

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Rometec s.r.l.

VIA F.ROSSI 1000, 00120 ROMA

Tel. 065061635 – Fax 065061542

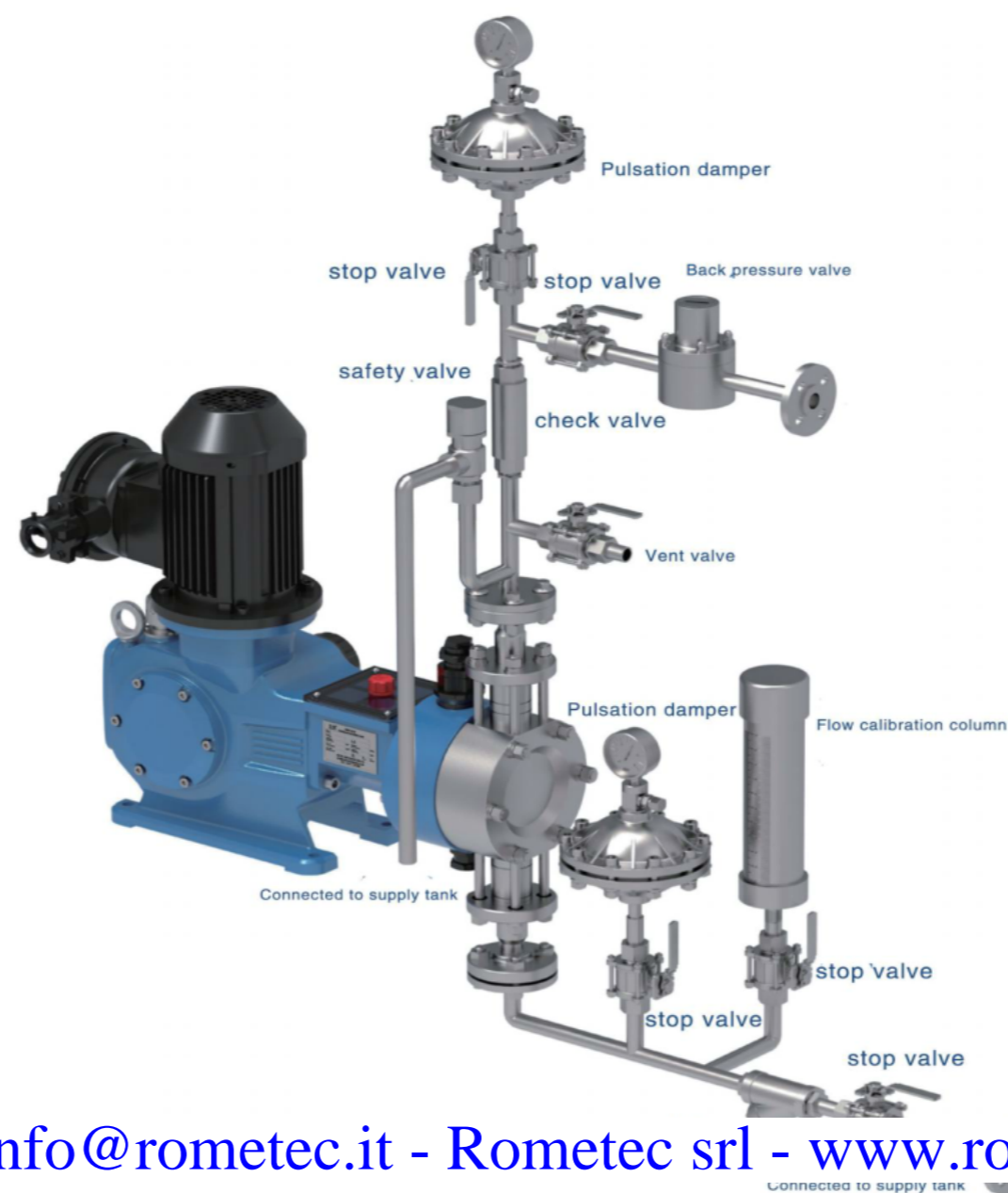
Sito web: www.rometec.it – email: info@rometec.it

P. IVA 04120621000 - CCIAA RM 736916

Reg. Soc. Tribunale RM 9229/91 - Cap. soc. 46'482,00 €



POMPE DOSATRICI



Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

CONTENTS

Directory

A



Plunger metering pumps 01-15

B



Hydraulic diaphragm metering pumps 16-28

C



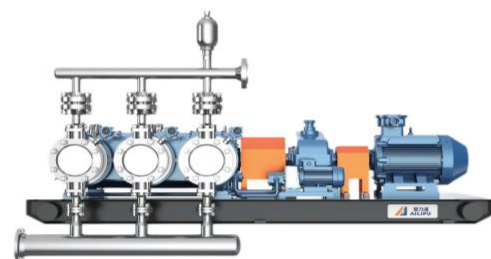
Mechanical diaphragm metering pumps 29-43

D



Electromagnetic diaphragm metering pumps 44-50

E



Diaphragm pump

F



Injection Pump

G



H





Product Overview

The hydraulic end of the pump forms the working chamber with the aid of a plunger, and the volume of the working chamber changes periodically through the reciprocating movement of the plunger.

Function

- 1.The diameter of the plunger should not be too large, generally D=3-200mm.
- 2.The discharge pressure of the plunger pump is high, which is suitable for making high pressure pump (can meet 100MPa pressure delivery).
- 3.It can transport high viscosity media, and is not recommended transport corrosive slurries and dangerous chemicals.
- 4.The plunger is sealed with packing, so there will be leakage, and the sealing gap is required periodically adjustment. Packing and plunger are wearable parts of the pump..
- 5.High flow accuracy and great stability. In the range of 10%-100% of the stroke, the accuracy of measurement can reach $\pm 1\%$. Good flow stability when the pressure changes.High flow accuracy and good stability. In the range of 10%-100% of the stroke, the accuracy of measurement can reach $\pm 1\%$. Good flow stability when the pressure changes.
- 6.Good suction performance and self-priming performance, suitable for dosing high viscosity media or inlet with negative pressure applications.
- 7.No safety relief device, and need to install safety valve in the pump outlet line.
- 8.Simple structure, easy maintenance, good cost-effectiveness.
- 9.The flow rate can be changed by adjusting the stroke length or changing the motor frequency; if equipped with a stroke controller or digital controller, it is convenient to achieve automatic adjustment or remote control.

Applications

The products are widely used in petrochemical, oil & gas, chemical,power, nuclear, mining, medicine, food and other fields, and are indispensable pump type for precise dosing in modern industry. Especially popular in the process of transporting various liquid media of high viscosity, high pressure, high temperature and extruding polystyrene (XPS) foam industry in the process of carbon dioxide, butane, Freon filling, etc.

J
Metering
Pump

R
C
L

1	Rated Pressure Mpa	S	Pump Material S-304 L-316L C- HastelloyC H-20#Alloy T-Titanium Alloy Q-Carbon Steel	H Connection H-Union, weld Connection R-house connector F-Flange P-NPT Thread M-Metric Thread G-Taper Pipe Thread Q-Hard Pipe Socked T-Ferrule	K Flow Regulation S-Manual D-Auto Stroke Controller K-Digital Controller	B Motor B-Explosion Proof P-Variable Frequency BP-Explosion-Proof with Variable Frequency O-Standard	D Pump Head D-Electrical Heating T- Heating Jacket N-High Viscosity

 Selection parameters



High flow accuracy and great stability. In the range of 10%-100% of the stroke, the accuracy of measurement can reach $\pm 1\%$. The flow rate is stable when the pressure changes.

Flow rate adjustment mechanism: H-shape shaft adjustment mechanism, good linear adjustment. The flow rate can be changed by adjusting the stroke length or changing the motor frequency; if equipped with a stroke controller or digital controller, it is convenient to achieve automatic adjustment or remote control.

The motor stands on top of the gearbox to avoid leakage of lubricant and to improve transmission reliability.

The pump has good suction and self-priming properties and is suitable for transferring high viscosity medium or for applications with negative inlet pressure.

The sealing face of the inlet and outlet valves is provided with tongue and groove type reliable sealing.

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
J1.6-0.25/40	0.25	40	5	7	45	0.55	Φ6 Cutting Sleeve Φ8 Cutting Sleeve	60
J1.6-0.25/20		20				0.37		
J1.6-0.3/40	0.3	40			58	0.55		
J1.6-0.3/20		20		0.37				
J1.6-0.5/40	0.5	40		12.5	45	0.55		
J1.6-0.5/20		20				0.37		
J1.6-0.63/40	0.63	40	58		0.55			
J1.6-0.63/20		20		0.37				
J1.6-0.75/40	0.75	40	6	12.5	45	0.55		
J1.6-0.75/20		20				0.37		
J1.6-1.0/40	1	40		58	0.55			
J1.6-1.0/20		20	0.37					
J1.6-1.5/32	1.5	32	8	12.5	45	0.55		
J1.6-1.5/16		16				0.37		
J1.6-2.0/32	2	32		58	0.55			
J1.6-2.0/16		16	0.37					
J1.6-2.4/20	2.4	20	10	12.5	45	0.55		
J1.6-2.4/10		10				0.37		
J1.6-3.0/20	3	20		58	0.55			
J1.6-3.0/10		10	0.37					
J1.6-3.5/12.5	3.5	12.5	12	12.5	45	0.55		
J1.6-3.5/6.3		6.3				0.37		
J1.6-4.5/12.5	4.5	12.5		58	0.55			
J1.6-4.5/6.3		6.3	0.37					

