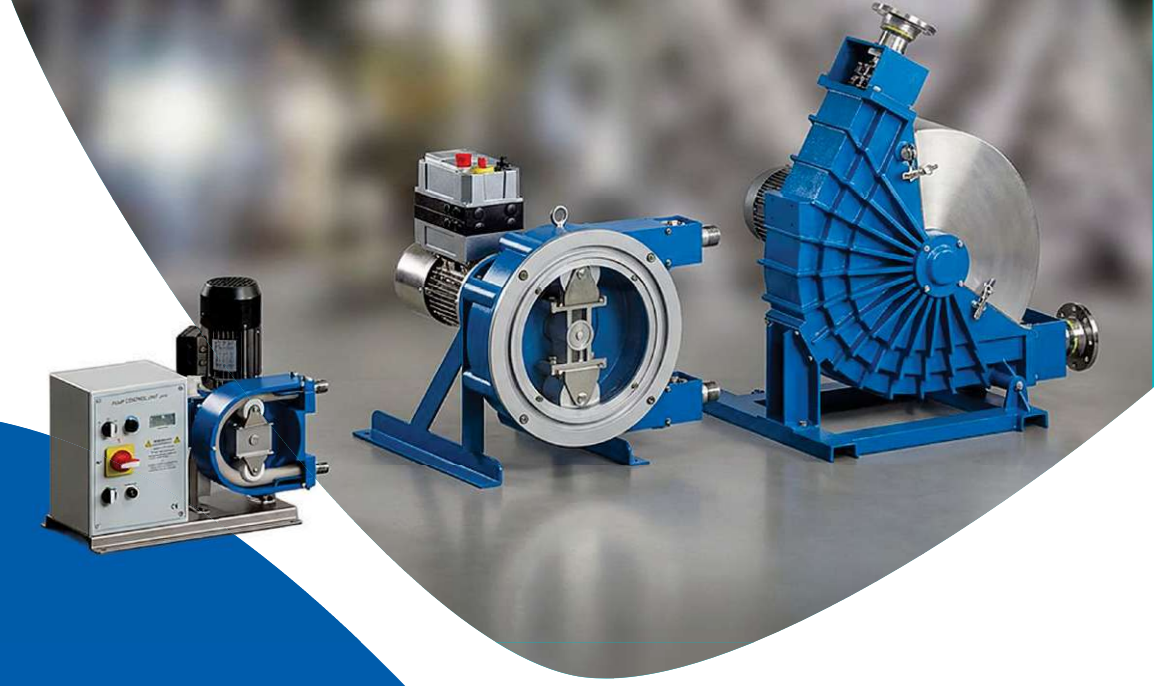


acme
clever pumps

PERISTALTIC **PUMPS**

www.acmepompe.it

INDEX

ACME – CLEVER PUMPS
INNOVATIVE SOLUTIONS FOR FLUID TRANSFER AND DOSING **SINCE 1992**

Founded in 1992, ACME Pumps quickly established itself as one of the leading manufacturers of industrial peristaltic pumps, air-operated double diaphragm pumps, centrifugal pumps and diaphragm metering pumps. With decades of experience supporting businesses across various sectors, our mission is to deliver highly specialized, tailor-made pumping solutions, solving complex challenges and meeting the unique needs of every customer.

Headquarters and Production Facility

ACME's headquarters and manufacturing facility are located in Santo Stefano Ticino, just 25 km west of Milan and 30 km south of Malpensa Airport (MXP). This strategic location allows us to efficiently serve both national and international clients, offering excellent logistical connections for shipments and customer support. Our facility houses both the production plant and the commercial offices, enabling close coordination between our technical and sales teams to ensure fast, customized service.

A Dynamic, Customer-Focused Company

ACME is a lean and flexible organization, able to adapt swiftly to market demands. Our customer-centric approach is reflected in our unique ability to respond to specific and customized requests. Thanks to our strong design expertise and long-standing partnerships with trusted suppliers, we can handle demand surges and provide prompt, reliable solutions—even through well-established subcontracting agreements.

High-Quality Products for Every Industrial Sector

ACME offers a wide range of PERISTALTIC pumps, ideal for dosing and transferring fluids in a variety of industrial applications. Sizes range from DN10 to DN80, with flow rates between 1 and 66,000 L/h. The pumps can be supplied with fixed speed or variable speed, adjustable by means of a mechanical variator or a variable frequency drive. Thanks to FDA and ATEX certifications, our pumps are fully qualified to operate in the food and pharmaceutical industries, as well as in any environments classified as potentially explosive.

ACME pumps are used across a wide range of industries, including:

- **Water purification, wastewater treatment, aquariums, marine and naval sectors**
- **Chemical, pharmaceutical, and cosmetics industries**
- **Winemaking, food, and dairy sectors**
- **Paints, inks, paper mills, and tanneries**
- **Construction, cement and ceramic plants**
- **Gas scrubbing towers.**

Thanks to their durability and versatility, our pumps are ideal for transferring and dosing challenging fluids such as corrosive, abrasive, viscous liquids, or those with solid suspensions. They are designed to handle intermittent flow, difficult suction conditions, and can run dry for extended periods.

