VALISI

A brand of Asco Pompe

Screw Pumps

Progressive Cavity Pumps

ECO, POLY & SUPERPOLY Series

ASCO POMPE Srl, established in 1956, is a leading Italian company in the distribution, production, supply, and integration of fluid handling products and systems. Our product portfolio is capable of meeting demands from most business sectors, such as oil & gas, energy, chemicals, pharmaceutical, food, ceramics,

resins and paints, water treatment, and general industry. We offer our customers a wide range of services, including after-sales, revamping, engineering, design, and customization of pumping solutions. Customer satisfaction is at the basis of ASCO POMPE business philosophy.

DIVISIONS

In order to offer our customers a professional and high-quality service, ASCO POMPE is organized in specialized divisions made up of engineers and industry experts.

PUMPS & FLUID HANDLING

This division is dedicated to volumetric and centrifugal pumps and related products. Our brands are known worldwide for their quality, reliability, innovation, and assistance network.

ENGINEERED SYSTEMS

Our internal engineering office designs integrated fluid handling solutions, such as chemical injection packages, well head control panels, and polyelectrolyte dosing systems,all entirely manufactured in our warehouse.

WATER TECHNOLOGIES

We offerhigh-efficiency products and integrated solutions for the wastewater treatment industry.

CONTROL

Our control division provides process instruments for measuring flow, pressure, level, and temperature, and manufactures a complete range of oscillating piston volumetric flow meters.

SERVICE

We provide after-sales services for any kind of pump, including scheduled maintenance, repairs, and technical consultancy. We also offer on-site maintenance and commissioning activities worldwide, including offshore applications.

ECO, POLY & SUPERPOLY

Close-coupled progressive cavity pumps, specifically designed to process sludge and polyelectrolytes, both recurring fluids in water treatment plants. The close-coupled pump concept provides direct coupling between pump and gear box: this reduces dimensions, simplifying the assembling, disassembling and maintenance.

*The **ECO, POLY & SUPERPOLY** series are designed in standard, versatile versions to achieve maximum simplicity and economy. They are available in fixed or variable capacity, with manual variator or adjustable by remote signal.*

APPLICATIONS

- *Transfer of sludge in water treatment plants*
- *Circulation or extraction of sludge during the treatment, usually for primary, secondary, digested, or thickened sludge*
- *Transfer and metering of polyelectrolyte solutions in sludge or water treatment processes*
- *Most general industrial applications compatible with the construction features of the pump*

ADVANTAGES

- *Compact design*
- *Foot mount or optional baseplate*
- *Self-alignment between pump and motor*
- *Low cost*
- *Universal joint for coupling rod connection*

OUR CERTIFICATIONS

Asco Pompe Srl works according to quality criteria ISO 9001: 2008 certified by DNV-GL and all its production sites meet the safety requirements according to BS OHSAS 18001: 2007. Our staff is certified by BOSIET (Basic Offshore Safety Induction and Emergency Training).

INDEX

ECO F SERIES

General-purpose, self-priming progressive cavity pumps.

Fixed capacity pumps with gearmotor drive unit coupled through rigid joint. Inverter-ready motor for pump speed adjustment. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Transfer, pumping, or circulation of sludge, sewage, and wastewater from civil and industrial treatment plants.
Most industrial applications (compatible with the construction features of the pump).

TECHNICAL FEATURES

Models: 13 models

Capacity: Up to 60 m^3/h

Differential pressure: Please see single models

Pump construction:

- Body: Cast Iron
- Stator: NBR
- Rotor: Stainless steel AISI 410 HCP (hard chromium plated)
- Shaft: Stainless steel AISI 410 HCP (hard chromium plated)
- Shaft seal: Graphite packing or single mechanical seal SIC/SIC/Viton