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
J1.6-5.6/32	5.6	32	8	20	106	0.55	DN10	60
J1.6-5.6/16		16				0.37		
J1.6-7.2/25	7.2	25			135	0.55		
J1.6-7.2/12.5		12.5				0.37		
J1.6-8.5/32	8.5	32	168		0.75			
J1.6-9.0/20	9	20	106		0.55			
J1.6-9.0/10		10			0.37			
J1.6-11.5/16	11.5	16	135		0.55			
J1.6-11.5/8		8			0.37			
J1.6-13/20	13	20	168		0.75			
J1.6-13/12.5	13	12.5	106		0.55			
J1.6-13/6.3		6.3			0.37			
J1.6-16.5/10	16.5	10	135	0.55				
J1.6-16.5/5		5		0.37				
J1.6-20/12.5	20	12.5	168	0.75				
J1.6-23/8	23	8	106	0.55				
J1.6-23/4		4		0.37				
J1.6-30/6.3	30	6.3	135	0.55				
J1.6-30/3		3.2		0.75				
J1.6-36/8	36	8	168	0.75				
J1.6-36/5	36	5	106	0.55				
J1.6-36/2.5		2.5		0.37				
J1.6-46/4	46	4	135	0.55				
J1.6-46/2		2		0.37				
J1.6-58/4.5	58	4.5	168	1.1				
J1.6-58/3.2	58	3.2	106	0.55				
J1.6-58/1.6		1.6		0.37				
J1.6-72/2.5	72	2.5	135	0.55				
J1.6-72/1.3		1.3		0.37				
J1.6-90/3	90	3	168	0.75				
J1.6-80/2.2	80	2.2	106	0.55				
J1.6-80/1		1		0.37				
J1.6-105/1.6	105	1.6	135	0.55				
J1.6-105/0.8		0.8		0.37				
J1.6-130/2	130	2	168	0.75				
J1.6-95/2	95	2	106	0.55				
J1.6-95/1		1		0.37				
J1.6-120/1.6	120	1.6	135	0.55				
J1.6-120/0.8		0.8		0.37				
J1.6-150/1.6	150	1.5	135	0.75				
J1.6-150/1.3		1.3		0.55				
J1.6-150/0.8		0.8		0.37				
J1.6-190/1.3	190	1.3	168	0.75				
J1.6-190/1.25	190	1.25	135	0.75				
J1.6-190/1.0		1		0.55				
J1.6-190/0.63		0.63		0.37				

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
J3.0-6.5/45	6.5	45	8	28	96	1.1	Ø8 Cutting Sleeve	75
J3.0-6.5/32		32				0.75		
J3.0-10/40	10	40			140	1.1		
J3.0-10/25		25				0.75		
J3.0-11/30	11	30	96		1.1			
J3.0-11/20		20			0.75			
J3.0-16/25	16	25	140		1.1			
J3.0-16/16		16			0.75			
J3.0-24/20	24	20	140		1.1			
J3.0-24/10		10			0.75			
J3.0-30/12.5	30	12.5	96		1.1			
J3.0-30/8		8			0.75			
J3.0-42/10	42	10	140	1.1				
J3.0-42/6.3		6.3		0.75				
J3.0-45/8	45	8	96	1.1				
J3.0-45/5		5		0.75				
J3.0-68/6.0	68	6	140	1.1				
J3.0-68/4		4		0.75				
J3.0-72/6	72	6	96	1.1				
J3.0-72/3.2		3.2		0.75				
J3.0-105/4	105	4	140	1.1				
J3.0-105/2.5		2.5		0.75				
J3.0-120/3.2	120	3.2	96	1.1				
J3.0-120/2.2		2.2		0.75				
J3.0-175/2.2	175	2.2	140	1.1				
J3.0-175/1.5		1.5		0.75				
J3.0-150/2.5	150	2.5	96	1.1				
J3.0-150/1.6		1.6		0.75				
J3.0-220/2	220	2	140	1.1				
J3.0-220/1.5		1.5		0.75				
J3.0-185/2.2	185	2.2	96	1.1				
J3.0-185/1.4		1.4		0.75				
J3.0-270/1.6	270	1.6	140	1.1				
J3.0-270/1.0		1		0.75				
J3.0-240/1.6	240	1.6	96	1.1				
J3.0-240/1.0		1		0.75				
J3.0-350/1.2	350	1.2	140	1.1				
J3.0-350/0.8		0.8		0.75				
J3.0-420/1.3	420	1.3	140	1.5				
J3.0-420/1.0		1		1.1				
J3.0-420/0.63		0.63		0.75				

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
 2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
J1.6-5.6/32	5.6	32	8	20	106	0.55	DN10	60
J1.6-5.6/16		16				0.37		
J1.6-7.2/25	7.2	25			135	0.55		
J1.6-7.2/12.5		12.5				0.37		
J1.6-8.5/32	8.5	32	10		168	0.75		
J1.6-9.0/20	9	20				106		
J1.6-9.0/10		10	0.37					
J1.6-11.5/16	11.5	16	135		0.55			
J1.6-11.5/8		8			0.37			
J1.6-13/20	13	20	168		0.75			
J1.6-13/12.5	13	12.5				106		
J1.6-13/6.3		6.3	0.37					
J1.6-16.5/10	16.5	10	135	0.55				
J1.6-16.5/5		5		0.37				
J1.6-20/12.5	20	12.5	168	0.75				
J1.6-23/8	23	8			106	0.55		
J1.6-23/4		4	0.37					
J1.6-30/6.3	30	6.3	135	0.55				
J1.6-30/3		3.2		0.75				
J1.6-36/8	36	8	168	0.75				
J1.6-36/5	36	5			106	0.55		
J1.6-36/2.5		2.5	0.37					
J1.6-46/4	46	4	135	0.55				
J1.6-46/2		2		0.37				
J1.6-58/4.5	58	4.5	168	1.1				
J1.6-58/3.2	58	3.2			106	0.55		
J1.6-58/1.6		1.6	0.37					
J1.6-72/2.5	72	2.5	135	0.55				
J1.6-72/1.3		1.3		0.37				
J1.6-90/3	90	3	168	0.75				
J1.6-80/2.2	80	2.2			106	0.55		
J1.6-80/1		1	0.37					
J1.6-105/1.6	105	1.6	135	0.55				
J1.6-105/0.8		0.8		0.37				
J1.6-130/2	130	2	168	0.75				
J1.6-95/2	95	2			106	0.55		
J1.6-95/1		1	0.37					
J1.6-120/1.6	120	1.6	135	0.55				
J1.6-120/0.8		0.8		0.37				
J1.6-150/1.6	150	1.5	135	0.75				
J1.6-150/1.3		1.3		0.55				
J1.6-150/0.8	150	0.8	168	0.37				
J1.6-190/1.3		190		1.3	168	0.75		
J1.6-190/1.25	190	1.25	135	0.75				
J1.6-190/1.0		1		0.55	135	0.55		
J1.6-190/0.63	0.63	0.37	DN20	0.37				

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
J3.0-6.5/45	6.5	45	8	28	96	1.1	Ø8 Cutting Sleeve	75
J3.0-6.5/32		32				0.75		
J3.0-10/40	10	40			140	1.1		
J3.0-10/25		25				0.75		
J3.0-11/30	11	30	10		96	1.1		
J3.0-11/20		20				0.75		
J3.0-16/25	16	25	140		1.1			
J3.0-16/16		16			0.75			
J3.0-24/20	24	20	12		140	1.1		
J3.0-24/10		10				0.75		
J3.0-30/12.5	30	12.5	16		96	1.1		
J3.0-30/8		8				0.75		
J3.0-42/10	42	10	20	140	1.1			
J3.0-42/6.3		6.3			0.75			
J3.0-45/8	45	8	20	96	1.1			
J3.0-45/5		5			0.75			
J3.0-68/6.0	68	6	140	1.1				
J3.0-68/4		4		0.75				
J3.0-72/6	72	6	25	96	1.1			
J3.0-72/3.2		3.2			0.75			
J3.0-105/4	105	4	32	140	1.1			
J3.0-105/2.5		2.5			0.75			
J3.0-120/3.2	120	3.2	32	96	1.1			
J3.0-120/2.2		2.2			0.75			
J3.0-175/2.2	175	2.2	36	140	1.1			
J3.0-175/1.5		1.5			0.75			
J3.0-150/2.5	150	2.5	40	96	1.1			
J3.0-150/1.6		1.6			0.75			
J3.0-220/2	220	2	45	140	1.1			
J3.0-220/1.5		1.5			0.75			
J3.0-185/2.2	185	2.2	50	96	1.1			
J3.0-185/1.4		1.4			0.75			
J3.0-270/1.6	270	1.6	50	140	1.1			
J3.0-270/1.0		1			0.75			
J3.0-240/1.6	240	1.6	50	96	1.1			
J3.0-240/1.0		1			0.75			
J3.0-350/1.2	350	1.2	50	140	1.1			
J3.0-350/0.8		0.8			0.75			
J3.0-420/1.3	420	1.3	50	140	1.5			
J3.0-420/1.0		1			1.1			
J3.0-420/0.63	0.63	0.75	DN25	0.75				

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	discharge connection size	Weight (Kg)
J25-160/32	160	32	20	80	120	7.5	DN15	700
J25-200/50	200	50	25		96	11		
J25-200/25		25				7.5		
J25-250/40	250	40			120	11		
J25-250/20		20				7.5		
J25-310/50	310	50	32		147	15	DN20	
J25-320/32	320	32			96	11		
J25-320/16		16				7.5		
J25-400/25	400	25			120	11		
J25-400/12.5		12.5	7.5					
J25-500/25	500	25	40		147	15	DN25	
J25-500/20	500	20			96	11		
J25-500/10		10				7.5		
J25-640/16	640	16			120	11		
J25-640/8		8	7.5					
J25-800/16	800	20	50		147	15	DN32	
J25-800/12.5	800	12.5			96	11		
J25-800/6.3		6.3				7.5		
J25-1000/10	1000	10			120	11		
J25-1000/5		5	7.5					
J25-1260/10	1260	12.5	63		147	15	DN40	
J25-1260/8	1260	8			96	11		
J25-1260/4		4				7.5		
J25-1600/6.3	1600	6.3			120	11		
J25-1600/3.2		3.2	7.5					
J25-2000/6.3	2000	8	80		147	15	DN50	
J25-2000/5	2000	5			96	11		
J25-2000/2.5		2.5				7.5		
J25-2500/4	2500	4			120	11		
J25-2500/2		2	7.5					
J25-3200/4	3200	5	100		147	15	DN65	
J25-3200/3.2	3200	3.2			96	11		
J25-3200/1.6		1.6				7.5		
J25-4000/2.5	4000	2.5			120	11		
J25-4000/1.3		1.3	7.5					
J25-5000/3.2	5000	3.2	125		150	15	DN80	
J25-5000/2	5000	2			96	11		
J25-5000/1		1				7.5		
J25-6300/1.6	6300	1.6			120	11		
J25-6300/0.8		0.8	7.5					
J25-8000/2	8000	2	140	150	15	DN100		
J25-8000/1.6	8000	1.6		120	15			
J25-8000/1.25		1.25			11			
J25-8000/0.63	0.63	7.5						
J25-10000/1.6	10000	1.25	160	150	15	DN125		
J25-10000/1.2	10000	1.2		120	15			
J25-10000/1.0		1.0			11			
J25-10000/0.5	0.5	7.5						
J25-12500/1	12500	1	180	147	15	DN150		
J25-12500/0.8	12500	0.8		120	11			
J25-12500/0.4		0.4			7.5			
J25-16000/0.8	16000	0.8		147	15			
J25-16000/0.63	16000	0.63	120	11				
J25-16000/0.32		0.32		7.5				
J25-20000/0.63	20000	0.63	147	15				