Our Mission and Commitment to Quality

Our mission is clear: to deliver specific, customized pumping solutions with the customer always at the center. To ensure maximum reliability, we are constantly improving our products and manufacturing processes. Quality is our hallmark, achieved through:

- Long-standing collaborations with trusted suppliers

- Careful selection of materials and components
- Strict control over the entire production process
- Specialized expertise within our team

A Leading International Brand

Driven by the professionalism and passion of our team, ACME has grown steadily over the years, strengthening its presence both in the local and international markets. Today, we are recognized as one of the key players in the pump sector, and we continue to expand our reach to meet the needs of an increasingly demanding market.

Our Product Range

Our range of pumps includes:

- **Peristaltic pumps –** ideal for dosing and transferring viscous fluids with solid particles
- **Double diaphragm pneumatic pumps –** suitable for aggressive industrial fluids
- **Diaphragm dosing pumps –** designed for applications requiring precise dosing
- **Mag-drive and mechanically sealed centrifugal pumps** – for pulse-free transfer of low-viscosity fluids
- **Drum and IBC transfer pumps –** designed for direct liquid transfer from drums or IBC tanks

Core Values

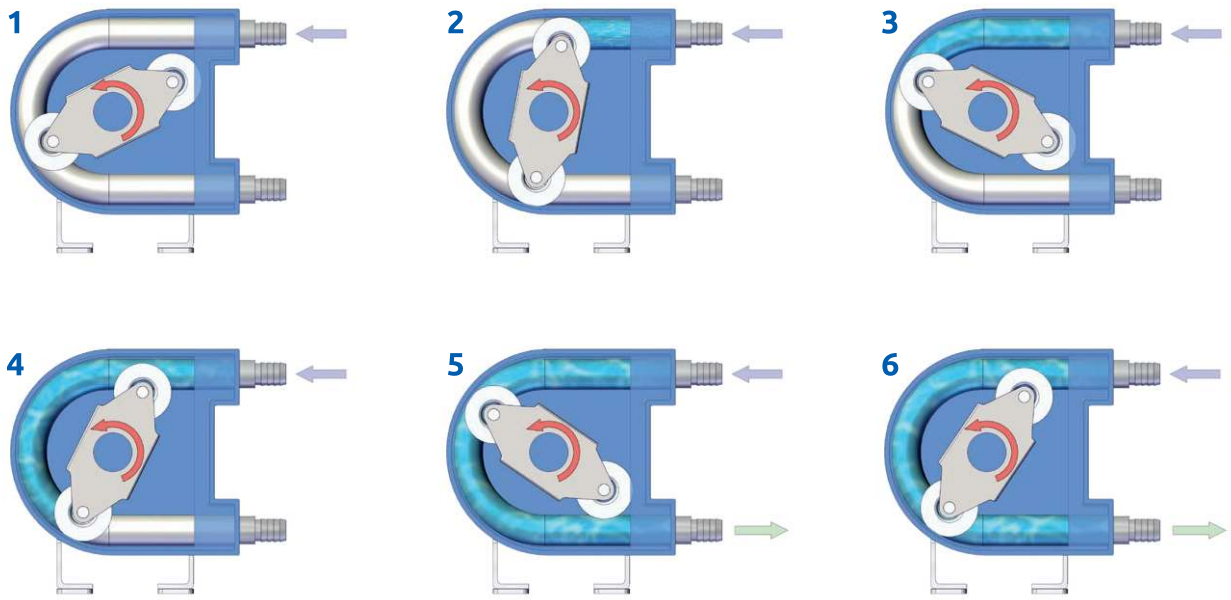
At the heart of our corporate philosophy lies the customer and a strong commitment to compliance and ethical standards. Every member of our internal and external teams is dedicated to providing solutions that are competent, reliable, and timely.

Conclusion

For over 30 years, ACME Clever Pumps has stood for quality, innovation, and reliability in the industrial pump industry. Backed by decades of experience and a drive for continuous innovation, we areready to support every customer—facing today's challenges and shaping tomorrow's solutions together.

GENERAL
INFORMATION

PUMP OPERATION



The peristaltic pump is a self-priming volumetric unit, ideal for the dosing and transfer of abrasive fluids, viscous liquids, or those containing solid particles. The principle is based on the progressive compression of a flexible hose by rollers or shoes mounted on a rotor. The rotary motion sequentially compresses the hose, creating suction and discharge zones that ensure a continuous flow. The hose, equipped with elastic memory, quickly returns to its original shape after compression, promoting fluid suction and ensuring a perfect seal. The fluid is confined inside the hose, preventing contamination and making the pump suitable even for aggressive or sensitive fluids.

FEATURES & BENEFITS

Seal-less design
No mechanical seals, stuffing boxes, or other rotating sealing components are present in contact with the fluid, eliminating leakage risks.

Accurate and repeatable dosing
The pumps ensure accuracy up to ±0.5% over the entire speed range, with excellent repeatability and easy integration into process control systems.

Lowest cost of ownership and easy maintenance
The pumped fluid is contained exclusively within the hose, which is the only wear component. Hose replacement is quick and simple, resulting in significantly lower maintenance costs compared to other pump technologies.

Long service life and high reliability
The pumps are designed for heavy-duty industrial applications. Advanced elastomer technology ensures reliable, consistent performance that outperforms conventional pump solutions.

Reversible flow
Bidirectional operation allows easy emptying and draining of pipelines.

Self-priming and dry-run capability
Pumps can self-prime up to 9.8 meters and can run dry continuously without damage.