Connections: UNI/DIN PN16 flanges

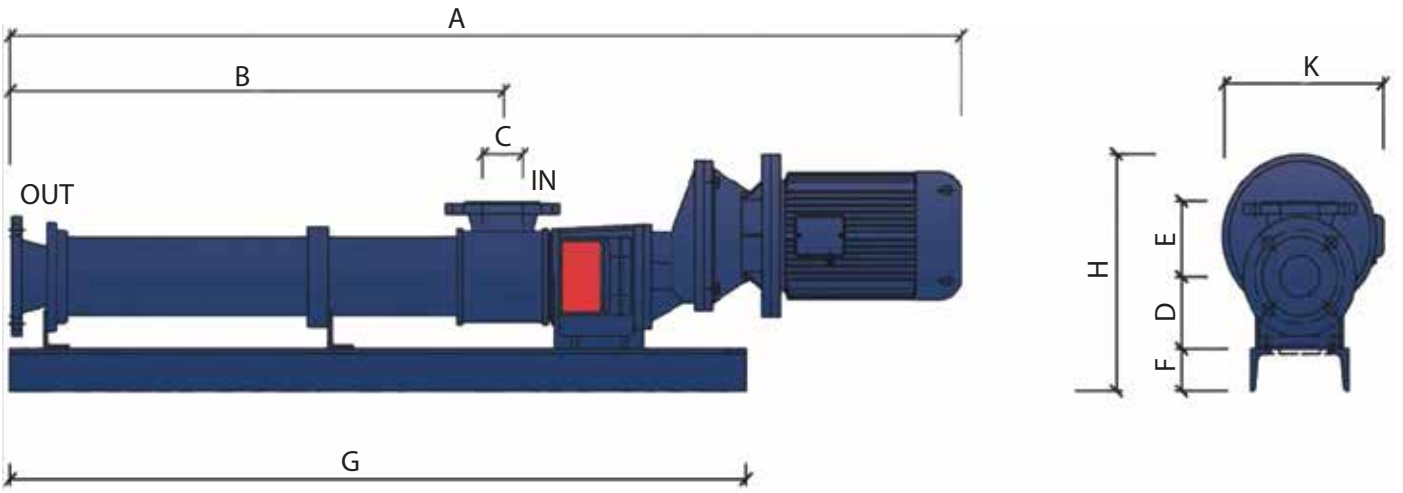
Equipments:

- Gearbox: Mechanical with gears
- Motor: CVE IP55 cl.F 400 / 50 / 3 - B5

Options and accessories:

- Painted carbon steel baseplate
- Dry running protection unit (ETI)

ECO F SERIES
Fixed capacity



Pump unit	Capacity (m^3/h)	Pressure (bar)	Speed (RPM @ 50Hz)	Pump models	Installed power (Kw)
ECO F 2,5	2,5	3	349	VRDCA531	0,75
ECO F 3,5	3,5	3	265	VRLCB54M	1,1
ECO F 5	5	3	376	VRLCB54M	1,5
ECO F 7,5	7,5	2	235	VRLCB57M	2,2
ECO F 10	10	3	315	VRLCB57M	3
ECO F 12	12	3	223	VRLCB591	3
ECO F 15	15	2	274	VRLCB591	3
ECO F 20	20	2	364	VRLCB591	4
ECO F 25	25	3	284	VRLCB611	5,5
ECO F 35	35	3	395	VRLGB611	7,5
ECO F 40	40	2	283	VRLGB63M	7,5
ECO F 50	50	2	353	VRLGB63M	11
ECO F 60	60	2	423	VRLCB63M	11

Pump model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	K (mm)	Weight (kg)
VRDCA531	963	388	DN 50	90	80	65	552	230	217	46
VRLCB54M	1198	583	DN 50	90	80	65	747	235	217	58
VRLCB57M	1485	737	DN 65	112	100	65	932	275	244	85
VRLCB591	1696	902	DN 80	130	132	65	1082	310	299	130
VRLCB611	2061	1202	DN100	130	142	65	1412	330	310	213
VRLGB63M	2305	1318	DN100	130	142	65	1528	355	360	265

Note: The overall dimensions are preliminary and not binding.

ECO V SERIES

General-purpose, self-priming progressive cavity pumps with manual variator.

Variable capacity pumps with gearmotor drive unit and manual variator, coupled through rigid joint. Inverter-ready motor for pump speed adjustment. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Transfer, pumping, or circulation of sludge, sewage, and wastewater from civil and industrial treatment plants.
Most industrial applications (compatible with the construction features of the pump).

TECHNICAL FEATURES

Models: 15 models

Capacity: Up to 60 m^3/h

Differential pressure: Please see single models

Pump construction:

- Body: Cast iron
- Stator: NBR
- Rotor: Stainless steel AISI 410 HCP (hard chrome plated)
- Shaft: Stainless steel AISI 410 HCP (hard chrome plated)
- Shaft seal: Graphite packing or single mechanical seal SIC/SIC/Viton