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size
J50-320/50	320	50	25	100	120	15	DN25
J50-380/50	380		144		18.5		
J50-500/50	500		120		22		
J50-600/50	600		144		30		
J50-650/40	650	40	36	120	22	DN32	
J50-800/40	800	32	40	120	30		
J50-800/32				22			
J50-1000/32	1000	25	144	30			
J50-1000/25	1250	20	50	120	30	DN40	
J50-1250/25				22			
J50-1250/20				144	30		
J50-1500/20				22			
J50-1500/16	1500	16	63	144	30	DN50	
J50-2000/16	2000	12.5		80	120		30
J50-2000/12.5					22		
J50-2500/12.5	2500	10		144	30		
J50-2500/10	3200	8	80	120	22	DN65	
J50-3200/10				30			
J50-3200/8				22			
J50-4000/8				144	30		
J50-4000/6.3	4000	6.3	100	120	22	DN80	
J50-5000/6.3	5000	5		125	30		
J50-5000/5					22		
J50-6300/5	6300	4		144	30		
J50-6300/4	8000	3.2	140	120	22	DN100	
J50-8000/4				30			
J50-8000/3.2				22			
J50-10000/3.2				10000	2.5		120
J50-10000/2.5	12000	2.5	160	37	DN125		
J50-12000/3.2				30			
J50-12000/2.5				22			
J50-12000/2				37			
J50-16000/2.5	16000	2	180	144	30		
J50-16000/2				22			
J50-16000/1.5				37			
J50-20000/2				20000	1.6	120	30
J50-20000/1.6	20000	1.2	200	37	DN150		
J50-20000/1.2				22			
J50-25000/1.6	25000	1.3	200	30			
J50-25000/1.3				22			
J50-25000/1.1	25000	1.1	200	22			

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

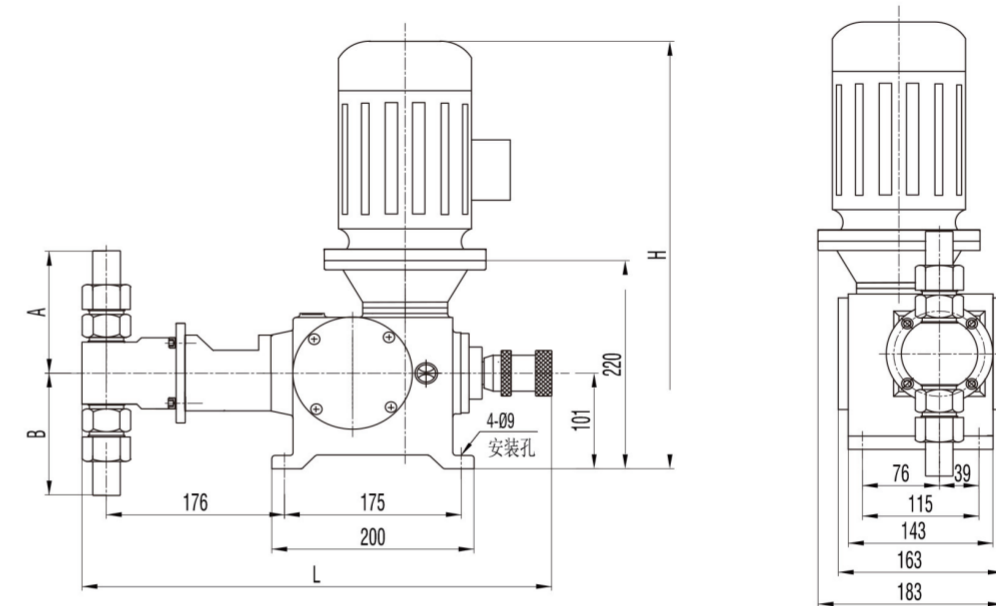
Model	flow rate(L/h)			pressure (Mpa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power(KW)			Inlet and outlet diameter (mm)	Weight(Kg)		
	J-X	2J-X	3J-X					J-X	2J-X	3J-X		J-X	2J-X	3J-X
J-X □ /32	3.8	7.6	11.4	32	8	20	72	0.55	0.75	0.75	Ø6 Cutting Sleeve	45	66	52
J-X □ /16				0.37				0.55	0.55					
J-X □ /25	5.0	10	15	25			96	0.55	0.75	0.75				
J-X □ /12.5				0.37				0.55	0.55					
J-X □ /20	6.3	12.6	18.9	20			72	0.55	0.75	0.75				
J-X □ /10				0.37				0.55	0.55					
J-X □ /16				0.55				0.75	0.75					
J-X □ /8	8.0	16	24	8			96	0.37	0.55	0.55				
J-X □ /12.5				0.55				0.75	0.75					
J-X □ /6.3	9	18	27	12.5			72	0.37	0.55	0.55				
J-X □ /10				0.55				0.75	0.75					
J-X □ /5				0.37				0.55	0.55					
J-X □ /8	16	32	48	8			72	0.55	0.75	0.75				
J-X □ /4				0.37				0.55	0.55					
J-X □ /6.3	20	40	60	6.3			96	0.55	0.75	0.75				
J-X □ /3.2				0.37				0.55	0.55					
J-X □ /5	25	50	75	5	72	0.55	0.75	0.75						
J-X □ /2.5				0.37		0.55	0.55							
J-X □ /4	32	64	96	4	96	0.55	0.75	0.75						
J-X □ /2				0.37		0.55	0.55							
J-X □ /3.2	40	80	120	3.2	72	0.55	0.75	0.75						
J-X □ /1.6				0.37		0.55	0.55							
J-X □ /2.5	50	100	150	2.5	96	0.55	0.75	0.75						
J-X □ /1.3				0.37		0.55	0.55							
J-X □ /2.2	55	110	165	2.2	72	0.55	0.75	0.75						
J-X □ /1.1				0.37		0.55	0.55							
J-X □ /1.6	75	150	225	1.6	96	0.55	0.75	0.75						
J-X □ /0.8				0.37		0.55	0.55							
J-X □ /1.2	105	210	315	1.2	140	0.55	0.75	0.75						
J-X □ /0.6				0.37		0.55	0.55							
J-X □ /2	63	126	189	2	72	0.55	0.75	0.75						
J-X □ /1.0				0.37		0.55	0.55							
J-X □ /1.5	84	168	252	1.5	96	0.55	0.75	0.75						
J-X □ /0.8				0.37		0.55	0.55							
J-X □ /1.1	120	240	360	1.1	140	0.55	0.75	0.75						
J-X □ /0.6				0.37		0.55	0.55							
J-X □ /1.5	155	310	465	1.5	140	0.75	1.1	1.5						
J-X □ /0.8				0.55		0.75	0.75							
J-X □ /0.4	190	380	570	0.4	140	0.37	0.55	0.55						
J-X □ /1.2				0.75		1.1	1.5							
J-X □ /0.63	190	380	570	0.63	140	0.55	0.75	0.75						
J-X □ /0.32				0.37		0.55	0.55							

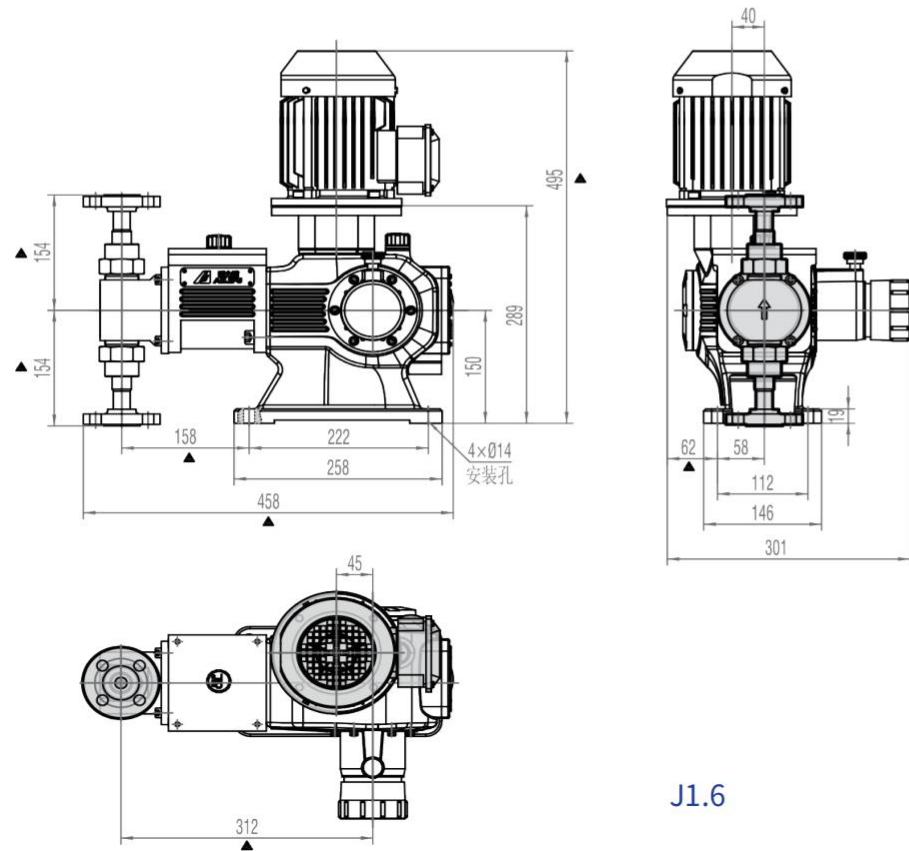
Model	flow rate(L/h)			pressure (Mpa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power(KW)			Inlet and outlet diameter (mm)	Weight(Kg)						
	J-X	2J-X	3J-X					J-X	2J-X	3J-X		J-X	2J-X	3J-X				
J-X □ /30	0.25	0.5	0.75	30	5	10	30	0.18-6	0.37-6	0.37-6	Ø6 Cutting Sleeve	32	63	48				
J-X □ /30	0.4	0.8	1.2					0.18-6	0.37-6	0.37-6								
J-X □ /30	0.65	1.3	1.95					0.18	0.37	0.55								
J-X □ /30	0.6	1.2	1.8					0.18	0.37	0.55								
J-X □ /30	1	2	3					0.37	0.55	0.55								
J-X □ /30	1.8	3.6	5.4					0.37	0.55	0.55								
J-X □ /30	2.8	5.6	8.4		0.37	0.75	0.75											
J-X □ /20	3	6	9		20	10	48	0.37	0.55	0.55								
J-X □ /20	4.5	9	13.5				72	0.37	0.75	0.75								
J-X □ /12.5	6.5	13	19.5				72	0.37	0.75	0.75								
J-X □ /12.5	6.5	13	19.5		12.5	12	72	0.37	0.75	0.75					Ø8 Cutting Sleeve			

