.5	2	470	36000	34200	30000	24000	19000	12000	0						
	TF	3.3	2	235	19200	18000	14700	9600	0								
	TF	4.5	2	600	43800	41400	36000	30000	23500	16000	0						
RID MAXI Double 2H	TF	3.3	2	300	24600	22200	18900	12000	7600	0							
	TF	5.5	1	470	72000	65000	56500	45000	38000	30000	20000	0					
	TF	3	2	235	36000	33000	27900	20500	16000	10000	0						
RID MAXI Double 2H	TF	5.5	1	470	36000	35000	34000	32000	30000	29700	28400	27000	24600	23600	14300	0	
	TF	3	2	235	19200	18500	18000	16200	15000	14300	13200	12000	10000	9000	0		

Q = Portata (litri/ora) / Capacity (liters/hour)

* TF = trifase / three-phase - CC = corrente continua / direct current

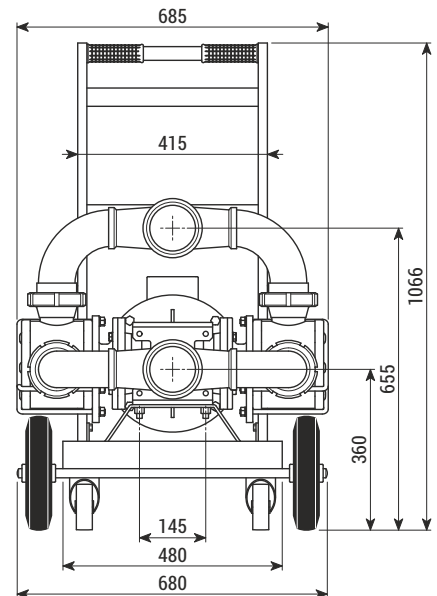
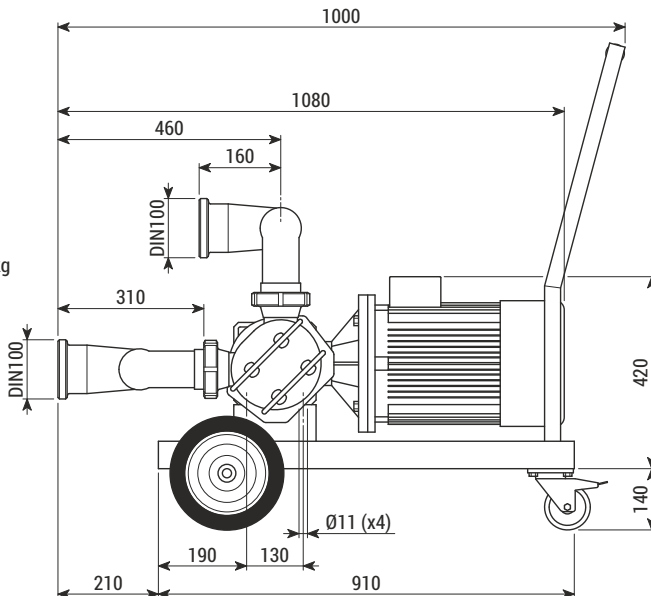


RID MINOR 40
RID MAJOR 60
RID MAXI 80



Tipo Type	Peso Weight	Dimensioni (mm) / Dimensions (mm)									
		A	B	C	D	E	F	G	H	L	Lp
RID MINOR 40	42 kg	130	107.5	64	58.4	194	Ø11	100	232.5	1101	652
RID MAJOR 60	44 kg	160	130	150.6	71	258	Ø11	105.6	236	1188	756
RID MAXI 80	65 kg	180	105	113	88	221	Ø14	130	304	1150	783

RID MAXI Double 2Q
RID MAXI Double 2H
Peso-Weight 185÷200 kg



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

Serie Type VA	Serie Type INV
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Pompe con variatore o inverter Pumps with mechanical speed variator or frequency converter



