

VA & INV Series



The VA Series is characterised by its ability to have its speed adjusted by means of its integral mechanical variator, which adjusts the mechanical output speed of the gearbox. Flow control isn't as accurate as the INV series however provides a decent flow range for applications where accurate flow control isn't necessarily required. Speed adjustment must be done whilst the pump is at standstill, NOT during operation. All VA series units are 3 phase as standard.

The INV Series provides the widest and most accurate control of flow as you can infinitely vary the speed of the motor between its min and max speed points by use of the pre-wired and calibrated inverter panel.

As with the RID series, the INV MAXI DOUBLE 2Q doubles the flow of the INV MAXI 80 & INV MAXI DOUBLE 2H doubles the head.

As standard the INVs are supplied trolley mounted and with a CE Control Panel with integral inverter, remote control on a 15 m cable with On / Off / Reverse & Speed Adjustment, Dry-Run Protection & supplementary 24V NC Contactor for wiring to any additional fluid accessories such as Flow Meters, Pressure Switches or Transducers etc...

Feeding supply for the INV series can be either 230V single phase (up to 2.2 kW) or 230-400V three phase.

Manual or Spring Loaded By-Passes are available on request for both VA & INV models.

Optional extras include:

- Waterproof & Floating Bi-directional radio controller & charging station with a 100 m range.
- Supplementary 4-20 mA Connector
- Timing System
- 4 Wheel Trolley

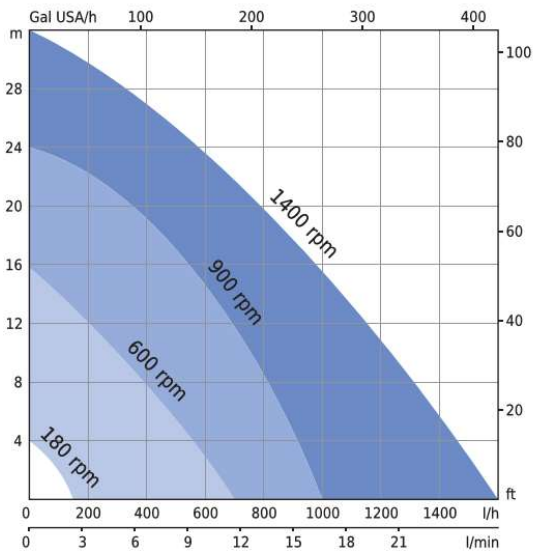
Performance & Dimensional Data:

Tipo Type	Alimentazione * Feeding *		HP	kW	Giri/min Rpm	H (m) = Prevalenza / Head										
						0	4	8	12	16	18	20	24	27	32	40
VA MINOR 40	TF 230-400 V 50 Hz		2	1.5	min 175	1320	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 230-400 V 50 Hz		2.5	1.87	min 175	4320	3840	3000	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 230-400 V 50 Hz		5.5	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 230 V 50 Hz	TF 400 V 50 Hz	0.75	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 230 V 50 Hz	TF 400 V 50 Hz	1	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 230 V 50 Hz	TF 400 V 50 Hz	2.5	1.87	min 50	380	0									
					175	1320	800	0								
					350	2750	2500	2100	1600	800	0					
					700	5000	4700	4300	3700	3000	2520	1800	0			
INV MAJOR 60	MF 230 V 50 Hz	TF 400 V 50 Hz	3	2.2	min 50	1230	0									
					175	4320	3840	3000	0							
					350	9000	7800	6000	3700	0						
					700	18000	15000	12000	8400	2500	0					
INV MAXI 80	TF 230 V 50 Hz	TF 400 V 50 Hz	5.5	4	min 50	3800	0									
					150	12000	10000	7500	0							
					300	24600	22200	18900	12000	0						
					470	36000	34200	30000	24000	12000	0					
INV MAXI Double 2Q	TF 230 V 50 Hz	TF 400 V 50 Hz	7.5	5.5	min 50	7600	0									
					175	27000	24000	20000	13000	0						
					235	36000	33000	27500	20500	10000	0					
					350	54000	48500	41500	33000	22000	14000	0				
INV MAXI Double 2H	TF 230 V 50 Hz	TF 400 V 50 Hz	7.5	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	
					350	27600	26700	25500	24000	22200	21000	20000	17200	14800	9700	0
					max 470	36000	35000	33600	32000	29700	28400	27000	23600	20600	14300	0