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
 2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Outline Dimension and installation reference size

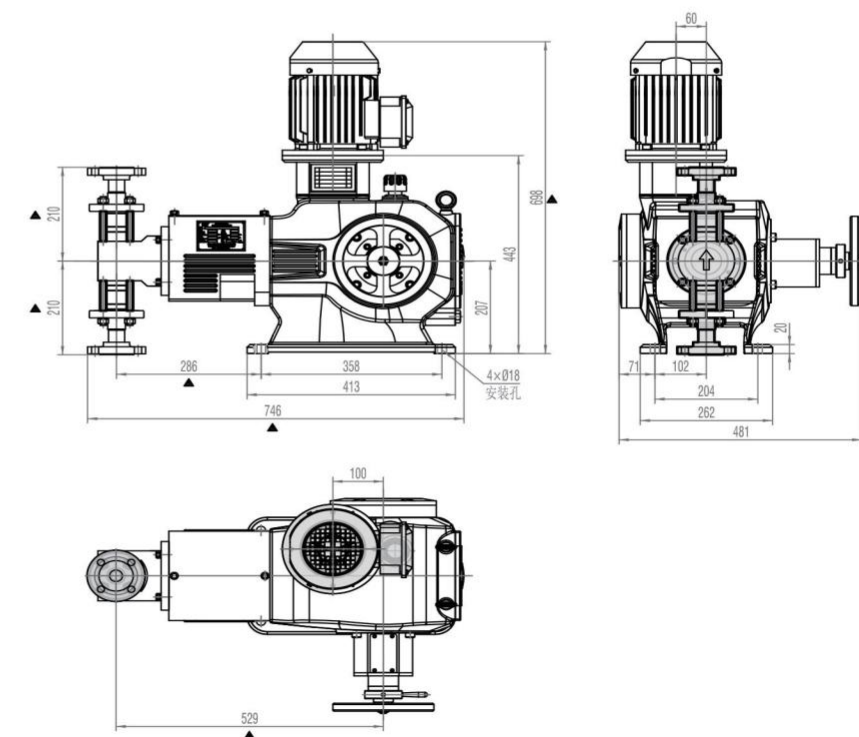
The size with '△' is the reference size. The specific size is shown in the design drawing





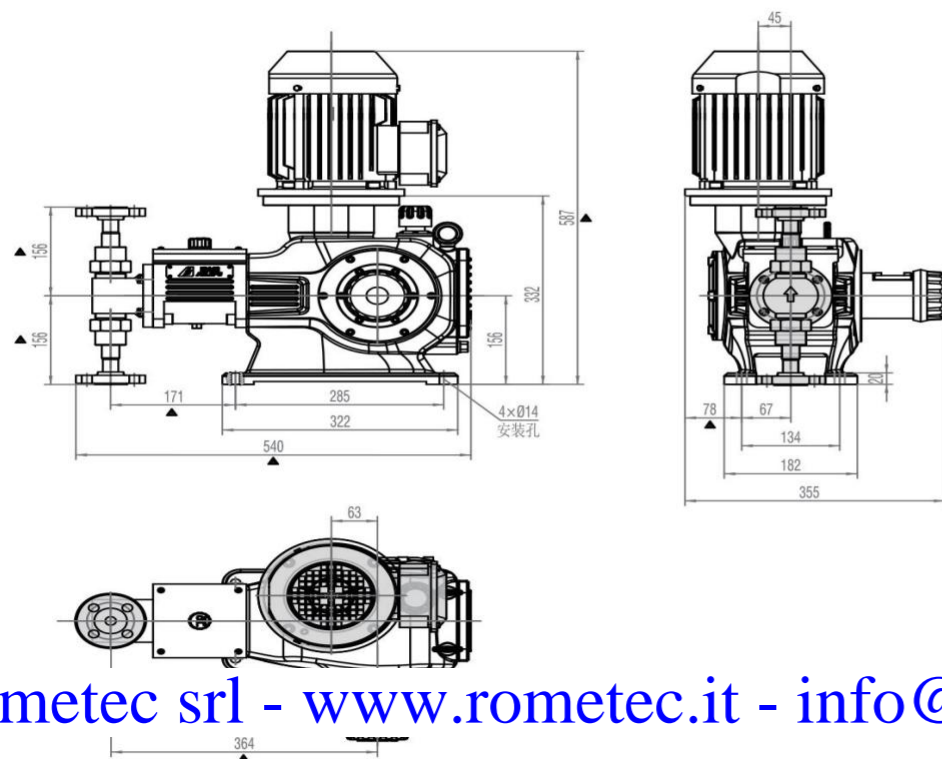
J1.6

The size with '▲' is the reference size. The specific size is shown in the design drawing

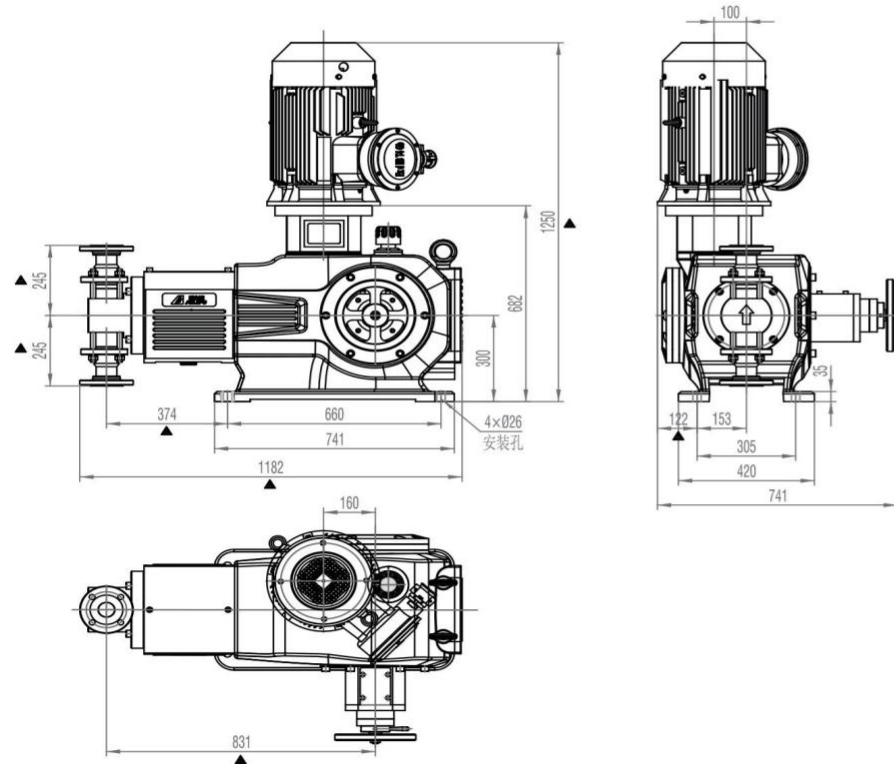


J5.0

The size with '▲' is the reference size. The specific size is shown in the design drawing

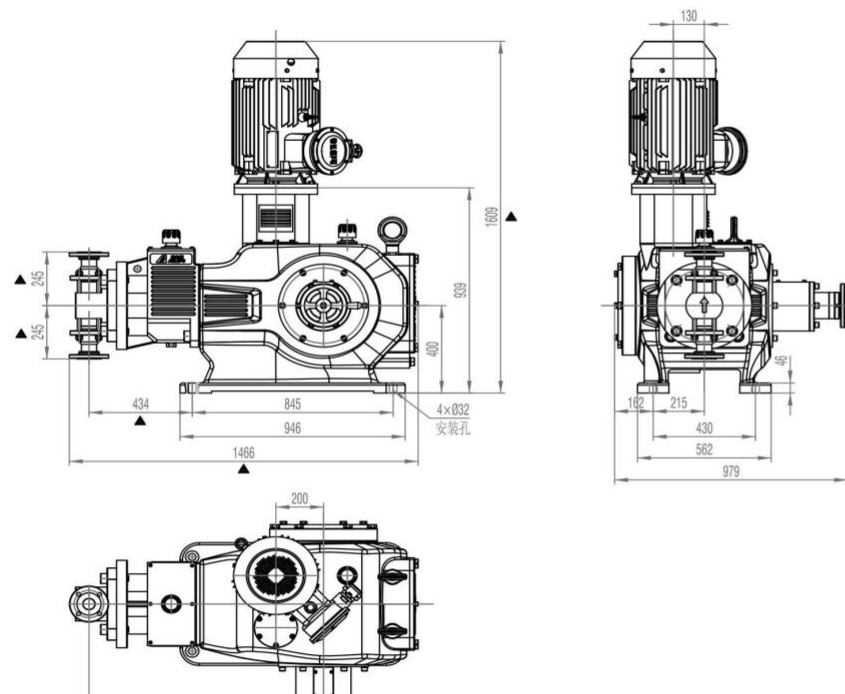


J12.5



J25

The size with '△' is the reference size. The specific size is shown in the design drawing



J50

B

The hydraulic end of the pump with the help of the diaphragm to form the working chamber, the diaphragm periodic deformation to replace the reciprocating motion of the plunger (piston) pump, called the diaphragm pump. Diaphragm cyclic deformation is achieved with the help of the plunger (piston) in the hydraulic working chamber reciprocating motion to produce hydraulic drive diaphragm metering pump, called hydraulic diaphragm metering pump.

Function

- 1.No dynamic seal, no leakage, and easy maintenance. Built-in hydraulic safety valve will automatically open when the process pipeline is blocked , to protect the pump and pipeline.
- 2.Working pressure up to 80MPa, metering accuracy can reach±1%; single cylinder pump flow range: 0.2L/h-16000L/h.
- 3.Metering accuracy is better than mechanical diaphragm pump; sealing performance is better than plunger pump.
4. Flow rate control is achieved by adjusting the stroke length and variable frequency speed, if equipped with a stroke/digital controller or frequency converter, it is convenient to achieve remote automatic control.
5. The temperature of the medium should be -30°C~120 ° C. When the temperature is 120 ~ 280°C, special structure and design is required, otherwise the life of the diaphragm will be compromised.
6. The new three-valve structure (safety valve, exhaust valve and oil filling valve), in which the application of the limiting oil filling mechanism avoids over-filling and increases the diaphragm life to more than 8000h.
7. When dosing special medium, double diaphragms with diaphragm rupture alarm device can be used to prevent accidents caused by the mixing of medium and hydraulic oil when the diaphragm ruptures.