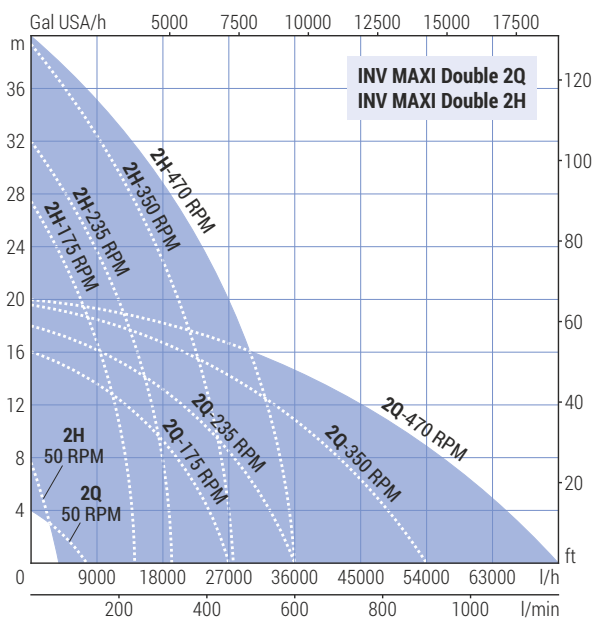
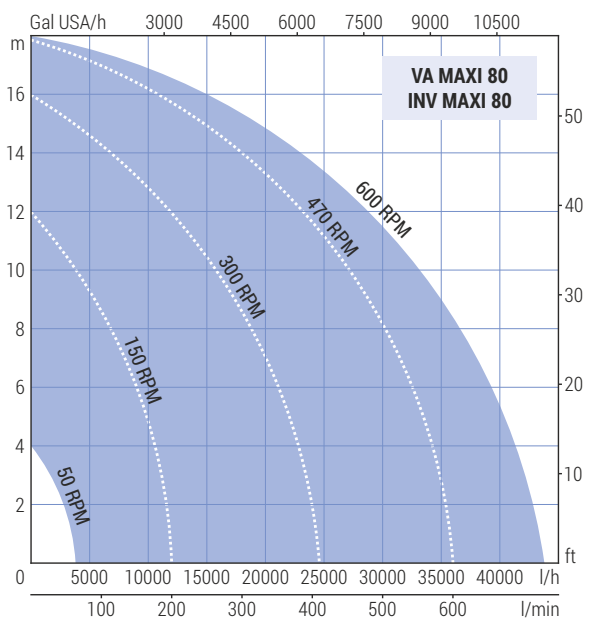
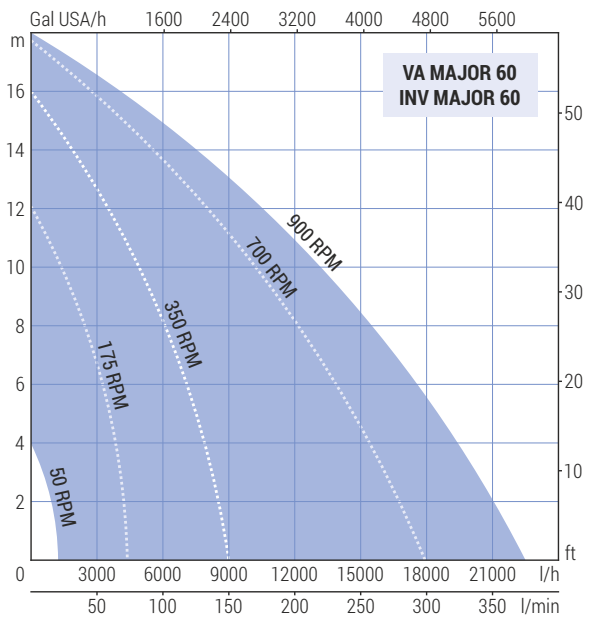
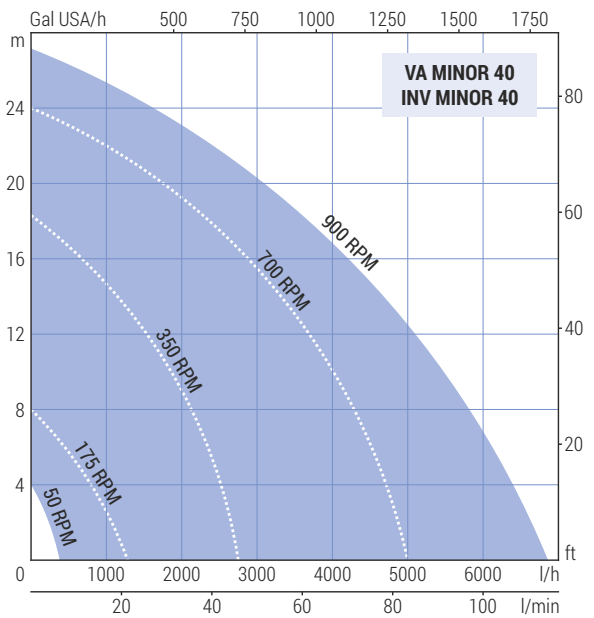