Connections: UNI/DIN PN16 flanges

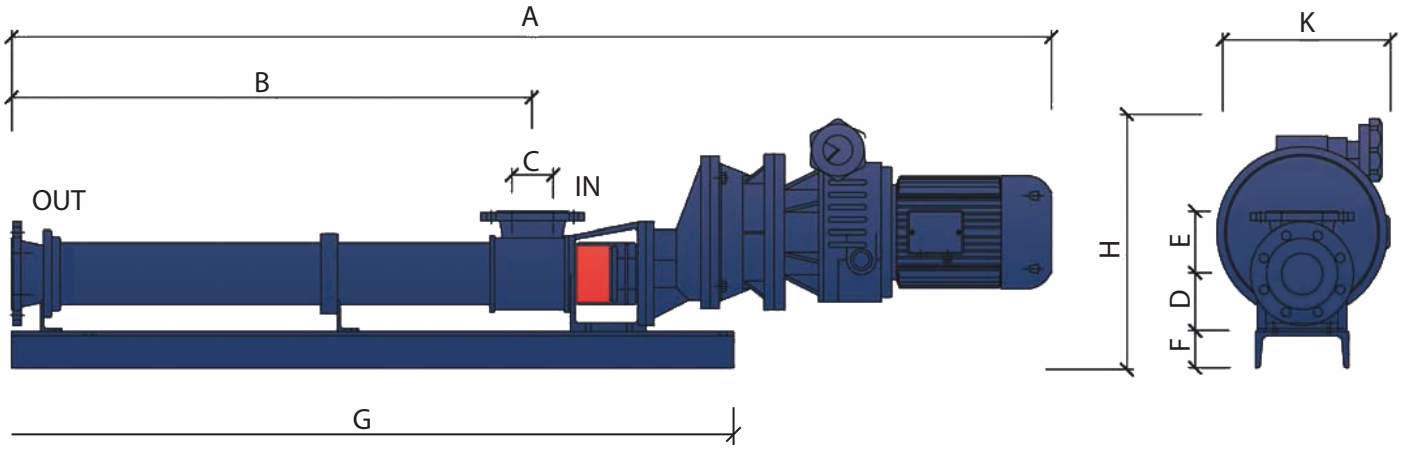
Equipments:

- Speed variator: Mechanical epicyclical with adjustment
- Gearbox: Knob Mechanical with gearsi
- Motor: CVE IP55 cl.F 400 / 50 / 3 - B5

Options and accessories:

- Painted carbon steel baseplate
- Dry running protection unit (ETI)

ECO V SERIES
Variable capacity with manual variator



Pump unit	Capacity max. (m^3/h)	Capacity min. (m^3/h)	Pressure (bar)	Speed range (RPM)	Pumps model	Installed power (Kw)
ECO V 1	1	0,2	6	165÷57	VRDCA531	0,75
ECO V 2,5	2,5	0,5	3	349÷77	VRDCA531	0,75
ECO V 3,5	3,5	0,8	3	265÷67	VRLCB54M	1,5
ECO V 5	5	1	3	376÷82	VRLCB54M	1,5
ECO V 7,5	7,5	1,5	2	235÷51	VRLCB57M	2,2
ECO V 10	10	2	3	315÷68	VRLCB57M	3
ECO V 12	12	2,4	2	374÷78	VRLCB57M	3
ECO V 15	15	3	2	274÷58	VRLCB591	3
ECO V 20	20	4	2	364÷76	VRLCB591	4
ECO V 25	25	5	1,5	280÷58	VRLCB611	4
ECO V 25/1	25	5	3	284÷61	VRLCB611	5,5
ECO V 35	35	7	3	395÷83	VRLGB611	7,5
ECO V 40	40	9	2	449÷103	VRLGB611	7,5
ECO V 50	50	8	2	353÷60	VRLGB63M	11
ECO V 60	60	10	2	423÷74	VRLGB63M	11

Pump model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	K (mm)	Weight (kg)
VRDCA531	1068	388	DN 50	90	80	65	552	255	214	50
VRLCB54M	1263	583	DN 50	90	80	65	747	335	214	54
VRLCB57M	1537	737	DN 65	112	100	65	932	277	214	85
VRLCB591	1613	902	DN 80	130	132	65	1082	295	214	125
VRLCB611	2162	1202	DN100	130	142	65	1412	345	310	190
VRLGB63M	2426	1318	DN100	130	142	65	1528	370	366	252

Note: The overall dimensions are preliminary and not binding.

ECO VARIO SERIES

General-purpose, self-priming progressive cavity pumps with integrated inverter.

Variable capacity pumps with gearmotor drive unit and integrated frequency inverter, either with potentiometer for manual adjustment or for automatic adjustment by analog signal. Gearbox coupled through rigid joint. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Transfer, pumping, or circulation of sludge, sewage, and wastewater from civil and industrial treatment plants.
Most industrial applications (compatible with the construction features of the pump).