Hydraulic end wetted parts

The products are widely used in petrochemical, oil & gas, chemical, power, nuclear, mining, medicine, food and other fields, and are indispensable pump type for precise dosing in modern industry. Especially popular in the process of transporting various liquid media of high viscosity, high pressure, high temperature and extruding polystyrene (XPS) foam industry in the process of carbon dioxide, butane, Freon filling, etc.

50
Rated Capacity /h

1
Rated Pressure Mpa

S
Pump Material

- S-304
- L-316L
- C-Hastelloy C
- H-20#Alloy
- T-Titanium Alloy
- P-pvc
- T-PTFE
- V-PVDF
- Q-Carbon Steel

H
Connection

- H-Union, weld Connection
- R-house connector
- F-Flange
- P-NPT Thread
- M-Metric Thread
- G-Taper Pipe Thread
- Q-Hard Pipe Socked
- T-Ferrule

K
Flow Regulation

- S-Manual Controller
- D-Auto Stroke Controller
- K-Digital Controller

B
Motor

- B-Explosion Proof
- P-Variable Frequency
- BP-Explosion-Proof with Variable Frequency
- O-Standard

D
Pump Head

- D-Electrical Heating Jacket
- T-Heating Jacket
- N-High Viscosity

N
Diaphragm Rupture Alarm

- N- Alarm gauge
- YB- Alarm Light
- YC-
- YD-

Model Specification

The motor stands on top of the gearbox to avoid leakage of lubricant and to improve transmission reliability.

Working pressure up to 80MPa, metering accuracy can reach $\pm 1\%$; single cylinder pump flow range 0.2L/h-16000L/h.

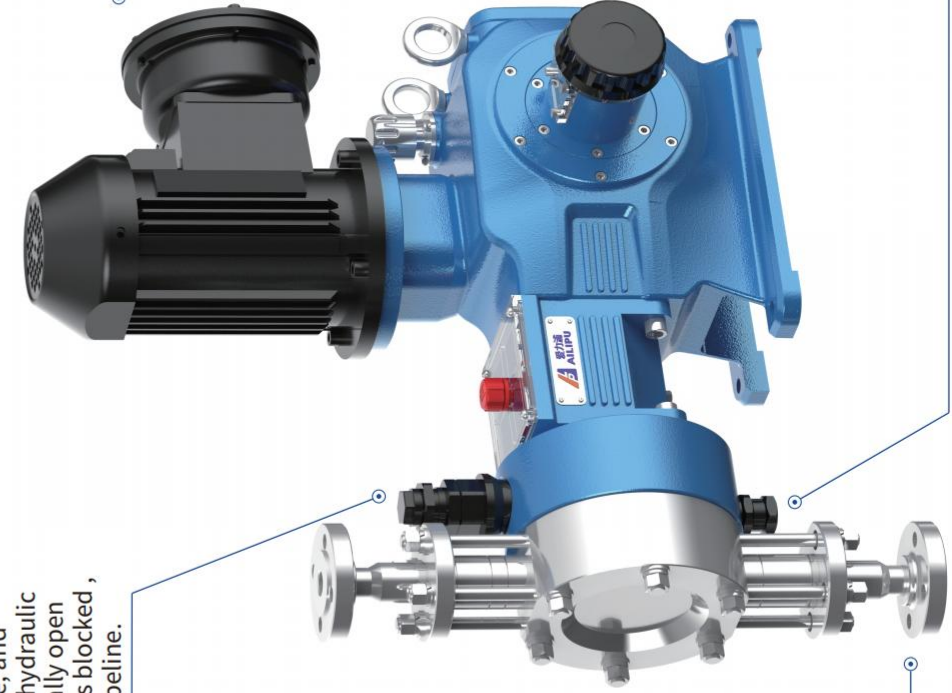
Flow rate adjustment mechanism: H-shaft adjustment mechanism, good linearity; the stroke length or changing the motor speed equipped with a stroke controller or digital controller, it is convenient to achieve automatic adjusting accuracy; if equipped with a stroke controller or digital controller, it is convenient to achieve automatic adjusting accuracy; if equipped with a stroke controller or digital controller, it is convenient to achieve automatic adjusting accuracy.

No dynamic seal, no leakage, and easy maintenance. Built-in hydraulic safety valve will automatically open when the process pipeline is blocked, to protect the pump and pipeline.

For dosing special medium, double diaphragms with diaphragm rupture device can be used to prevent accidents caused by the mixing of medium and hydraulic oil when the diaphragm ruptures.

And outlet valve sealing surfaces are provided with tongues and grooves for reliable sealing.

The new three-valve structure (safety valve, deflation valve, oil refilling valve), in which the application of the limit oil filler mechanism avoids over-filling and increases the diaphragm life to more than 8000h.



Selection parameters

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)	
JYM1.6-0.25/10	0.25	10	6	7	45	0.37	Φ6 Cutting Sleeve	70	
JYM1.6-0.35/10	0.35	10			58	0.37			
JYM1.6-0.45/10	0.45	10		12.5	45	0.37			
JYM1.6-0.6/10	0.6	10			58	0.37			
JYM1.6-0.35/20	0.35	20	8	7	30	0.37-6			
JYM1.6-0.55/20	0.55	20			45	0.37			
JYM1.6-0.7/20	0.7	20		58	0.37				
JYM1.6-1.0/20	1	20		12.5	45	0.55			
JYM1.6-1.0/32	1	32	58		0.55				
JYM1.6-1.6/20	1.6	20	10	12.5	45	0.55			Φ8 Cutting Sleeve
JYM1.6-1.6/10		10			0.37				
JYM1.6-2.4/20	2.4	20		58	0.55				
JYM1.6-2.4/10		10				0.37			
JYM1.6-3.2/12.5	3.2	12.5	12	12.5	45	0.55			
JYM1.6-3.2/6.3		6.3			0.37				
JYM1.6-4.1/12.5	4.1	12.5		58	0.55				
JYM1.6-4.1/6.3		6.3				0.37			

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
 2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
JYM1.6-3/32	3	32	8	20	106	0.55	Ø6 Cutting Sleeve	85
JYM1.6-3/16		16				0.37		
JYM1.6-4.5/25	4.5	25			135	0.55		
JYM1.6-4.5/12.5		12.5				0.37		
JYM1.6-5.5/32	5.5	32	168		0.55			
JYM1.6-6/20	6	20			106	0.55		
JYM1.6-6/10		10	0.37					
JYM1.6-8/16	8	16	135		0.55			
JYM1.6-8/8		8			0.37			
JYM1.6-10/20	10	20	168		0.55			
JYM1.6-11.5/12.5	11.5	12.5			106	0.55		
JYM1.6-11.5/6.3		6.3	0.37					
JYM1.6-15/10	15	10	135		0.55			
JYM1.6-15/5		5			0.37			
JYM1.6-18/12.5	18	12.5	168		0.75			
JYM1.6-22/8	22	8			106	0.55		
JYM1.6-22/4		4	0.37					
JYM1.6-28/6.3	28	6.3	135	0.55				
JYM1.6-28/3.2		3.2		0.37				
JYM1.6-35/8	35	8	168	0.75				
JYM1.6-36/5	36	5		106	0.55			
JYM1.6-36/2.5		2.5	0.37					
JYM1.6-45/4	45	4	135	0.55				
JYM1.6-45/2		2		0.37				
JYM1.6-55/5	55	5	168	0.75				
JYM1.6-55/3.2		3.2		0.55				
JYM1.6-55/1.6		1.6		0.37				
JYM1.6-72/2.5		2.5		0.55				
JYM1.6-72/1.3	72	1.3	135	0.37				
JYM1.6-90/3		90		3	168	1.1		
JYM1.6-80/2.2	80	2.2	106	0.55				
JYM1.6-80/1		1		0.37				
JYM1.6-105/1.6	105	1.6	135	0.55				
JYM1.6-105/0.8		0.8		0.37				
JYM1.6-130/2	130	2	168	0.75				
JYM1.6-92/2	92	2		106	0.55			
JYM1.6-92/1		1	0.37					
JYM1.6-120/1.6	120	1.6	135	0.55				
JYM1.6-120/0.8		0.8		0.37				
JYM1.6-150/1.6	150	1.6	168	0.75				
JYM1.6-150/1.6		1.6		0.75				
JYM1.6-150/1.3		1.3		0.55				
JYM1.6-150/0.8		0.8		0.37				
JYM1.6-190/1.3	190	1.3	168	0.75				
JYM1.6-190/1.25	190	1.25		135	0.75			
JYM1.6-190/1		1	0.55					
JYM1.6-190/0.63	0.63	0.37						
JYM1.6-240/1	240	1	168	0.75				
JYM1.6-240/1.0	240	1		135	0.75			
JYM1.6-240/0.8		0.8			0.55			
JYM1.6-240/0.5	0.5	0.37						
JYM1.6-300/0.8	300	0.8	168	0.75				
JYM1.6-300/0.8	285	0.8		135	0.75			
JYM1.6-300/0.63		0.63	0.55					
JYM1.6-300/0.32		0.32	0.37					

connections at the same pressure.
 2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
JYM3.0-4/40	4	40	8	28	96	1.1	Ø6 Cutting Sleeve	120
JYM3.0-4/32		32						
JYM3.0-6/40	6	40						
JYM3.0-6/32		32						
JYM3.0-10/30	10	30	10					
JYM3.0-10/20		20						
JYM3.0-14/25	14	25			12			
JYM3.0-14/16		16						
JYM3.0-20/20	20	20	16					
JYM3.0-20/10		10						
JYM3.0-27/12.5	27	12.5			20			
JYM3.0-27/8		8						
JYM3.0-40/10	40	10	25					
JYM3.0-40/6.3		6.3						
JYM3.0-45/8	45	8		32				
JYM3.0-45/5		5						
JYM3.0-68/6	68	6	36					
JYM3.0-68/4		4						
JYM3.0-72/6	72	6		40				
JYM3.0-72/3.2		3.2						
JYM3.0-105/4	105	4	45					
JYM3.0-105/2.5		2.5						
JYM3.0-120/3.2	120	3.2		50				
JYM3.0-120/2.2		2.2						
JYM3.0-170/2.2	170	2.2	DN25					
JYM3.0-170/1.5		1.5						
JYM3.0-150/2.5	150	2.5		DN20				
JYM3.0-150/1.6		1.6						
JYM3.0-220/2	220	2	DN15					
JYM3.0-220/1.5		1.5						
JYM3.0-185/2.2	185	2.2		DN10				
JYM3.0-185/1.4		1.4						
JYM3.0-270/1.6	270	1.6	DN8					
JYM3.0-270/1		1						
JYM3.0-240/1.6	240	1.6		DN6				
JYM3.0-240/1		1						
JYM3.0-350/1.2	350	1.2	DN4					
JYM3.0-350/0.8		0.8						
JYM3.0-420/1.3	420	1.3		DN3				
JYM3.0-420/1		1						
JYM3.0-420/0.63		0.63						