Low noise level
Sound level below 70 dB(A) at 1 meter.

High viscosity capability
ACME peristaltic pumps can transfer fluids with viscosities up to 50,000 cP, and can handle up to 100,000 cP when dealing with non-Newtonian fluids.

Certifications
ATEX and FDA certifications are available, making this technology suitable for applications in the food, pharmaceutical, chemical, and petrochemical industries.

APPLICATIONS

Abrasive Products

ACME peristaltic pumps are particularly suitable for abrasive slurries, where they often outperform other pump types. Since all mechanical components are isolated from the product and only the hose is in contact with the fluid, abrasive wear is minimized.
Products that tend to crystallize can also be pumped efficiently, as there are no valves or glands that could become clogged by crystal build-up.

Corrosive Products

When handling corrosive fluids, correct hose material selection is critical to pump longevity. With the appropriate hose and no other wetted mechanical parts, long service life and safe operation are ensured.

Fluids with Solids or Shear-Sensitive Products

Fluids containing solid particles – such as wastewater with gravel, wood fragments, concrete residues, or food products – can be transferred easily thanks to the unobstructed hose passage.
ACME pumps are also ideal for shear-sensitive or foamy products, as the gentle, non-emulsifying pumping action preserves product integrity and consistency.

Viscous Products

The strong self-priming capability allows ACME pumps to generate near-vacuum conditions, making them ideal for transferring highly viscous materials such as honey, grout, resins, or sludge – applications that are challenging for many other pump types.

Environmental Applications

There are two main environmental applications for pumps:

- **Chemical dosing**
- **Sludge transfer**

1) Chemical dosing

Commonly used for sodium hypochlorite, sodium bisulfite, ferric chloride, polymers, lime slurry, and carbon slurry. In particular, when pumping sodium hypochlorite – which releases gas – the pump maintains efficiency by pumping liquid and gas simultaneously without air-lock issues.

2) Sludge transfer

Pumps can handle a wide range of sludges, depending on the treatment stage of the plant, including thickened sludge, waste activated sludge, return activated sludge, and corrosive sludge.

TUBING CHART

Material	Color	Applications	T OPR °C	T MAX °C	AS Series	ASP Series	ATR Series
Silicone	Red tube	Non-aggressive chemical products	120	150	Yes	No	No
Acmeprene	Cream tube	Alcoholic products, diluted acids, alkalis, oils and abrasives	100	130	Yes	No	No
Acmeprene FDA	Cream tube	Food, pharmaceutical and chemical products, alkalis, oils, diluted acids	100	130	Yes	No	No
NR	Green stripe	Abrasive, saline, alkaline, alcoholic products	60	80	Yes (size 20/25)	Yes	Yes
NR Food	Black tube with white inner layer	Non-fatty food products	50	70	Yes (size 25)	Yes	Yes
NBR	Red stripe	Oily products, fats, hydrocarbons and hydrocarbon solvents	40	60	Yes (size 25)	Yes	Yes
NBR Food	Black tube with red stripe and white inner layer	Fatty food products such as vegetable and animal oils	40	60	Yes (size 25)	Yes	Yes
EPDM	White stripe	Non-aggressive chemicals, diluted acids, alkalis, saline solutions	60	80	Yes (size 25)	Yes	Yes
Hypalon	Yellow stripe	Chemicals, acids, alkalis, solvents, oxidizing agents, alcohol, salts and hydrocarbons	60	90	Yes (size 25)	Yes	Yes
Special	For very demanding applications in terms of chemical compatibility, we offer a selection of special tubes in Viton, Tygon and Chem Durance						

acme clever pumps

ASP SERIES
PERISTALTIC PUMPS

High pressure peristaltics for dosing and transfers
Flow rates from 9 to 25,000 l/h
Pressures up to 12 bar

ASP SERIES

The ASP series peristaltic pumps, manufactured by our company, are designed to handle transfers and precision dosing at high pressures. They can process highly viscous fluids containing significant amounts of suspended solids. They also ensure a gentle transfer of both industrial and food-grade fluids.

RANGE OF PERFOMANCE

High pressure peristaltics for dosing and transfers Flow rates from 9 to 25,000 L/h Pressures up to 12 bar

MAIN APPLICATIONS

- Dosing of chemicals containing solid particles or prone to crystallization
- Dosing of eggs, tomato concentrate, diced tomato, and additives in the wine industry
- Transfer of tomatoes during different processing stages (puree, diced, and concentrate)
- Transfer of must and grape stems in the wine sector
- Transfer of ceramic products (glazes and slips)
- Transfer of highly abrasive construction materials (concrete, wall coatings, mortars, plasters)
- Feeding of filling machines
- Dosing of glues and adhesives
- Transfer and filling of paints and inks
- Transfer of wastewater and sludge
- Feeding of filter presses, skimmers, and vibrating screens
- Bilge water emptying in the naval industry

THE RANGE INCLUDES THE FOLLOWING CONFIGURATIONS

ASP FX SERIES

Fixed flow pumps

ASP VX SERIES

Variable flow pumps with mechanical variator

ASP IX SERIES

Variable flow pumps with separate frequency variator

ASP SERIES

ASP FX

Water treatment plants, wastewater treatment, chemical and petrochemical industry, paper mills, textile industry, ceramic industry, construction, mining industry, paints and inks, emulsifiable oils, food and dairy industry, pasta factories, oenological and bottling sector, pharmaceutical and cosmetics industry, tanneries.