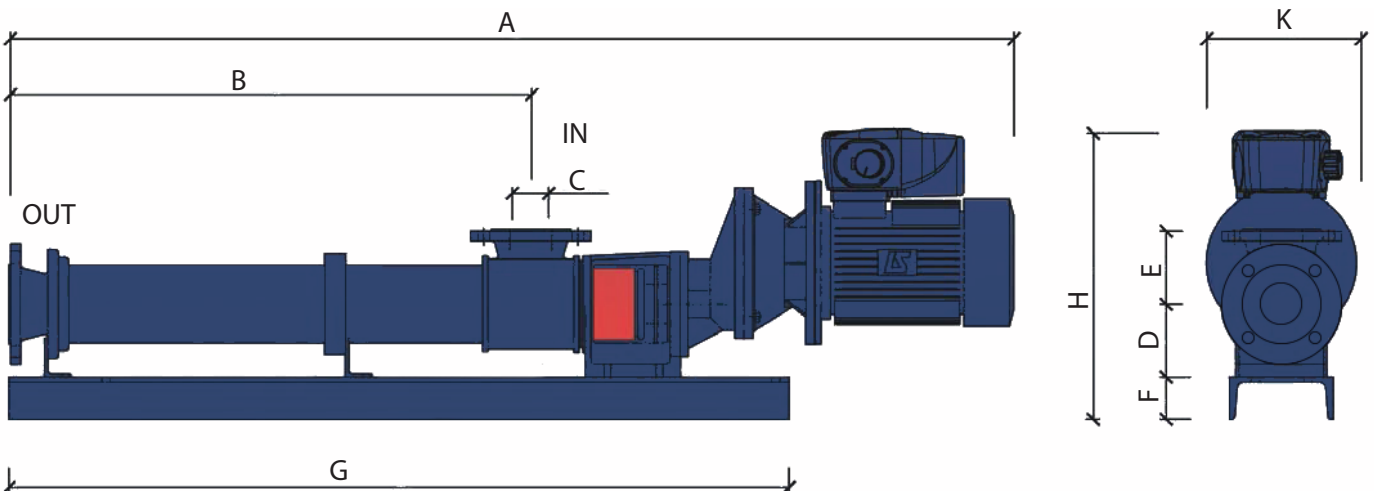
TECHNICAL FEATURES

Models:	13 models
Capacity:	Up to 60 m^3/h
Differential pressure:	Please see single models
Pump construction:	
· Body:	Cast Iron
· Stator:	NBR nitrile
· Rotor:	Stainless steel AISI 410 HCP (hard chrome plated)
· Shaft:	Stainless steel AISI 410 HCP (hard chrome plated)
· Shaft seal:	Baderna grafitata lubrificata o tenuta meccanica singola SIC/SIC/Viton
Connections:	UNI/DIN PN16 flanges
Equipments:	
· Speed variator:	NORD inverter (predisposition 11÷77 Hz)
· Gearbox:	Mechanical with gears
· Motor:	CVE IP55 cl.F 400 / 50 / 3 - B5

Options and accessories:

- Painted carbon steel baseplate
- Dry running protection unit (ETI)

POLY F SERIES
Variable capacity pumps with integrated inverter



Pump unit	Capacity max. (m^3/h)	Capacity min. (m^3/h)	Pressure (bar)	Speed range* (RPM @ 77÷11Hz)	Pump models	Installer power (Kw)
ECO VARIO 2,5	2,5	0,4	3	64÷349	VRDCA531	1,1
ECO VARIO 3,5	3,5	0,5	3	265÷45	VRLCB54M	1,1
ECO VARIO 5	5	0,7	3	376÷60	VRLCB54M	1,5
ECO VARIO 7,5	7,5	1	2	235÷35	VRLCB57M	2,2
ECO VARIO 10	10	1,4	3	315÷650	VRLCB57M	3
ECO VARIO 12	12	1,6	2	374÷54	VRLCB57M	3
ECO VARIO 15	15	1,9	2	274÷38	VRLCB591	3
ECO VARIO 20	20	2,7	2	364÷53	VRLCB591	4
ECO VARIO 25	25	3,5	1,5	280÷41	VRLCB611	4
ECO VARIO 35	35	5	3	395÷61	VRLGB611	7,5
ECO VARIO 40	40	5,5	2	449÷62	VRLGB611	7,5
ECO VARIO 50	50	7	2	353÷53	VRLGB63M	11
ECO VARIO 60	60	8,5	2	423÷64	VRLGB63M	11

* Pump speed and capacity are adjusted by integrated inverter, operating frequency 11 ÷ 77 Hz.

Pump model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	K (mm)	Weight (kg)
VRDCA531	1003	388	DN 50	90	80	65	552	337	140	49
VRLCB54M	1198	583	DN 50	90	80	65	747	337	140	50
VRLCB57M	1485	737	DN 65	112	100	65	932	359	140	77
VRLCB591	1721	902	DN 80	130	132	65	1082	414	150	117
VRLCB611	2024	1202	DN100	130	142	65	1412	455	190	175
VRLGB63M	2304	1318	DN100	130	142	65	1528	518	237	242

Note: The overall dimensions are preliminary and not binding.

POLY & SUPERPOLY VARIO SERIES

Self-priming progressive cavity metering pumps with integrated inverter, designed for polyelectrolyte applications.