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.
2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Model	rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	discharge connection size (mm)	Weight (Kg)
JYM5.0-10/40	10	40	12	32	102	0.75	Ø8 Cutting Sleeve	200
JYM5.0-16/32	16	32						
JYM5.0-16/25		25						
JYM5.0-21/32	21	32	14					
JYM5.0-21/16		16						
JYM5.0-28/25	28	25			16			
JYM5.0-28/12.5		12.5						
JYM5.0-30/32	30	32	20					
JYM5.0-32/25		25						
JYM5.0-32/12.5	32	12.5			25			
JYM5.0-40/20		20						
JYM5.0-40/10	40	10	32					
JYM5.0-45/25		25						
JYM5.0-50/16	50	16		40				
JYM5.0-50/8		8						
JYM5.0-63/12.5	63	12.5	50					
JYM5.0-63/6.3		6.3						
JYM5.0-75/16	75	16		60				
JYM5.0-80/10		10						
JYM5.0-80/5	80	5	80					
JYM5.0-100/8		8						
JYM5.0-100/4	100	4		90				
JYM5.0-120/10		10						
JYM5.0-125/6.3	125	6.3	95					
JYM5.0-125/3.2		3.2						
JYM5.0-160/5	160	5		100				
JYM5.0-160/2.5		2.5						
JYM5.0-200/6	200	6	105					
JYM5.0-200/4		4						
JYM5.0-200/2.0	250	2.0		110				
JYM5.0-250/3.2		3.2						
JYM5.0-250/1.6	320	1.6	115					
JYM5.0-320/4		3.2						
JYM5.0-320/2.5	320	2.5		120				
JYM5.0-320/1.3		1.3						
JYM5.0-400/2	400	2	125					
JYM5.0-400/1		1						
JYM5.0-500/2.5	500	2		130				
JYM5.0-500/1.6		1.6						
JYM5.0-500/0.8	630	0.8	135					
JYM5.0-630/1.3		1.3						
JYM5.0-630/0.63	720	0.63		140				
JYM5.0-720/1.6		1.6						
JYM5.0-800/1	800	1	145					
JYM5.0-800/0.5		0.5						
JYM5.0-1000/0.8	1000	0.8		150				
JYM5.0-1000/0.4		0.4						
JYM5.0-1200/0.8	1200	0.8	155					
JYM5.0-1200/0.63		0.63						
JYM5.0-1200/0.32	1450	0.32		160				
JYM5.0-1450/0.8		0.8						
JYM5.0-1350/0.6	1350	0.6	165					
JYM5.0-1350/0.3		0.3						
JYM5.0-1600/0.63	1600	0.63		170				
JYM5.0-1500/0.5		0.5						
JYM5.0-1500/0.25	1800	0.25	175					
JYM5.0-1800/0.63		0.63						

connections at the same pressure.
2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Model	rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	discharge connection size (mm)	Weight (Kg)
JYM12.5-32/40	32	40	14	50	96	2.2	DN15	350
JYM12.5-40/40	40	40	16		96	4		
JYM12.5-40/25		25			2.2			
JYM12.5-56/40	56	40			120	4		
JYM12.5-56/20		20			2.2			
JYM12.5-75/32	75	32	20		96	4		
JYM12.5-75/16		16			2.2			
JYM12.5-100/25	100	25	25		120	4		
JYM12.5-100/12.5		12.5			2.2			
JYM12.5-115/32	115	32	25		147	5.5		
JYM12.5-120/20	120	20			96	4		
JYM12.5-120/10		10			2.2			
JYM12.5-160/16	160	16			32	120	4	
JYM12.5-160/8		8	2.2					
JYM12.5-190/20	190	20	32		147	5.5		
JYM12.5-200/12.5	200	12.5			DN20	96	4	
JYM12.5-200/6.3		6.3				2.2		
JYM12.5-250/10	250	10			25	120	4	
JYM12.5-250/5		5	2.2					
JYM12.5-320/12.5	320	12.5	40		147	5.5		
JYM12.5-320/8	320	8			DN25	96	4	
JYM12.5-320/4		4				2.2		
JYM12.5-400/6.3	400	6.3			32	120	4	
JYM12.5-400/3.2		3.2	2.2					
JYM12.5-500/8	500	8	50		147	5.5		
JYM12.5-500/5	500	5			DN25	96	4	
JYM12.5-500/2.5		2.5				2.2		
JYM12.5-630/4	630	4			32	120	4	
JYM12.5-630/2		2	2.2					
JYM12.5-780/5	780	5	63		147	5.5		
JYM12.5-800/3.2	800	3.2			DN25	96	4	
JYM12.5-800/1.6		1.6				2.2		
JYM12.5-1000/2.5	1000	2.5			32	120	4	
JYM12.5-1000/1.3		1.3	2.2					
JYM12.5-1250/3.2	1250	3.2	80		147	5.5		
JYM12.5-1250/2	1250	2			DN32	96	4	
JYM12.5-1250/1		1				2.2		
JYM12.5-1600/1.6	1600	1.6			32	120	4	
JYM12.5-1600/0.8		0.8	2.2					
JYM12.5-2000/2	2000	2	100		147	5.5		
JYM12.5-2000/1.3	2000	1.3		DN40	96	4		
JYM12.5-2000/0.8		0.8			2.2			
JYM12.5-2500/1.0	2500	1.0		32	120	4		
JYM12.5-2500/0.63		0.63	2.2					
JYM12.5-3000/1.3	3000	1.3	110	147	5.5			
JYM12.5-3000/0.8	3000	0.8		DN40	96	4		
JYM12.5-3000/0.4		0.4			2.2			
JYM12.5-3700/1	3700	1		120	147	5.5		
JYM12.5-3700/0.8	3700	0.8	DN50		120	4		
JYM12.5-3700/0.4		0.4			2.2			
JYM12.5-4500/0.8	4500	0.8	147		5.5			

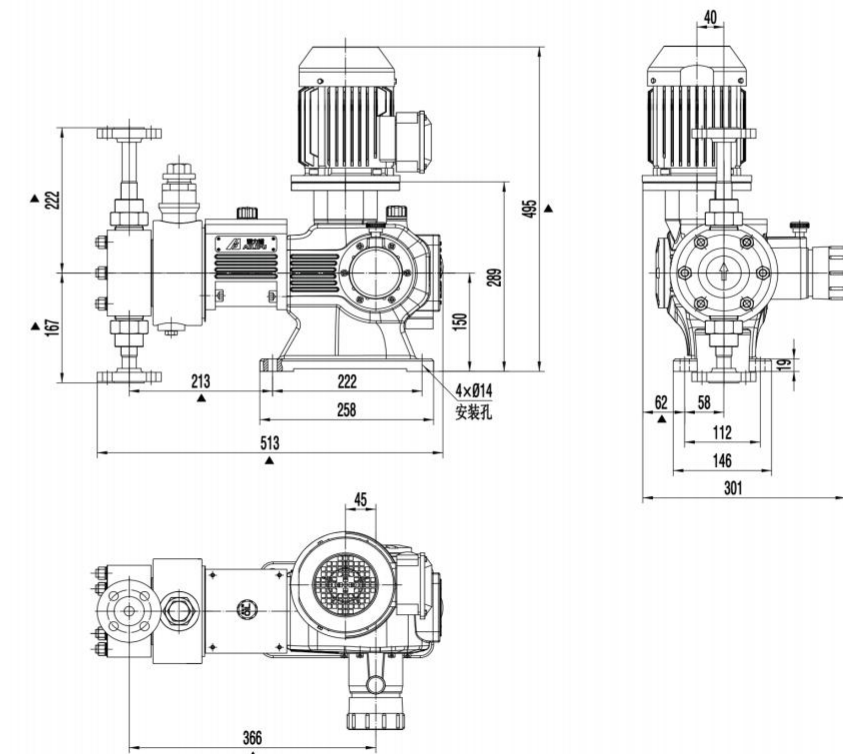
Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)	Weight (Kg)
JYM25-160/40	160	40	25	80	96	7.5	DN20	540
JYM25-250/32	250	32			120	11		
JYM25-320/32	320	32	32		96	11		
JYM25-320/16		16			7.5			
JYM25-400/25	400	25	40		120	11		
JYM25-400/12.5		12.5			7.5			
JYM25-500/25	500	25	50		147	15		
JYM25-500/20	500	20			DN25	96	11	
JYM25-500/10		10				7.5		
JYM25-640/16	640	16			32	120	11	
JYM25-640/8		8	7.5					
JYM25-800/16	800	16	50		147	15		
JYM25-800/12.5	800	12.5			63	96	11	
JYM25-800/6.3		6.3				7.5		
JYM25-1000/10	1000	10			32	120	11	
JYM25-1000/5		5	7.5					
JYM25-1260/10	1260	10	63		147	15		
JYM25-1260/8	1260	8			DN32	96	11	
JYM25-1260/4		4				7.5		
JYM25-1600/6.3	1600	6.3			32	120	11	
JYM25-1600/3.2		3.2	7.5					
JYM25-2000/8	2000	8	80		150	15		
JYM25-2000/5	2000	5			DN40	96	11	
JYM25-2000/2.5		2.5				7.5		
JYM25-2500/4	2500	4			50	120	11	
JYM25-2500/2		2	7.5					
JYM25-3200/5	3200	5	100		150	15		
JYM25-3200/3.2	3200	3.2			DN50	96	11	
JYM25-3200/1.6		1.6				7.5		
JYM25-4000/2.5	4000	2.5			32	120	11	
JYM25-4000/1.3		1.3	7.5					
JYM25-5000/3.2	5000	3.2	125		150	15		
JYM25-5000/2	5000	2			DN65	96	11	
JYM25-5000/1		1				7.5		
JYM25-6300/1.6	6300	1.6			32	120	11	
JYM25-6300/0.8		0.8	7.5					
JYM25-8000/2	8000	2	140		150	15		
JYM25-8000/1.25	8000	1.25			DN80	120	11	
JYM25-8000/0.63		0.63				7.5		
JYM25-10000/1.6	10000	1.6			160	150	15	
JYM25-10000/1.2		1.2	DN100	120		15		
JYM25-10000/1.0		1.0		11				
JYM25-10000/0.5		0.5	7.5					
JYM25-12500/1.2	12500	1.2	180	150	15			
JYM25-12500/0.8	12500	0.8		32	120	11		
JYM25-12500/0.4		0.4			7.5			
JYM25-16000/0.8	16000	0.8		50	120	15		
JYM25-16000/0.4		0.4	7.5					
JYM25-20000/0.8	20000	0.8	195	150	15			