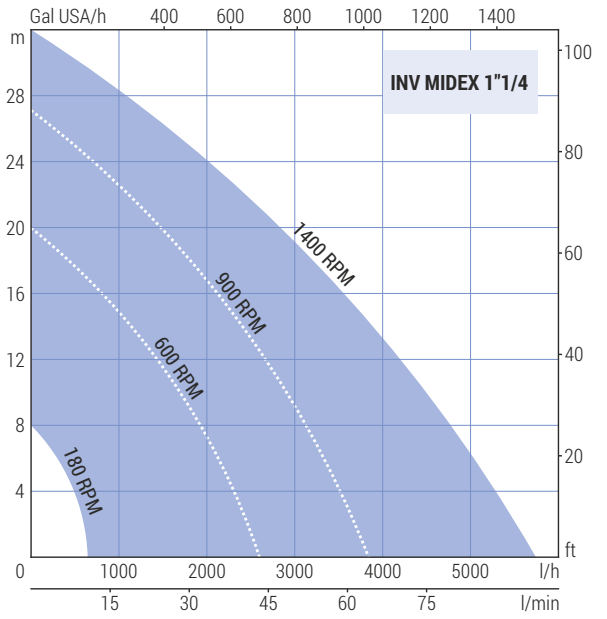
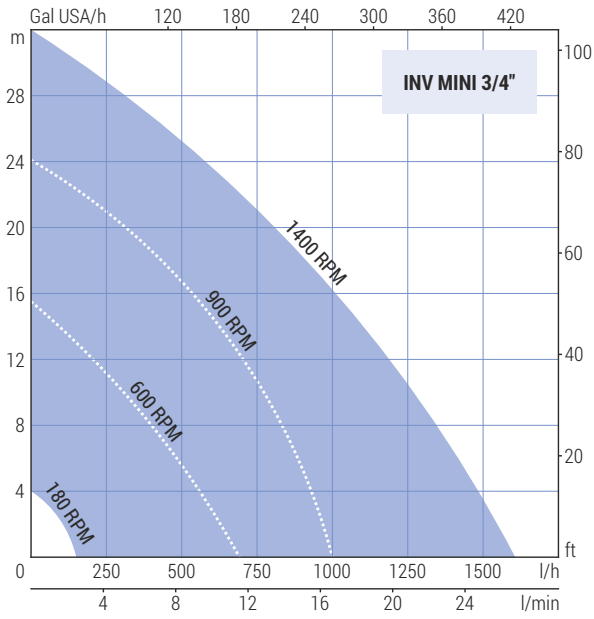
Pompe con variatore (VA)
Pumps with mech. speed variator (VA)