Variable capacity pumps with gearmotor drive unit and integrated frequency inverter, either with potentiometer for manual adjustment or (alternatively) with automatic adjustment by analog signal. Gearbox coupled through rigid joint. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Metering and transfer of chemicals and aqueous polyelectrolyte solutions in water and sludge treatment.
Most industrial applications (compatible with the construction features of the pump).

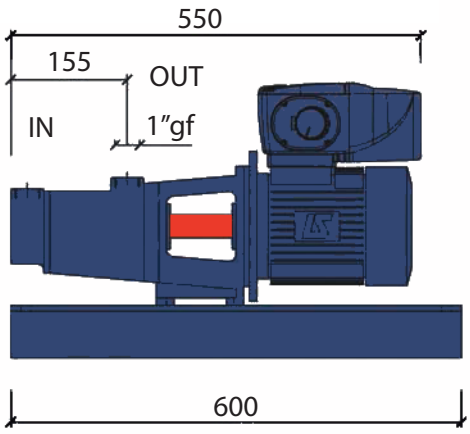
TECHNICAL FEATURES	*POLY VARIO*	*SUPERPOLY VARIO*
Models:	3 models	3 models
Capacity:	Up to 2500 l/h [@ 50 Hz]	Up to 4500 l/h [@ 50 Hz]
Differential pressure:	Up to 2 bar	Up to 3 bar
Pump construction:		
• Body:	Cast Iron	Cast Iron
• Stator:	RJ - High Nitrile	Nitrile
• Rotor:	Stainless Steel AISI 410	AISI 410 HCP (hard chrome plated)
• Shaft:	Stainless Steel AISI 410	AISI 410 HCP (hard chrome plated)
• Shaft seal:	Single mechanical seal CAR/CER/NBR	Graphite packing or single Mechanical seal SIC/SIC/Viton
Connections:	1" GAS F BSP	UNI/DIN DN50 PN16 flanges
Equipments:		
• Speed variator:	NORD inverter (predisposition 11÷77 Hz)	
• Gearbox:	Mechanical with gears	
• Motor:	CVE IP55 cl.F 400 / 50 / 3 - B5	

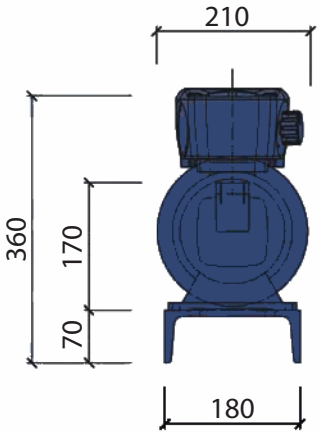
Options and accessories:

- Painted baseplate in carbon steel
- Dry running protection ETI (only for SUPERPOLY)

POLY VARIO SERIES

Variable capacity pumps with integrated inverter. Designed for polyelectrolyte applications

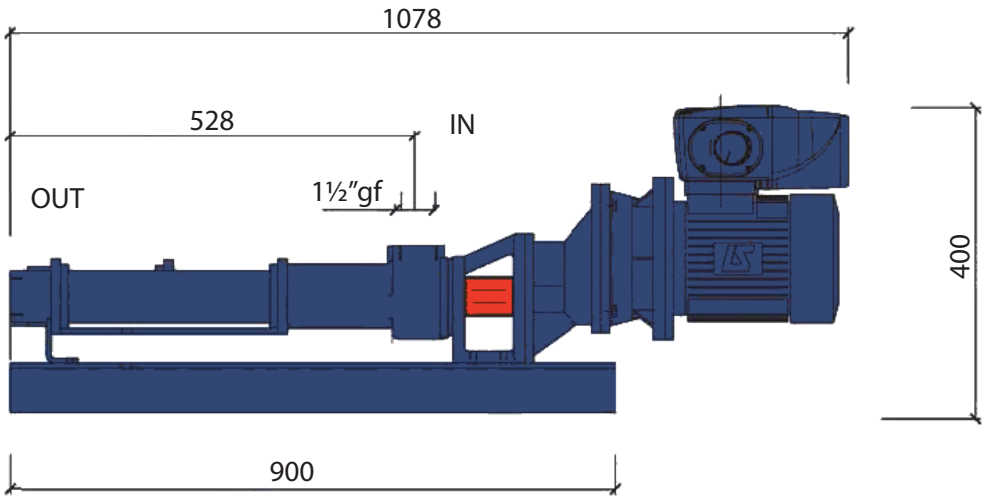


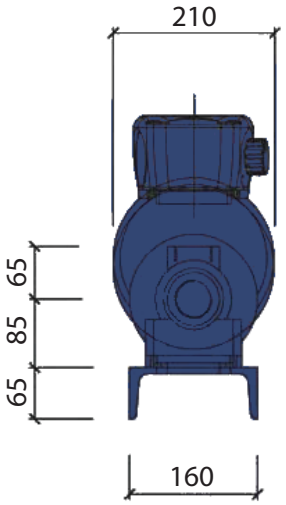


Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range* (RPM @ 77÷11Hz)	Pump model	Installed power (Kw)	Motor
POLY VARIO 900	900	100	2	1400÷200	VMCCF	0,55	80 - 6p - 930 RPM
POLY VARIO 1200	1200	130	2	1400÷200	VMCCG	0,75	90 - 6p -930 RPM
POLY VARIO 2500	2500	230	2	1400÷200	VMCCH	0,75	90 - 6p -930 RPM