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

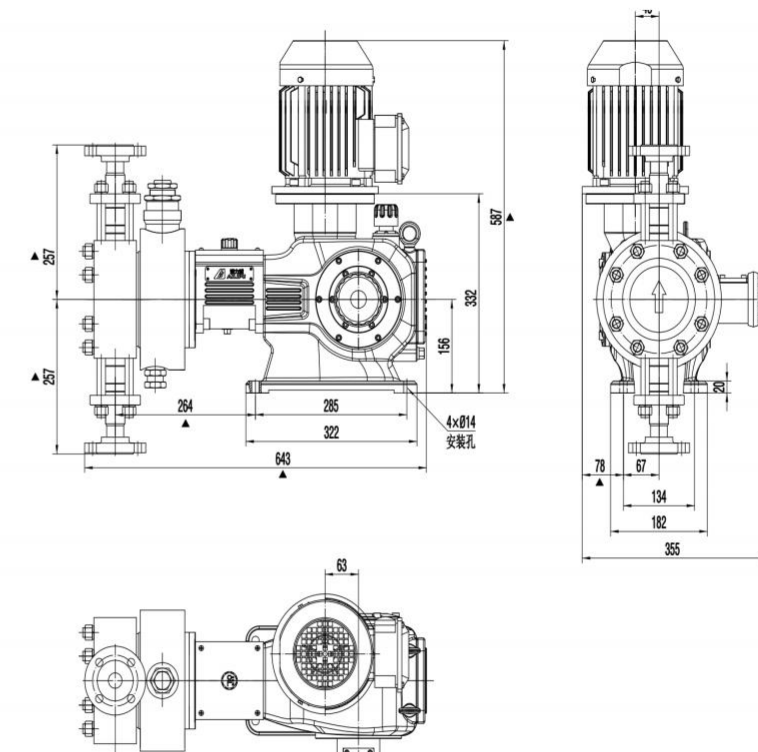
2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

Model	Rated flow rate (L/h)	Pressure (MPa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (Min-1)	Motor power (KW)	suction and discharge connection size (mm)
JYM50-280/40	280	40	25	50	120	15	DN25
JYM50-330/40	330	40			144	15	
JYM50-460/40	460	40	32		120	18.5	
JYM50-550/40	550	40			144	22	
JYM50-600/40	600	40	36		120	22	
JYM50-760/40	760	40	40		120	30	
JYM50-760/32		32			22		
JYM50-920/32	920	32	40		147	30	
JYM50-920/25		25			22		
JYM50-1250/25	1250	25	50		120	30	DN32
JYM50-1250/20		20			22		
JYM50-1600/20	1600	20			50	147	30
JYM50-1600/16		16				22	
JYM50-2000/16	2000	16	63		120	30	DN40
JYM50-2000/12.5		12.5			22		
JYM50-2500/12.5	2500	12.5			63	147	30
JYM50-2500/10		10		22			
JYM50-3200/10	3200	10	80	120	30	DN50	
JYM50-3200/8		8		22			
JYM50-4000/8	4000	8		80	147	30	
JYM50-4000/6.3		6.3			22		
JYM50-5000/6.3	5000	6.3	100		120	30	DN65
JYM50-5000/5		5			22		
JYM50-6300/5	6300	5		100	147	30	
JYM50-6300/4		4			22		
JYM50-8000/4	8000	4	125		120	30	DN80
JYM50-8000/3.2		3.2			22		
JYM50-10000/3.2	10000	3.2		140	147	30	
JYM50-10000/2.5		2.5			22		
JYM50-12000/3.2	12000	3.2	140		147	37	DN100
JYM50-12000/2.5		2.5			30		
JYM50-12000/2	12000	2		160	147	22	
JYM50-16000/2.5		2.5			37		
JYM50-16000/2	16000	2	160		147	30	
JYM50-16000/1.5		1.5			22		



JYM1.6

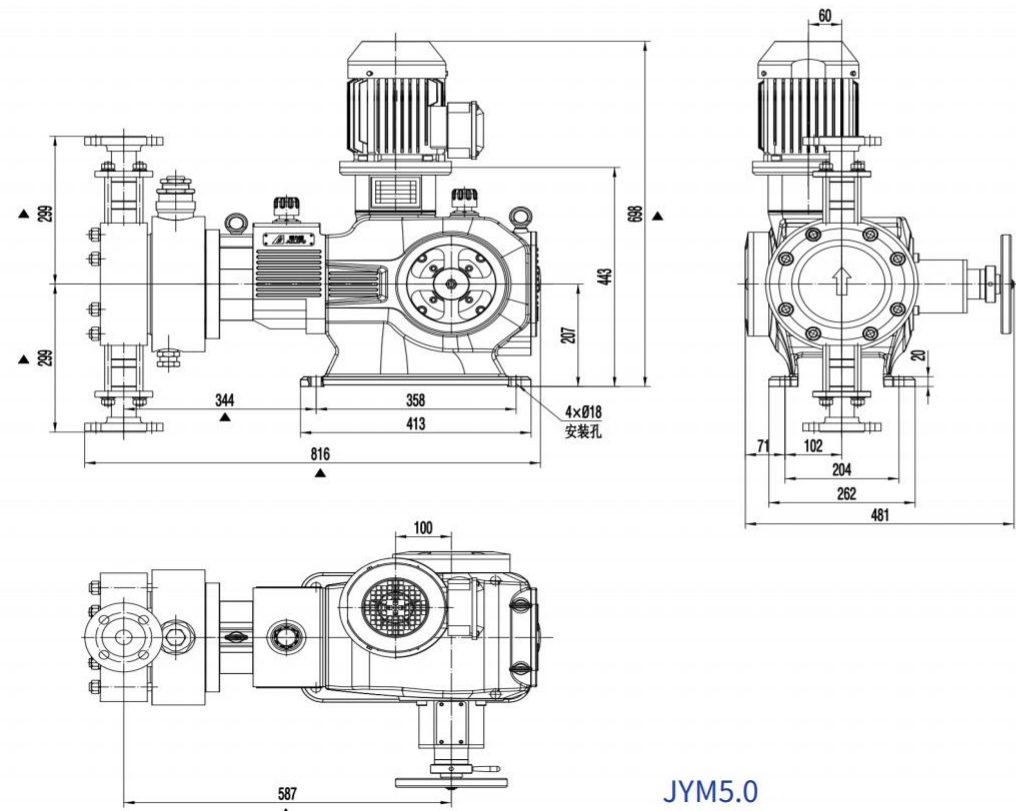
The size with '△' is the reference size. The specific size is shown in the design drawing



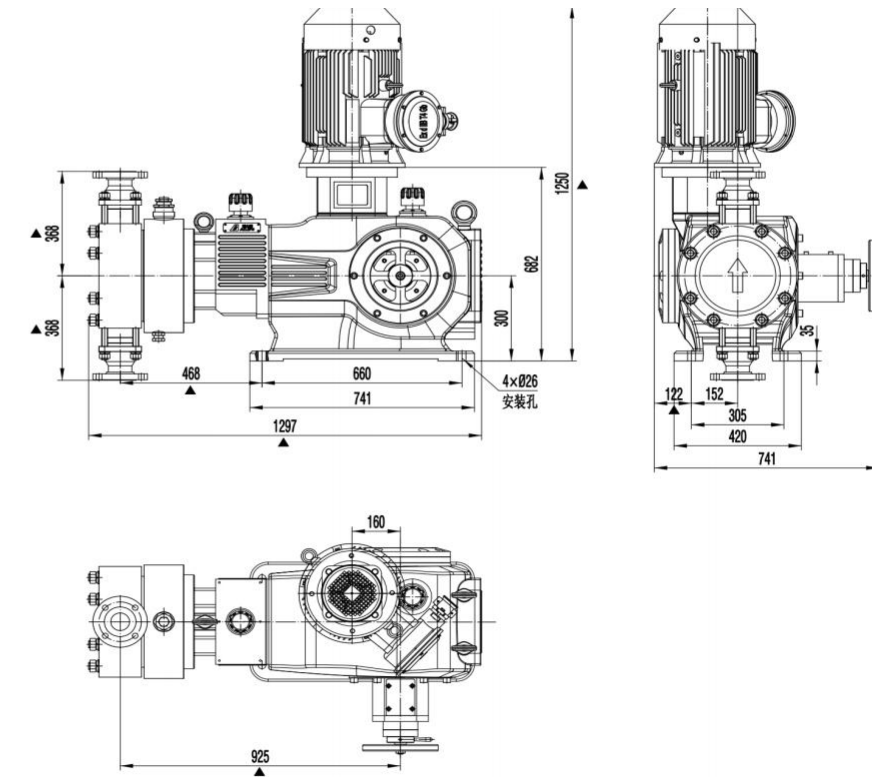
JYM3.0

Note: 1. This pump can be combined in multiple connections, and the flow rate can be multiplied by the number of connections at the same pressure.