Pompe con inverter (INV)
Pumps with frequency converter (INV)

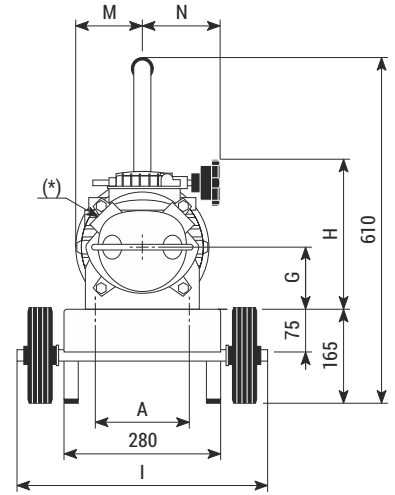
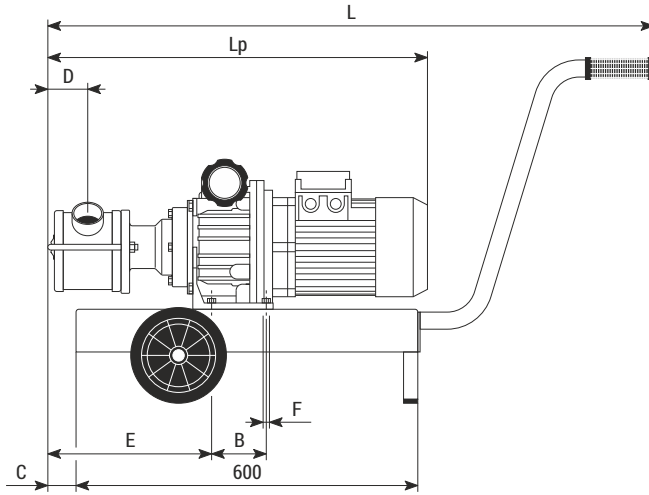
Tipo Type	Alimentazione * Feeding *		kW	Giri/min RPM	H = Prevalenza (metri) / Head (meters)															
					0	4	8	12	16	18	20	24	27	32	40					
VA MINOR 40	TF	230-400V 50Hz	1.5	min 175	1320	800	0	1600	800	0										
				350	2750	2500	2100	1600	800	0										
				700	5000	4700	4300	3700	3000	2520	1800	0								
				max 900	6900	6200	5760	5040	4200	3660	3200	1800	0							
VA MAJOR 60	TF	230-400V 50Hz	1.87	min 175	4320	3840	2800	0												
				350	9000	7800	6000	3700	0											
				700	18000	15000	12000	8400	2500	0										
				max 900	22500	19560	15000	11220	3000	0										
VA MAXI 80	TF	230-400V 50Hz	4	min 150	12000	10000	7500	0												
				300	24600	22200	18900	12000	0											
				470	36000	34200	30000	24000	12000	0										
				max 600	43800	41400	36000	30000	16000	0										
INV MINI 3/4"	MF 230V 50Hz	TF 400V 50Hz	0.56	min 180	150	0														
				600	700	560	390	150	0											
	900	1000		900	840	720	540	450	350	0										
	max 1400	1620		1440	1320	1140	1020	900	800	600	400	0								
INV MIDEX 1"1/4	MF 230V 50Hz	TF 400V 50Hz	0.75	min 180	600	480	0													
				600	2600	2300	2000	1400	800	400	0									
	900	3840		3480	3180	2760	2160	1800	1600	720	0									
	max 1400	5760		5160	4800	4320	3600	3180	2800	1920	1200	0								
INV MINOR 40	MF 230V 50Hz	TF 400V 50Hz	1.87	min 50	380	0														
				175	1320	800	0													
				350	2750	2500	2100	1600	800	0										
				max 900	6900	6200	5760	5040	4200	3660	3200	1800	0							
INV MAJOR 60	MF 230V 50Hz	TF 400V 50Hz	2.2	min 50	1230	0														
				175	4320	3840	2800	0												
				350	9000	7800	6000	3700	0											
				max 900	22500	19560	15000	11220	3000	0										
INV MAXI 80	TF 400V 50Hz		4	min 50	3800	0														
				150	12000	10000	7500	0												
				300	24600	22200	18900	12000	0											
				max 600	43800	41400	36000	30000	16000	0										
INV MAXI Double 2Q	TF 400V 50Hz		5.5	min 50	7600	0														
				175	27000	24000	20000	13000	0											
				235	36000	33000	27500	20500	10000	0										
				max 470	72000	65000	56000	45000	30000	20000	14000	0								
INV MAXI Double 2H	TF 400V 50Hz		5.5	min 50	3800	2000	0													
				175	14100	13500	12600	11400	9700	8600	7400	4500	0							
				235	19200	18500	17500	16200	14300	13200	12000	9000	5900	0						
				max 470	36000	35000	33600	32000	29700	28400	27000	23600	20600	14300	0					

Q = Portata (litri/ora) / Capacity (liters/hour)

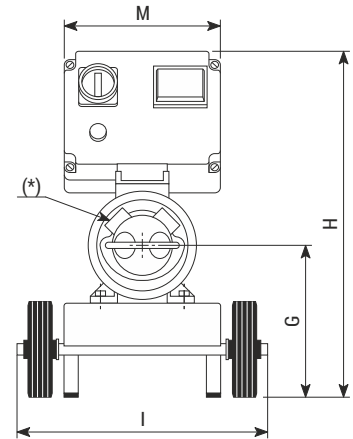
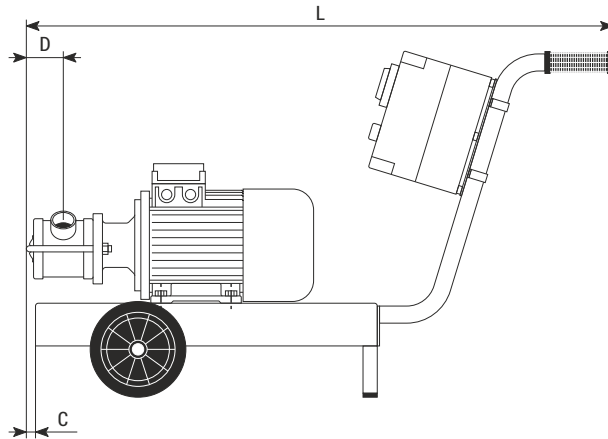
* MF = monofase / single-phase - TF = trifase / three-phase