SUPERPOLY VARIO SERIES

Variable capacity pumps with integrated inverter. Designed for polyelectrolyte applications





Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range* (RPM)	Pump model	Installed power (Kw)	Gearbox
SUPERPOLY VARIO 2900	2900	400	3	413÷73	VRDCA531	80 - 4p - 0,75	r.r. 4,62
SUPERPOLY VARIO 3500	3500	500	3	494÷86	VRDCA531	80 - 4p - 1,1	r.r. 4,17
SUPERPOLY VARIO 4500	4500	700	3	630÷114	VRDCA531	80 - 4p - 1,5	r.r. 3,22

Notes: The overall dimensions are preliminary and not binding. Considered viscosity is 45 cPs.
* Pump speed and capacity are adjusted by integrated inverter, operating frequency 11 ÷ 77 Hz.

POLY & SUPERPOLY V SERIES

Self-priming progressive cavity metering pumps with manual variator, designed for polyelectrolyte applications.

Variable capacity pumps with gearmotor drive unit and manual variator, coupled through rigid joint. Inverter-ready motor for pump speed adjustment. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Metering and transfer of chemicals and aqueous polyelectrolyte solutions in water and sludge treatment.
Most industrial applications (compatible with the construction features of the pump).

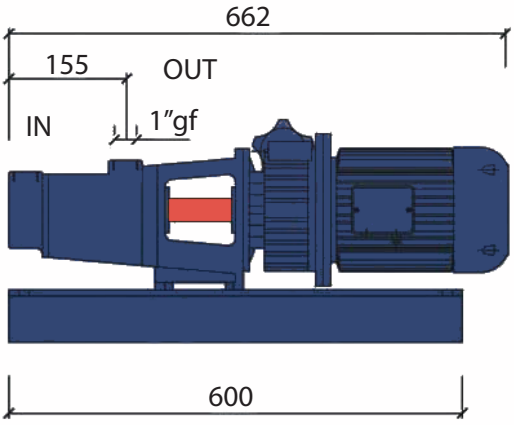
TECHNICAL FEATURES	*POLY V*	*SUPERPOLY V*
Models:	3 models	3 models
Capacity:	Up to 2500 l/h [@ 50 Hz]	Up to 4500 l/h [@ 50 Hz]
Differential pressure:	Up to 2 bar	Up to 3 bar
Pump construction:		
· Body:	Cast Iron	Cast Iron
· Stator:	RJ - High Nitrile	Nitrile
· Rotor:	AISI 410	AISI 410 HCP (hard chrome plated)
· Shaft:	AISI 410	AISI 410 HCP (hard chrome plated)
· Shaft seal:	Single mechanical seal CAR/CER/NBR	Graphite packing or single Mechanical seal SIC/SIC/Viton
Connections:	1" GAS F BSP	UNI/DIN DN50 PN16 flanges
Equipments:		
· Speed variator:	NORD inverter (predisposition 11÷77 Hz)	
· Gearbox:	Mechanical with gears	
· Motor:	CVE IP55 cl.F 400 / 50 / 3 - B5	

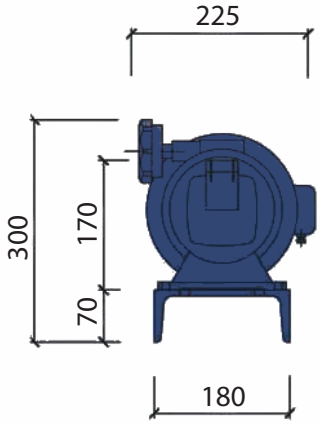
Options and accessories:

- Painted carbon steel baseplate
- Dry running protection unit (ETI) (only for SUPERPOLY)

POLY V SERIES

Variable capacity pumps with manual variator. Designed for polyelectrolyte applications