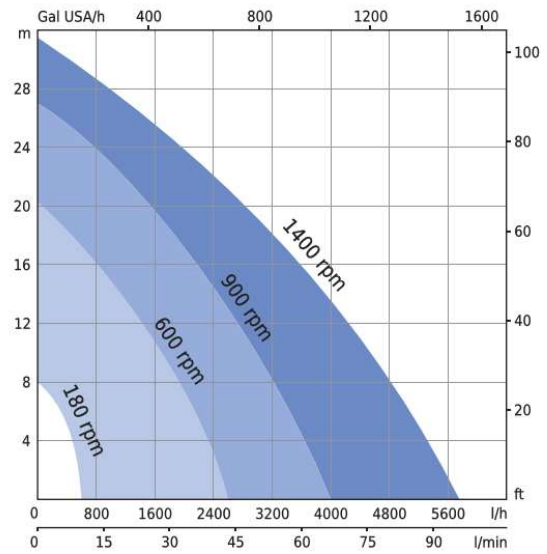
Q (l/h) = Portata / Capacity

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

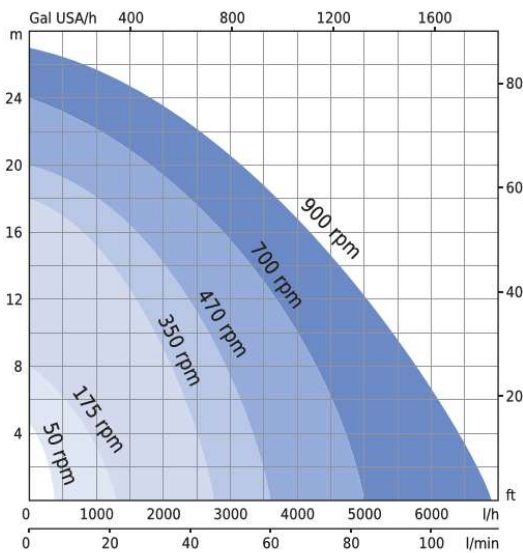
INV MINI 3/4"