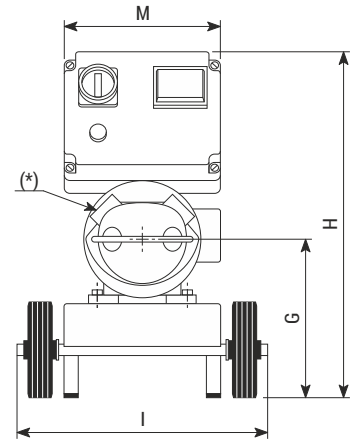
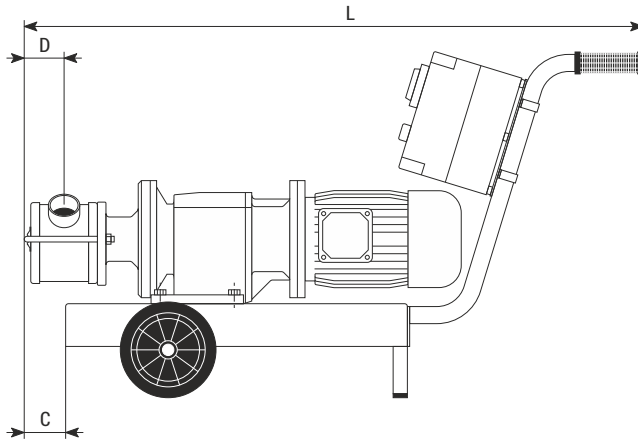
VA MINOR 40
VA MAJOR 60
VA MAXI 80



INV MINI 3/4"
INV MIDEX 1"1/4



INV MINOR 40
INV MAJOR 60
INV MAXI 80



Tipo Type	Peso Weight	Dimensioni (mm) / Dimensions (mm)												
		A	B	C	D	E	F	G	H	I	L	Lp	M	N
VA MINOR 40	63 kg	164	96	20	60	260	Ø11	109	264	405	1030	640	117	137
VA MAJOR 60	67 kg	164	96	55	70	295	Ø11	109	264	405	1065	675	117	137
VA MAXI 80	109 kg	200	120	115	90	305	M12	132	337	405	1125	770	136	172.5
INV MINI 3/4"	17 kg	-	-	-	26	-	-	175	550	331	790	-	285	-
INV MIDEX 1"1/4	23 kg	-	-	15	38	-	-	175	550	331	805	-	285	-
INV MINOR 40	45 kg	-	-	70	60	-	-	268	610	405	1050	-	285	-
INV MAJOR 60	55 kg	-	-	135	70	-	-	275	610	405	1145	-	285	-
INV MAXI 80	95 kg	-	-	160	90	-	-	295	610	405	1200	-	285	-
INV MAXI Double	185÷200 kg	Dimensioni p.11 / Dimensions p.11												

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



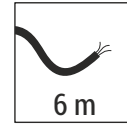
Quadri elettrici Control panels



Impianto elettrico CE.
CE control panel.



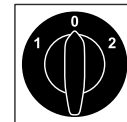
Conforme CE
CE compliance



Cavo di uscita 6 m
Exit cable 6 m



Conforme IP55
IP55 compliance



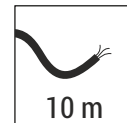
Interruttore/invertitore
Reverse switch



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.



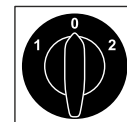
Conforme CE
CE compliance



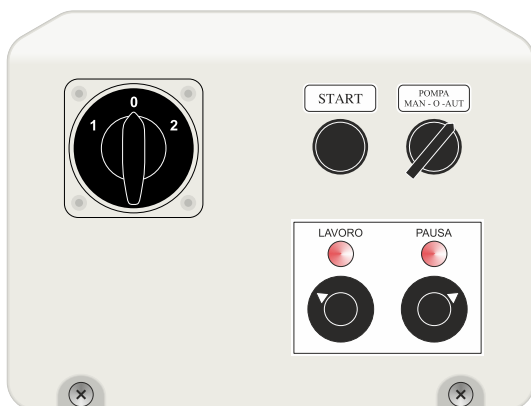
Cavo di uscita 10 m
Exit cable 10 m



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.