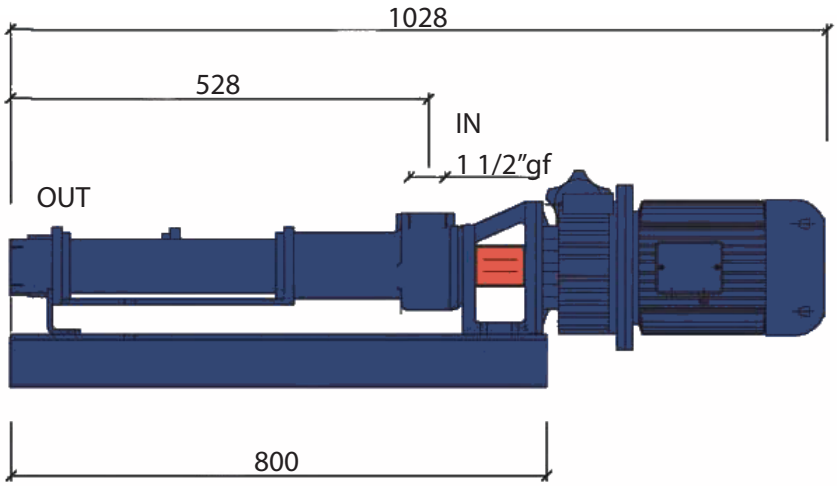


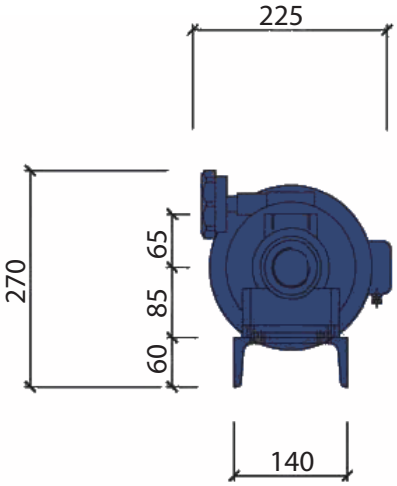


Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range (RPM)	Pump model	Installed power (Kw)	Motor
POLY V 400	400	40	3	660÷120	VMCCF	0,55	80 - 6 poli
POLY V 650	650	70	3	1000÷180	VMCCF	0,55	80 - 4 poli
POLY V 1100	1100	110	3	660÷120	VMCCH	0,55	80 - 6 poli
POLY V 1700	1700	220	3	1000÷180	VMCCH	0,55	80 - 4 poli
POLY V 2100	2100	100	2	1150÷100	VMCCH	0,75	80 - 4 poli

SUPERPOLY V SERIES

Variable capacity pumps with manual variator. Designed for polyelectrolyte applications





Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range (RPM)	Pump model	Installed power (Kw)	Gearbox
SUPERPOLY V 3200	3200	800	3	445÷120	VRDCA531	0,55	80 - 6 poli
SUPERPOLY V 4200	4200	1200	3	581÷174	VRDCA531	0,75	80 - 6 poli

Notes: The overall dimensions are preliminary and not binding. Considered viscosity 45 cPs.

POLY & SUPERPOLY VARIO SERIES

Self-priming progressive cavity metering pumps with integrated inverter, designed for polyelectrolyte applications.

Variable capacity pumps with gearmotor drive unit and integrated frequency inverter, either with potentiometer for manual adjustment or (alternatively) with automatic adjustment by analog signal. Gearbox coupled through rigid joint. Close-coupled construction with support feet or optional baseplate.
Alkyd standard protective paint, RAL 5011 blue.

APPLICATIONS

Metering and transfer of chemicals and aqueous polyelectrolyte solutions in water and sludge treatment.
Most industrial applications (compatible with the construction features of the pump).

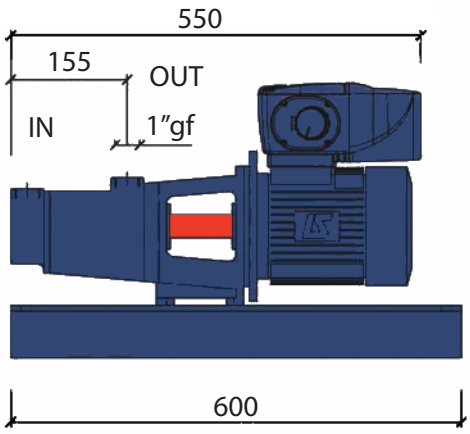
TECHNICAL FEATURES	*POLY VARIO*	*SUPERPOLY VARIO*
Models:	3 models	3 models
Capacity:	Up to 2500 l/h [@ 50 Hz]	Up to 4500 l/h [@ 50 Hz]
Differential pressure:	Up to 2 bar	Up to 3 bar
Pump construction:		
• Body:	Cast Iron	Cast Iron
• Stator:	RJ - High Nitrile	Nitrile
• Rotor:	Stainless Steel AISI 410	AISI 410 HCP (hard chrome plated)
• Shaft:	Stainless Steel AISI 410	AISI 410 HCP (hard chrome plated)
• Shaft seal:	Single mechanical seal CAR/CER/NBR	Graphite packing or single Mechanical seal SIC/SIC/Viton
Connections:	1" GAS F BSP	UNI/DIN DN50 PN16 flanges
Equipments:		
• Speed variator:	NORD inverter (predisposition 11÷77 Hz)	
• Gearbox:	Mechanical with gears	
• Motor:	CVE IP55 cl.F 400 / 50 / 3 - B5	