SUITABLE FOR

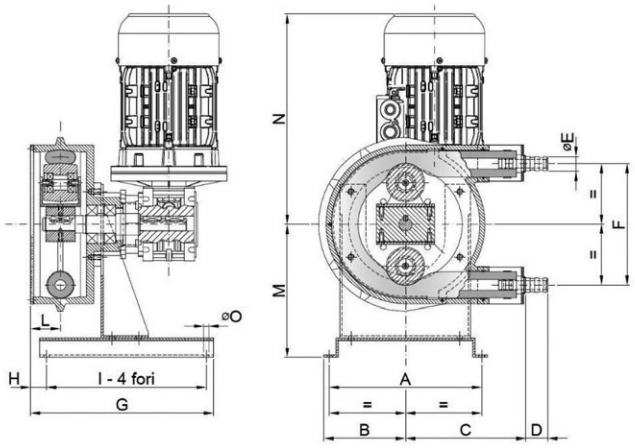
- abrasive products
- acidic products
- sensitive products
- viscous products
- dense products
- dosing applications
- vacuum applications
- use in explosive environments

TECHNICAL DATA

	Q(L/H)	A	P	RPM	I	KW	di	Qu	Nm
ASP 10 FX	47	8	100	23	60	0,18	10	0,034	35
	72	8	80	35	40	0,18			
	96	8	80	47	30	0,37			
	143	8	80	70	20	0,37			
ASP 15 FX	102	8	100	23	60	0,18	15	0,074	35
	155	8	80	35	40	0,18			
	209	8	80	47	30	0,37			
	310	8	80	70	20	0,37			
ASP 20 FX	275	8	80	35	40	0,55	15	0,131	40
	349	8	80	45	31,5	0,75			
	440	8	70	56	25	0,75			
	550	8	60	70	20	0,75			
ASP 25 FX	672	8	80	35	40	0,55	25	0,32	40
	864	8	80	45	31,5	0,75			
	1075	8	70	56	25	0,75			
	1344	8	60	70	20	0,75			
ASP 32 FX	1596	8	100	38	37	0,10	32	0,70	75
	1974	8	80	47	30	0,10			
	2436	8	60	58	24	0,10			
	2940	8	40	70	20	0,10			
ASP 40 FX	2040	8	100	25	56	1,50	40	1,36	110
	2938	8	80	36	39	1,50			
	3672	8	60	45	31,5	1,50			
	5712	8	40	70	20	1,50			
ASP 50 FX	4185	8	100	25	56	2,20	50	2,79	200
	6026	8	60	36	39	2,20			
	7533	8	60	45	31,5	3			
	11718	8	40	70	20	3			
ASP 65 FX	8580	8	80	22	63	4	65	6,50	400
	13650	8	60	35	40	5,5			
	17550	8	60	45	31,5	7,5			
	21840	8	50	56	25	7,5			

***** = according to the hose used
A = suction in m
P = head in m
di = inside diameter of hose
Qu = liters per revolution
Nm = min.starting torque

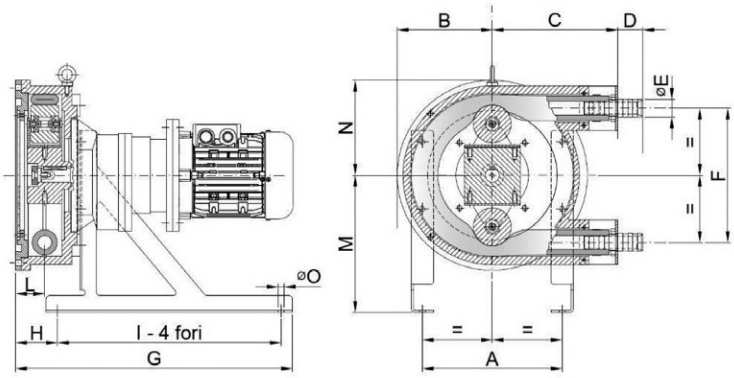
ASP 10/15 FX



DIMENSIONS

	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 10 FX	210	112	166	25	15	167	251	21	220	40	184	260	7	16
ASP 15 FX	210	112	166	30	20	167	251	21	220	40	184	260	7	16

ASP 20/65 FX



DIMENSIONS

	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 20 FX	250	170	224	25	20	240	495	75	400	52	228	170	11	44
ASP 25 FX	250	170	224	25	32	240	495	75	400	52	228	170	11	44
ASP 32 FX	330	217	230	66	40	314	655	114	520	68	300	217	11	80
ASP 40 FX	420	270	340	70	50	398	735	130	580	74	370	270	14	120
ASP 50 FX	420	330	380	80	65	512	833	158	650	88	440	330	14	160
ASP 65 FX	566	440	510	91	80	672	1107	142	930	106	570	440	18	430

ASP SERIES

ASP VX

Water treatment plants, wastewater treatment, chemical and petrochemical industry, paper mills, textile industry, ceramic industry, construction, mining industry, paints and inks, emulsifiable oils, food and dairy industry, pasta factories, oenological and bottling sector, pharmaceutical and cosmetics industry, tanneries.