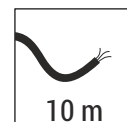
CE control panel with 2 selector switch timer, with 12 possible
selections each and with 2 time rate options (to be stated in
case of order):

LIV1 type = run 2-24 minutes, pause 10-120 minutes;

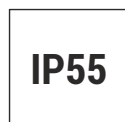
LIV2 type = run 2-24 minutes, pause 1-12 hours.



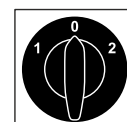
Conforme CE
CE compliance



Cavo di uscita 10 m
Exit cable 10 m




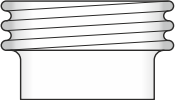
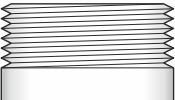
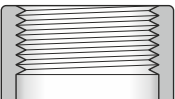
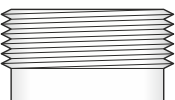

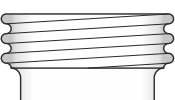
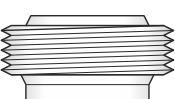
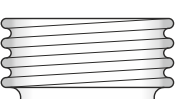
Conforme IP55
IP55 compliance



Interruttore/invertitore
Reverse switch

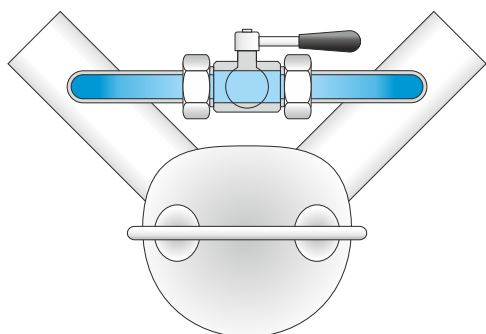


Raccordi Pipe fittings

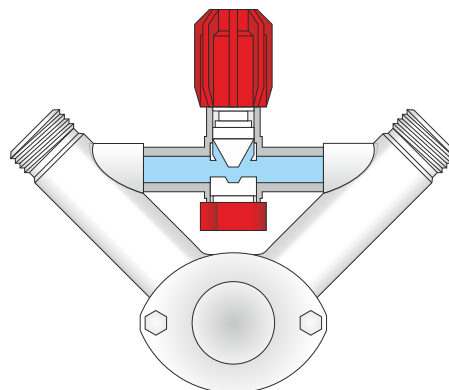
	Tipo Type	MINI	MIDEX	MINOR	MAJOR	MAXI
Garolla		Non disponibile Not available	Garolla 40	Garolla 40 Garolla 50	Garolla 50 Garolla 60 Garolla 70	Garolla 70 Garolla 80 Garolla 100
DIN 11851		DIN 20 DIN 25	DIN 32 DIN 40	DIN 40 DIN 50	DIN 50 DIN 60 DIN 65	DIN 65 DIN 80 DIN 100
BSP-M		BSP-M 3/4"	BSP-M 1"1/4	BSP-M 1"1/4 BSP-M 1"1/2	BSP-M 2"	BSP-M 2"1/2 BSP-M 3"
BSP-F		Non disponibile Not available	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		Non disponibile Not available	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		Non disponibile Not available	Friederich 40	Friederich 40	Friederich 40 Friederich 60	Friederich 60



Accessori Accessories



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



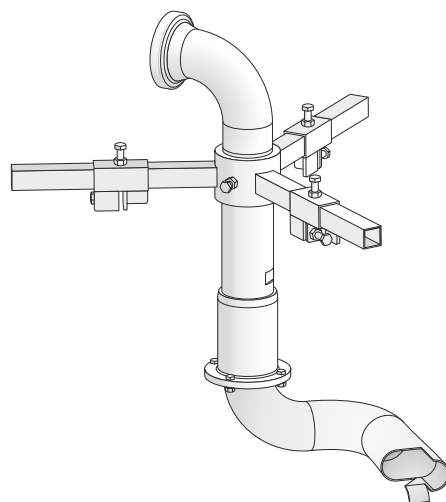
By-pass con valvola a molla per i modelli: Midex e Minor.
Spring bypass valve for pump types: Midex and Minor.



Kit riempi barriques o fusti:
Pistola automatica inox con valvola
di non ritorno e pressostato.

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.

Kit for barrel filling:
Stainless steel automatic gun with
no return valve and pressure switch.
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.



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 fasteing system for larger manways.



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 inverter 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).