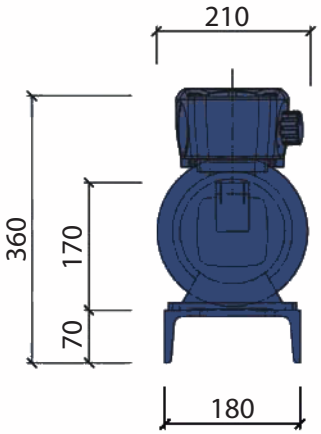
Options and accessories:

- Painted baseplate in carbon steel
- Dry running protection ETI (only for SUPERPOLY)

POLY VARIO SERIES

Variable capacity pumps with integrated inverter. Designed for polyelectrolyte applications

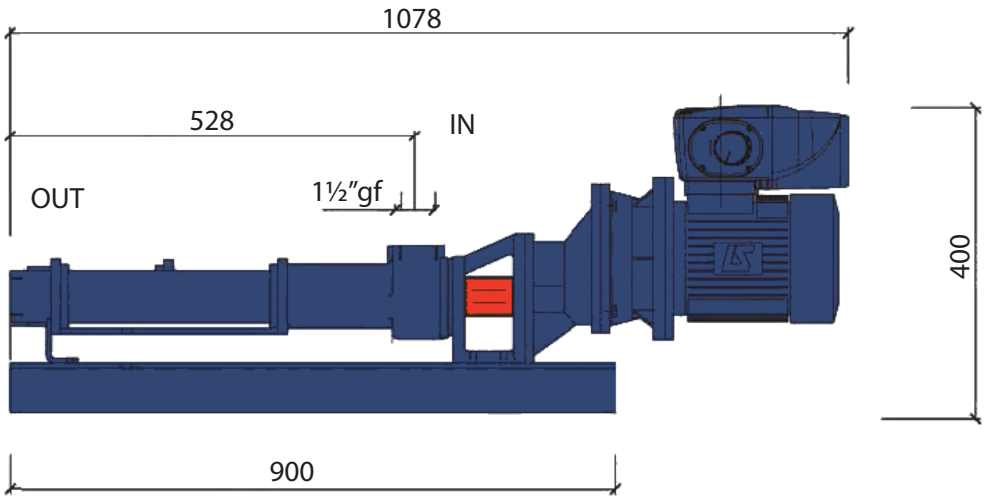


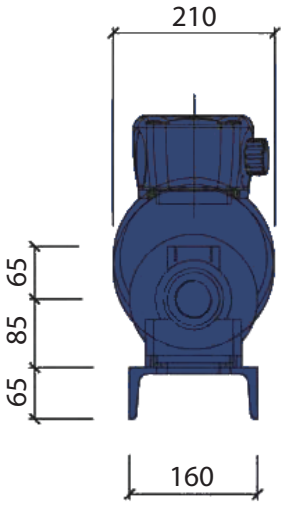


Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range* (RPM @ 77÷11Hz)	Pump model	Installed power (Kw)	Motor
POLY VARIO 900	900	100	2	1400÷200	VMCCF	0,55	80 - 6p - 930 RPM
POLY VARIO 1200	1200	130	2	1400÷200	VMCCG	0,75	90 - 6p -930 RPM
POLY VARIO 2500	2500	230	2	1400÷200	VMCCH	0,75	90 - 6p -930 RPM

SUPERPOLY VARIO SERIES

Variable capacity pumps with integrated inverter. Designed for polyelectrolyte applications





Pump unit	Capacity max. (l/h)	Capacity min. (l/h)	Pressure (bar)	Speed Range* (RPM)	Pump model	Installed power (Kw)	Gearbox
SUPERPOLY VARIO 2900	2900	400	3	413÷73	VRDCA531	80 - 4p - 0,75	r.r. 4,62
SUPERPOLY VARIO 3500	3500	500	3	494÷86	VRDCA531	80 - 4p - 1,1	r.r. 4,17
SUPERPOLY VARIO 4500	4500	700	3	630÷114	VRDCA531	80 - 4p - 1,5	r.r. 3,22

Notes: The overall dimensions are preliminary and not binding. Considered viscosity is 45 cPs.
* Pump speed and capacity are adjusted by integrated inverter, operating frequency 11 ÷ 77 Hz.

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Asco Pompe S.r.l.
Via Silvio Pellico, 6/8
20089 Rozzano (MI) - ITALY
Phone: +39 02 89257.1
Fax: +39 02 89257.201
@: asco@ascopompe.com
www.ascopompe.com

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