SUITABLE FOR

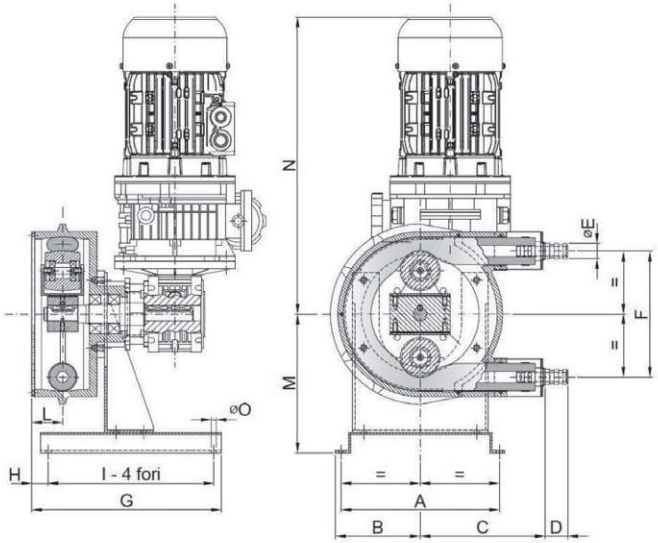
- abrasive products
- acidic products
- sensitive products
- viscous products
- dense products
- dosing applications
- vacuum applications
- use in explosive environments

TECHNICAL DATA

	Q(L/H)	A	P	RPM	I	KW	di	Qu	Nm
ASP 10 VX	6,5 ÷ 30,6	8	100	3,2 ÷ 15	60	0,22	10	0,034	35
	9,6 ÷ 46	8	100/70	4,7 ÷ 22,5	40	0,22			
	15,5 ÷ 77,5	8	100/60	7,6 ÷ 38	25	0,37			
	26 ÷ 129	8	100/50	12,7 ÷ 63,3	15	0,37			
ASP 15 VX	14,2 ÷ 66,6	8	100/80	3,2 ÷ 15	60	0,22	15	0,074	35
	21 ÷ 100	8	100/70	4,7 ÷ 22,5	40	0,22			
	34 ÷ 168,7	8	100/60	7,6 ÷ 38	25	0,37			
	56,4 ÷ 281	8	100/50	12,7 ÷ 63,3	15	0,37			
ASP 20 VX	37 ÷ 196,5	8	100/60	4,7 ÷ 25	40	0,37	15	0,131	40
	60 ÷ 314,4	8	100/60	7,6 ÷ 40	25	0,75			
	94,3 ÷ 487,3	8	100/50	12 ÷ 62	16	0,75			
	118 ÷ 629	8	100/40	15 ÷ 80	12,5	0,75			
ASP 25 VX	90 ÷ 480	8	100/60	4,7 ÷ 25	40	0,37	25	0,32	40
	146 ÷ 768	8	100/60	7,6 ÷ 40	25	0,75			
	230 ÷ 1190	8	100/50	12 ÷ 62	16	0,75			
	288 ÷ 1536	8	100/40	15 ÷ 80	12,5	0,75			
ASP 32 VX	210 ÷ 1134	8	100/60	5 ÷ 27	37	1,1	32	0,70	75
	319 ÷ 1680	8	100/60	7,6 ÷ 40	25	1,1			
	504 ÷ 2604	8	100/50	12 ÷ 62	16	1,1			
	630 ÷ 3360	8	100/40	15 ÷ 80	12,5	1,1			
ASP 40 VX	342 ÷ 1811	8	100/60	4,2 ÷ 22,2	45	1,5	40	1,36	110
	489 ÷ 2611	8	100/60	6 ÷ 32	31,5	1,5			
	775 ÷ 4080	8	100/50	9,5 ÷ 50	20	2,2			
	979 ÷ 5059	8	100/40	12 ÷ 62	16	2,2			
ASP 50 VX	703 ÷ 3716	8	100/60	4,2 ÷ 22,2	45	2,2	50	2,79	200
	1004 ÷ 5356	8	100/60	6 ÷ 32	31,5	2,2			
	1590 ÷ 8370	8	100/50	9,5 ÷ 50	20	3			
	2008 ÷ 10378	8	100/40	12 ÷ 62	16	3			
ASP 65 VX	1638 ÷ 8658	8	100/60	4,2 ÷ 22,2	45	4	65	6,50	400
	2340 ÷ 12480	8	100/60	6 ÷ 32	31,5	5,5			
	2964 ÷ 15600	8	100/50	7,6 ÷ 40	25	7,5			
	3705 ÷ 19500	8	100/40	9,5 ÷ 50	20	7,5			

***** = according to the hose used
A = suction in m
P = head in m
di = inside diameter of hose
Qu = liters per revolution
Nm = min.starting torque

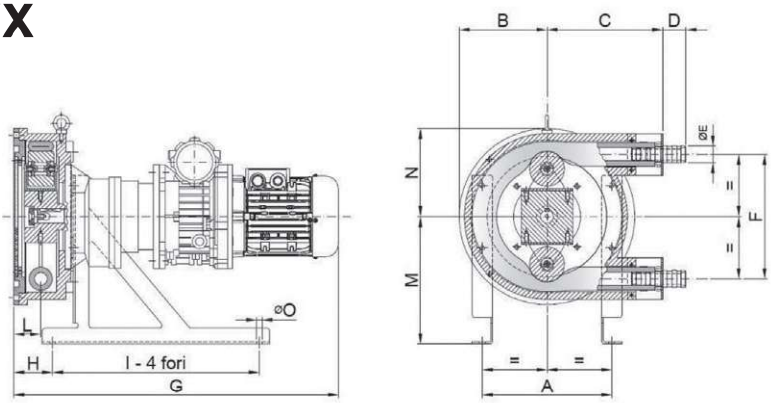
ASP 10/15 VX



DIMENSIONS

	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 10 VX	210	112	166	25	15	167	251	21	220	40	184	394	7	20
ASP 15 VX	210	112	166	30	20	167	251	21	220	40	184	394	7	20