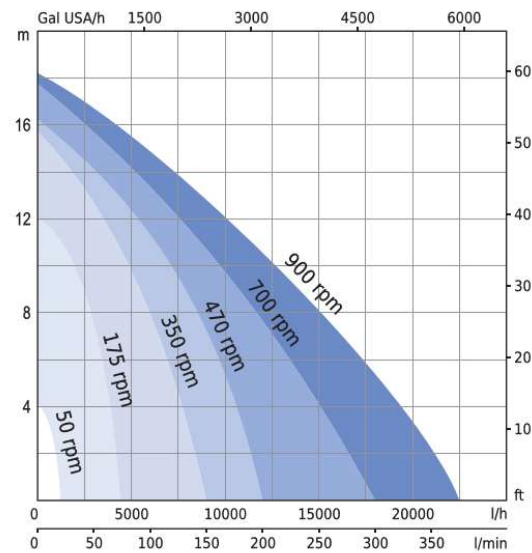
INV MIDEX 1" 1/4



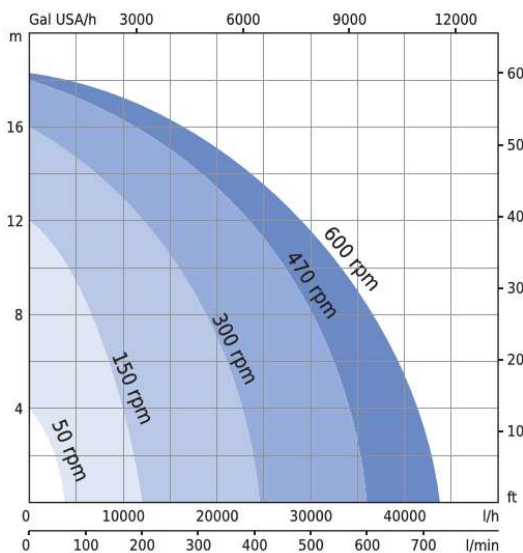
**VA MINOR 40
INV MINOR 40**



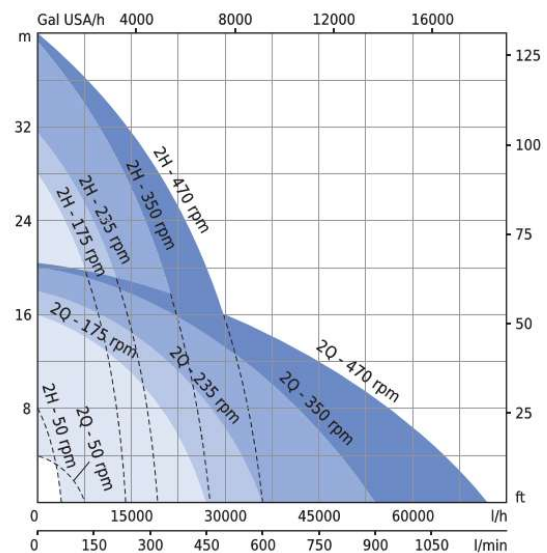
**VA MAJOR 60
INV MAJOR 60**



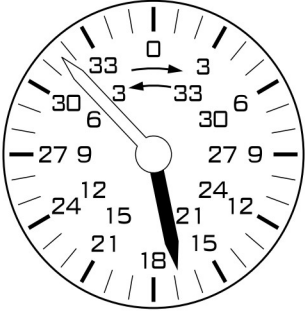
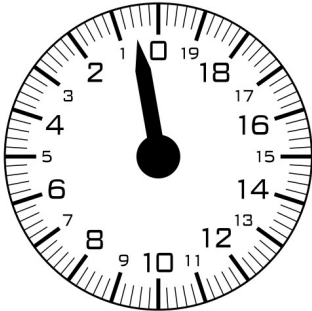
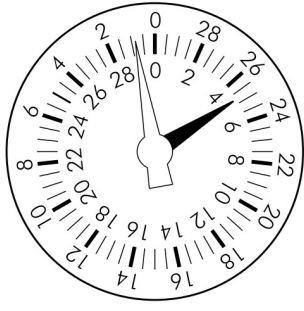
**VA MAXI 80
INV MAXI 80**



**INV MAXI Double 2Q
INV MAXI Double 2H**

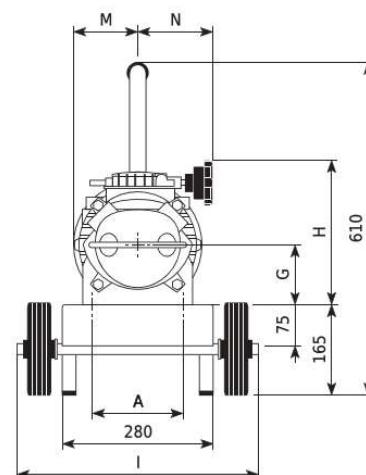
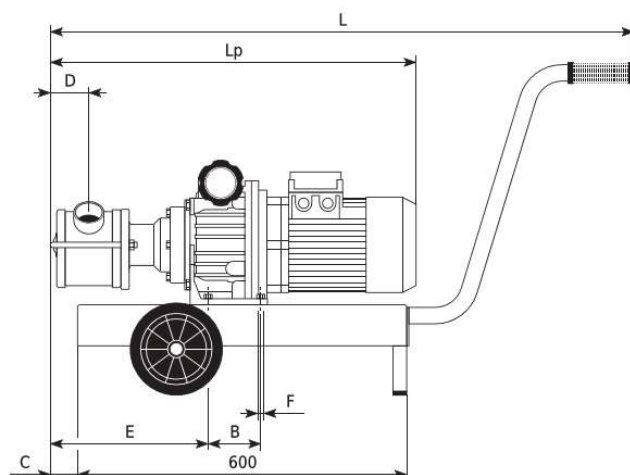


VA Series Rotational Speed Reference Table:

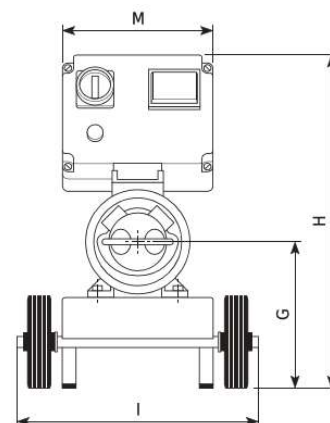
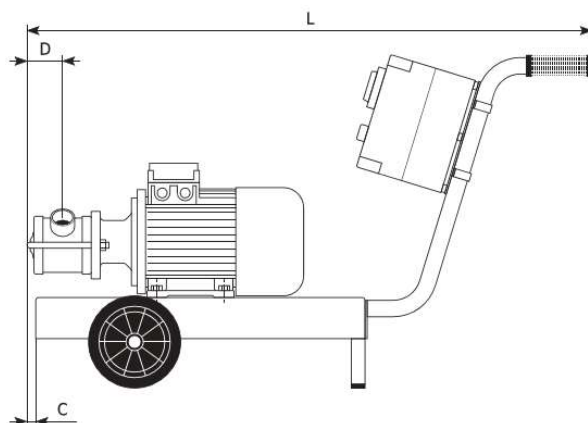
Control Wheel Positioning	Rotational Speed		
	VA MINOR (*) VA MAJOR-B (*)	VA MAJOR-M	VA MAXI (*)
			
0	900	210	600
2	855	250	520
3	830	275	480
6	750	360	380
9	670	460	275
12	600	565	190
14	555	645	-
16	510	725	-
18	465	810	-
20	425	900	-
24	345	-	-
30	235	-	-
33	190	-	-

(*) Refers to the black arrow position and the graduated scale.

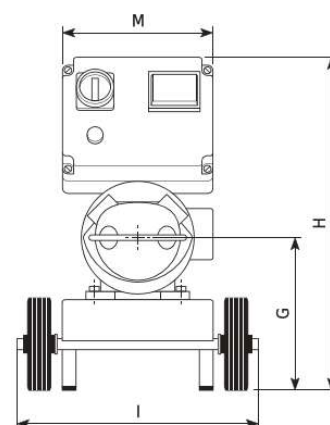
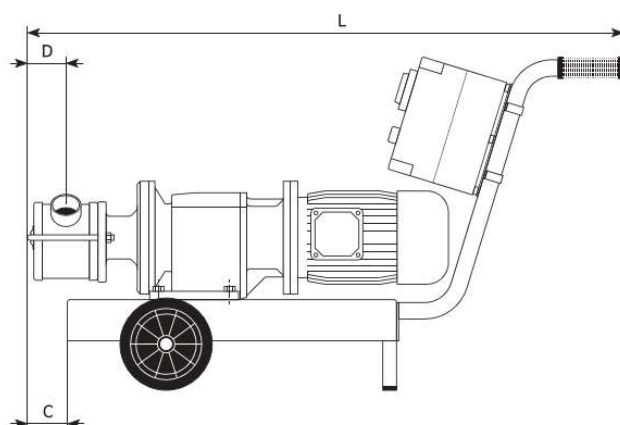
**VA
MINOR 40
MAJOR 60
MAXI 80**



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



**INV
MINOR 40
MAJOR 60
MAXI 80**



Tipo / Type	Peso / Weight	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	440	1030	640	117	137
VA MAJOR 60	67 kg	164	96	55	70	295	Ø11	109	264	440	1065	675	117	137
VA MAXI 80	109 kg	200	120	115	90	305	M12	132	337	440	1125	770	136	172.5
INV MINI 3/4"	17 kg	-	-	-	26	-	-	175	550	340	790	-	285	-
INV MIDEX 1"1/4	23 kg	-	-	15	38	-	-	175	550	340	805	-	285	-
INV MINOR 40	45 kg	-	-	70	60	-	-	268	610	440	1050	-	285	-
INV MAJOR 60	55 kg	-	-	135	70	-	-	275	610	440	1145	-	285	-
INV MAXI 80	95 kg	-	-	160	90	-	-	295	610	440	1200	-	285	-
INV MAXI Double	185/200 kg	Refer to RID dimensions												