ASP 20/65 VX



DIMENSIONS

	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 20 VX	250	170	224	45	20	240	640	75	400	52	228	170	11	50
ASP 25 VX	250	170	224	45	32	240	640	75	400	52	228	170	11	50
ASP 32 VX	330	217	290	66	40	314	735	114	520	68	300	217	11	90
ASP 40 VX	420	270	340	70	50	398	884	130	580	74	370	270	14	120
ASP 50 VX	420	330	380	80	65	512	1017	158	650	88	440	330	14	180
ASP 65 VX	566	440	510	91	80	672	1385	142	930	106	570	440	18	430

ASP SERIES

ASP IX

Water treatment plants, wastewater treatment, chemical and petrochemical industry, paper mills, textile industry, ceramic industry, construction, mining industry, paints and inks, emulsifiable oils, food and dairy industry, pasta factories, oenological and bottling sector, pharmaceutical and cosmetics industry, tanneries.

SUITABLE FOR

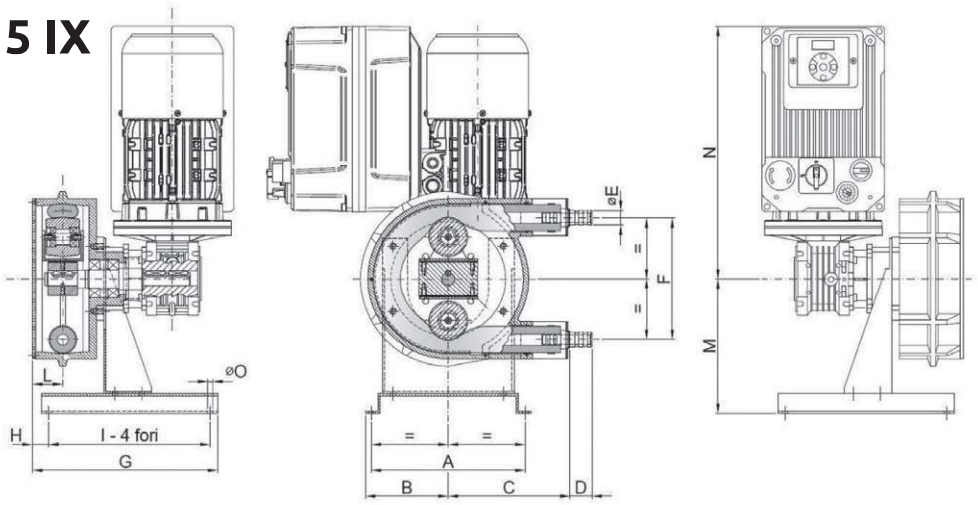
- abrasive products
- acidic products
- sensitive products
- viscous products
- dense products
- dosing applications
- vacuum applications
- use in explosive environments

TECHNICAL DATA

	Q(L/H)	A	P	RPM	I	KW	di	Qu	Nm
	9 ÷ 65	8	100/80	4,5 ÷ 32	60	0,37			
ASP 10 IX	19 ÷ 130	8	100/60	9,3 ÷ 6,5	30	0,37	10	0,034	35
	28,5 ÷ 200	8	100/50	14 ÷ 98	20	0,37			
	20 ÷ 142	8	100/80	4,5 ÷ 32	60	0,37			
ASP 15 IX	41,3 ÷ 289	8	100/60	9,3 ÷ 65	30	0,37	15	0,074	35
	62 ÷ 435	8	100/50	14 ÷ 98	20	0,37			
	55 ÷ 385	8	100/80	7 ÷ 49	40	0,75			
ASP 20 IX	71 ÷ 495	8	100/60	9 ÷ 63	31,5	0,75	15	0,131	40
	110 ÷ 870	8	100/50	14 ÷ 98	20	0,75			
	134 ÷ 940	8	100/80	7 ÷ 49	40	0,75			
ASP 25 IX	173 ÷ 1210	8	100/60	9 ÷ 63	31,5	0,75	25	0,32	40
	268 ÷ 1880	8	100/50	14 ÷ 98	20	0,75			
	294 ÷ 2058	8	100/80	7 ÷ 42	46	1,5			
ASP 32 IX	390 ÷ 2730	8	100/50	9,3 ÷ 65	30	1,5	32	0,7	75
	588 ÷ 4116	8	100/40	14 ÷ 98	20	1,5			
	408 ÷ 2856	8	100/80	5 ÷ 35	56	1,5			
ASP 40 IX	734 ÷ 5140	8	100/50	9 ÷ 63	31,5	1,5	40	1,36	110
	938 ÷ 6528	8	100/40	11,5 ÷ 80	24,5	2,2			
	837 ÷ 5860	8	100/80	5 ÷ 35	56	2,2			
ASP 50 IX	1507 ÷ 10546	8	100/50	9 ÷ 63	31,5	3	50	2,79	200
	1925 ÷ 13395	8	100/40	11,5 ÷ 80	24,5	4			
	1720 ÷ 12090	8	100/80	4,4 ÷ 31	63	5,5			
ASP 65 IX	2730 ÷ 19110	8	100/50	7 ÷ 49	40	7,5	65	6,5	400
	3510 ÷ 24570	8	100/40	9 ÷ 63	31,5	7,5			

***** = according to the hose used
A = suction in m
P = head in m
di = inside diameter of hose
Qu = liters per revolution
Nm = min.starting torque

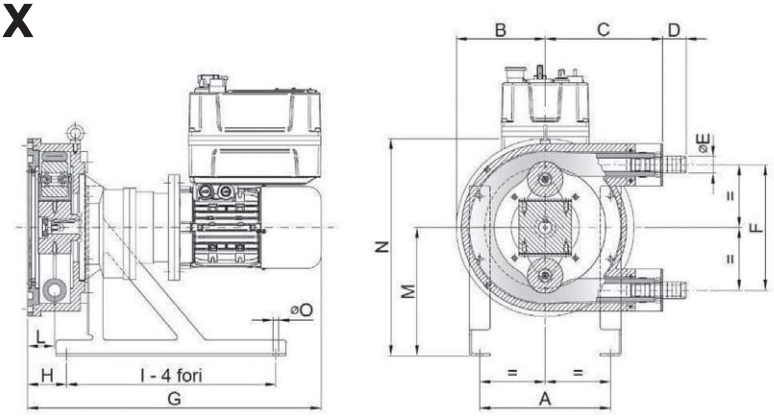
ASP 10/15 IX



DIMENSIONS

	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 10 IX	210	112	166	25	15	167	251	21	220	40	184	334	7	25
ASP 15 IX	210	112	166	30	20	167	251	21	220	40	184	334	7	25

ASP 20/65 IX

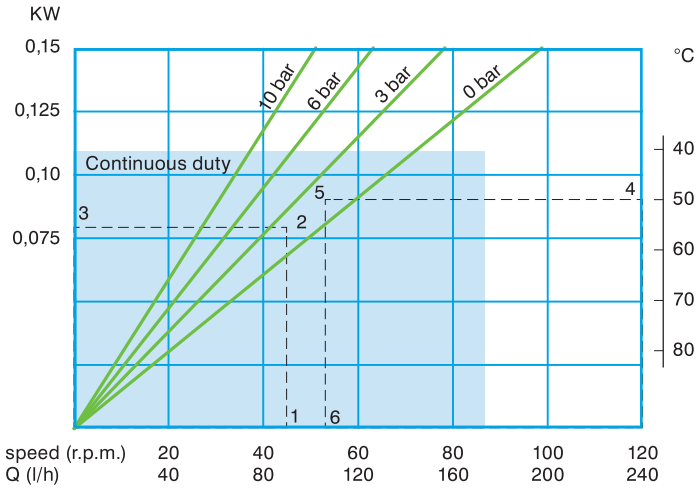


DIMENSIONS

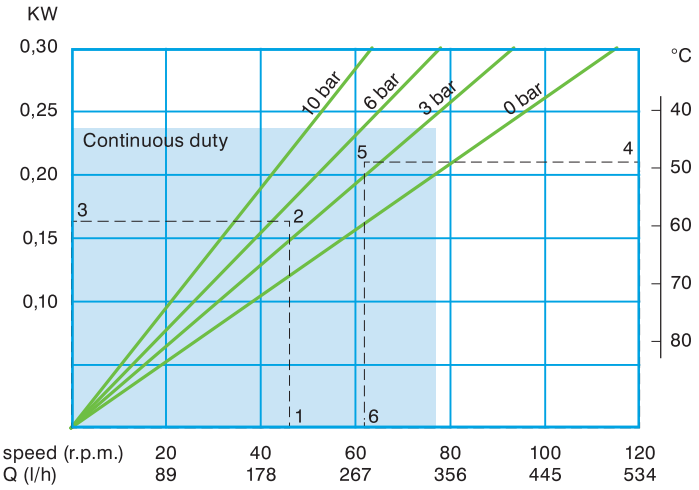
	A	B	C	D	øE	F	G	H	I	L	M	N	øO	Kg
ASP 20 IX	250	170	224	25	20	240	550	75	400	52	228	398	11	54
ASP 25 IX	250	170	224	25	32	240	550	75	400	52	228	398	11	54
ASP 32 IX	330	217	230	66	40	314	654	114	520	68	300	517	11	90
ASP 40 IX	420	270	340	70	50	398	735	130	580	74	370	640	14	130
ASP 50 IX	420	330	380	80	65	512	833	158	650	88	440	770	14	170
ASP 65 IX	566	440	510	91	80	672	1107	142	930	106	570	1010	18	430

ASP SERIES PERFORMANCE CURVES

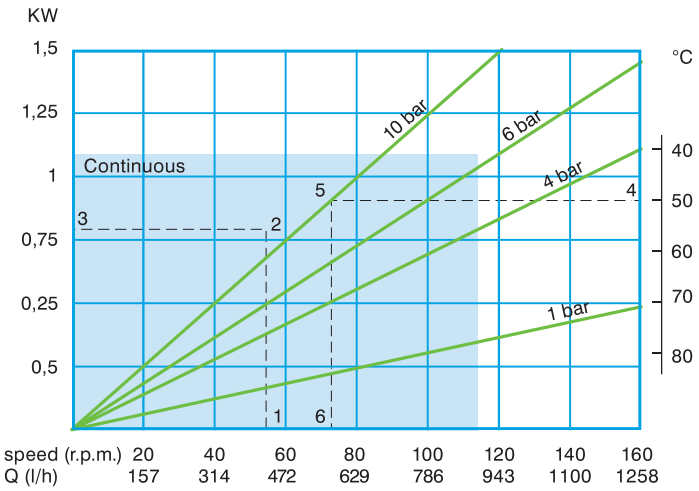
ASP 10



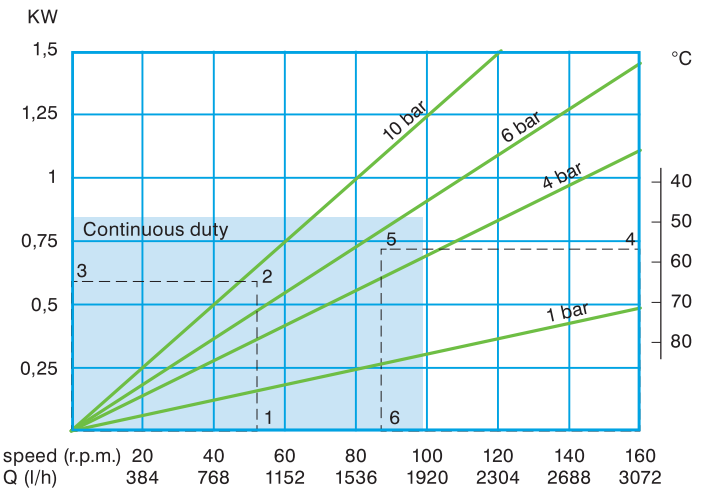
ASP 15



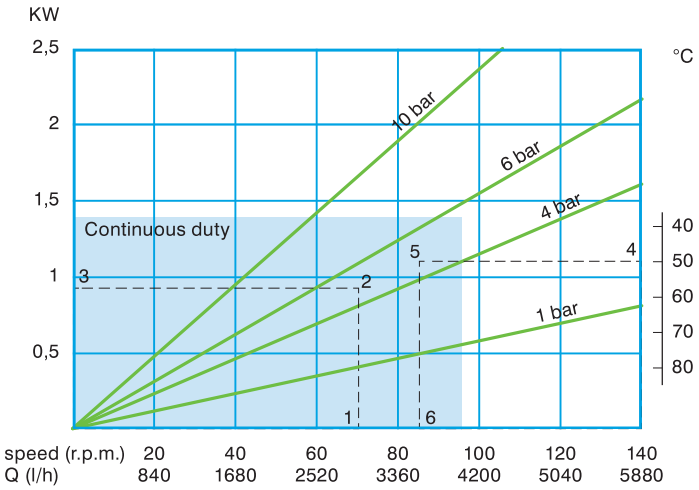
ASP 20



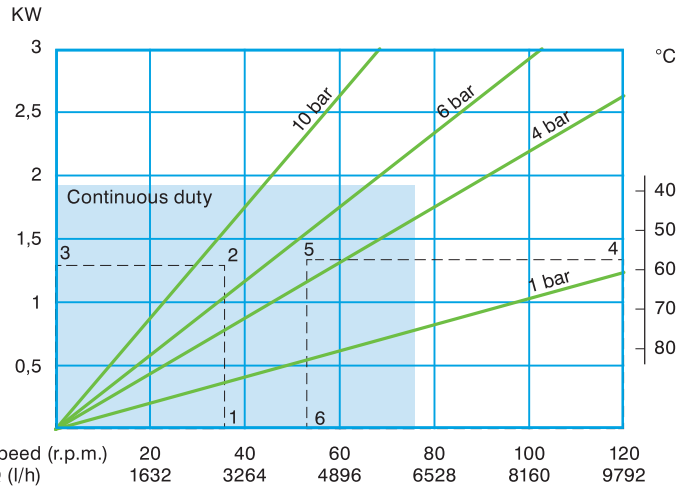
ASP 25



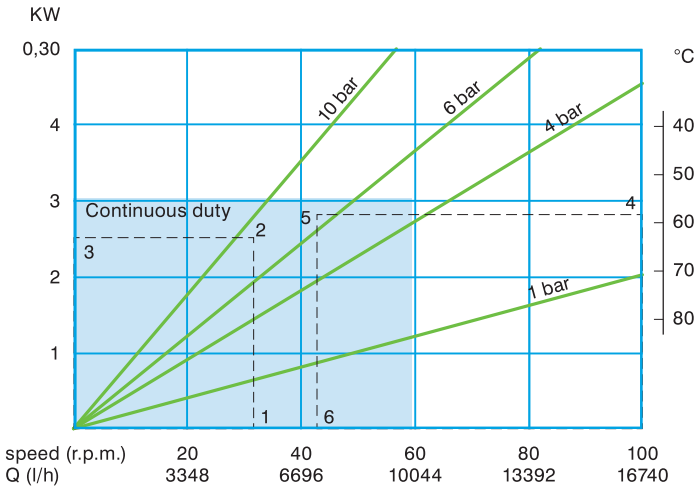
ASP 32



ASP 40



ASP 50



ASP 65