2. When the rated discharge pressure is higher than the maximum value in the table, please consult our company.

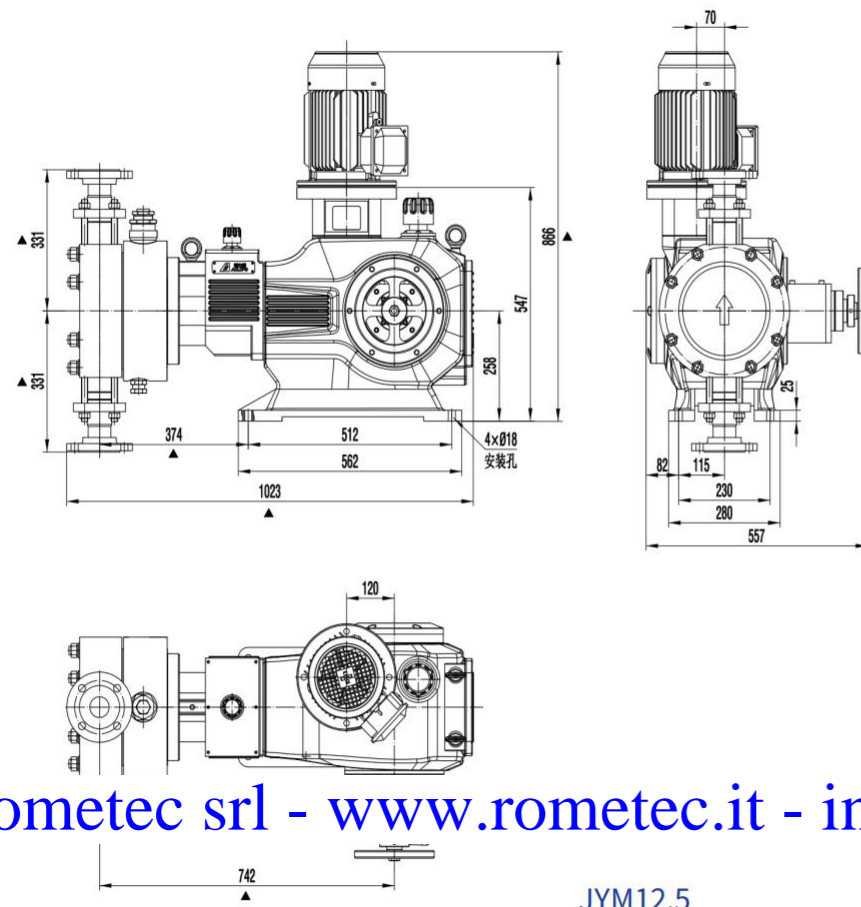


The size with '△' is the reference size. The specific size is shown in the design drawing

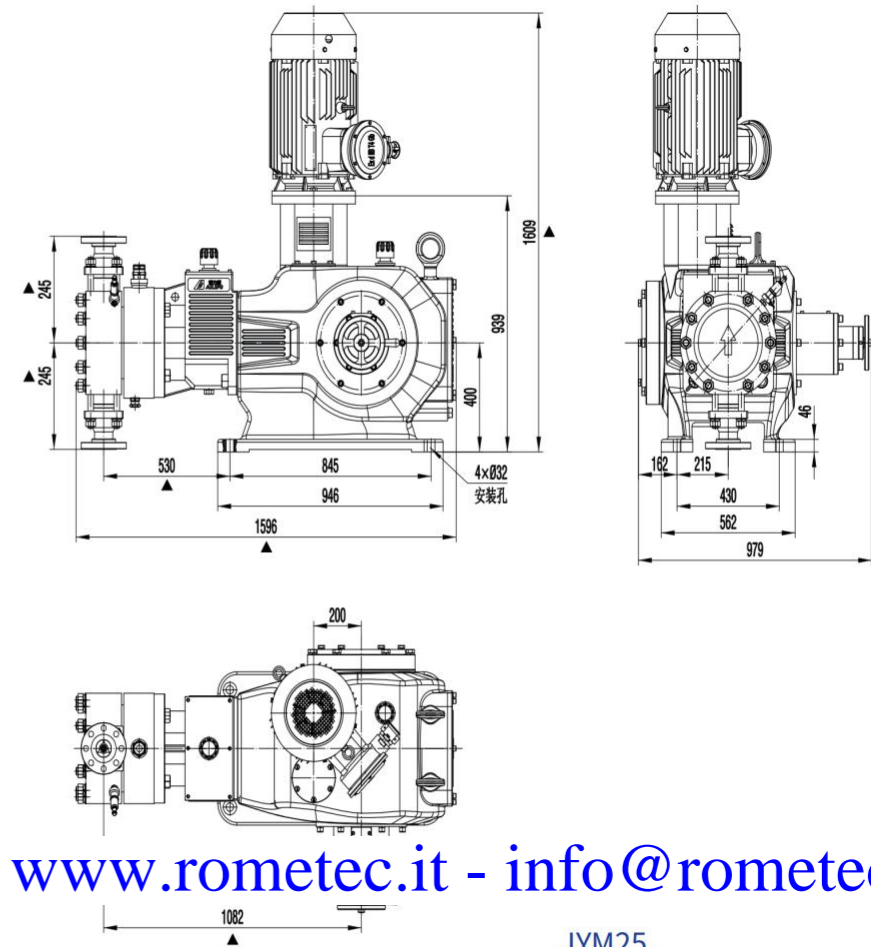


JYM25

The size with '△' is the reference size. The specific size is shown in the design drawing



JYM12.5



JYM25



Product Overview

The mechanical diaphragm metering pump is a diaphragm pump whose deflection and deformation of the diaphragm relies on mechanical direct drive. Mechanical diaphragm metering pumps are generally suitable for transporting liquids without solid particles at temperature of -15°C to 85°C and viscosity of 0.3~2000mm² /s. The flow rate can be steplessly adjusted within the range of 0-100%. The static seal at the hydraulic end of the product has no leakage, simple structure, low maintenance cost, and good cost performance. The product is suitable for environmental protection, water treatment, pharmaceutical, paper making, new materials and other industries, and can transport corrosive slurry and dangerous chemicals.

Function

1. The flow rate control mode of the pump has manual control and automatic control. Automatic control mode can be achieved by frequency conversion or by installing a digital controller or stroke controller.
2. Parameter range: flow rate is 0.47~6000L/h; maximum working pressure is 1.2MPa; flow rate stability accuracy can be controlled within 1%.
3. Suction range capacity: ≤3m water column
4. No safety relief device, need to install safety valve in the pump outlet line.
5. Transporting flammable and explosive, strong corrosive, toxic and other dangerous chemicals, in order to prevent accidents caused by diaphragm rupture, can choose hydraulic end structure with double diaphragm rupture alarm device.

Hydraulic end wetted parts

According to the characteristics of the transported chemicals, the hydraulic end wetted parts must meet the requirements of corrosion resistance.

Materials available: PVC, PVDF, PTFE, SS304, SS316L and other alloy materials (e.g. 20 alloy, 904L, titanium, Hastelloy, etc.).

Diaphragm material: PTFE or rubber compound PTFE.

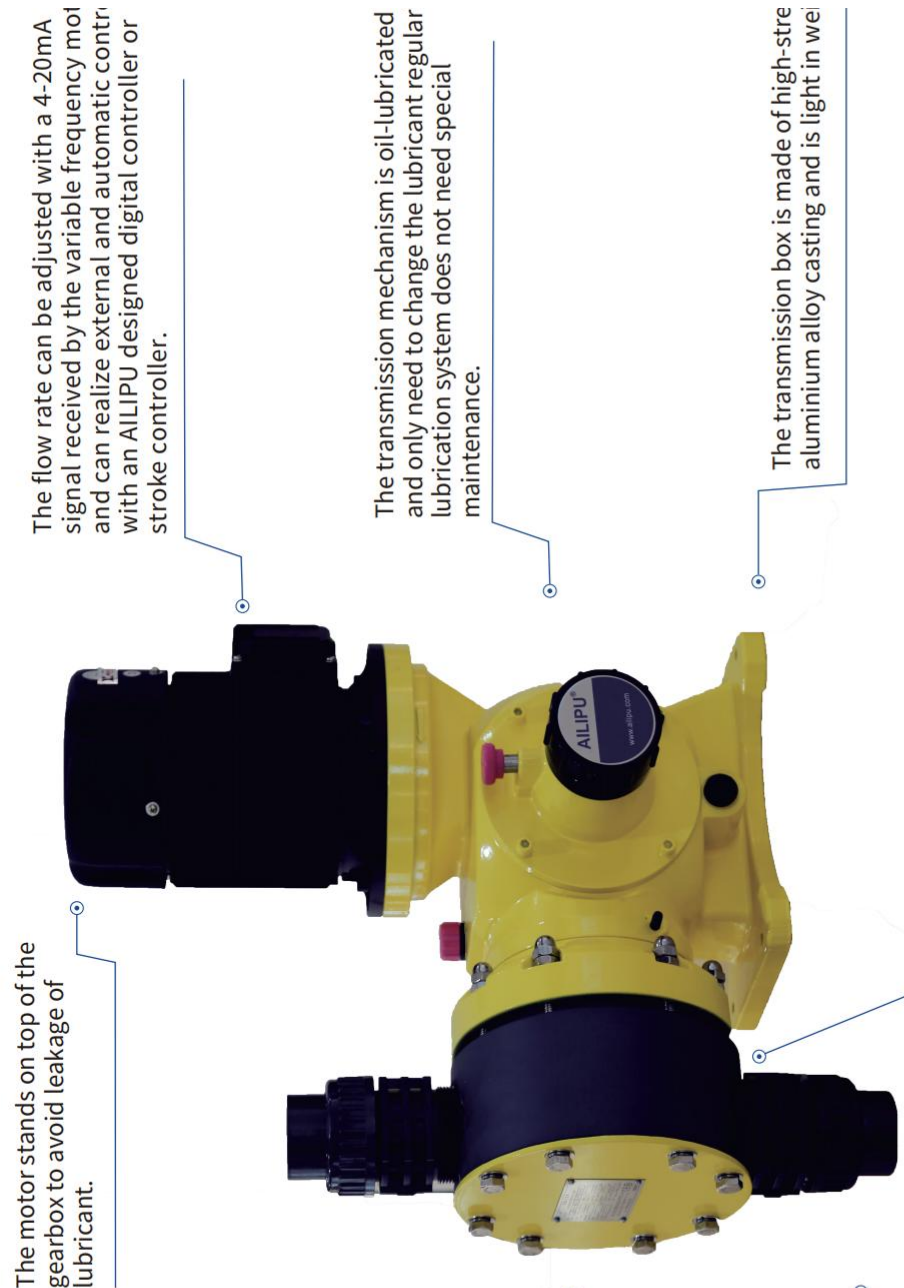
J Metering Pump	XI FRA	M M-A (B) A I-A I-A V I-S	50 Rated Capacity L/H	I Rated Capacity L/H	S Pump Material S-304 L-316L C-Hastelloy C H-20#Alloy T- Titanium Alloy P-pvc T-PTFE V-PVDF Q-Carbon Steel	H Connection H-Union, weld Connection R-house connector F-Flange P-NPT Thread M-Metric Thread G-Taper Pipe Thread Q-Hard Pipe Socked T-Ferrule	K Flow Regulation S-Manual Controller D-Auto Stroke Controller K-Digital Controller	B Motor B-Explosion Proof P-Variabile Frequency BP-Explosion-Proof with Variable Frequency O-Standard	D Pump Head D-Electrical Heating T- Heating Jacket N-High Viscosity	N Diaphragm Rupture Alarm	Standard Alarm sure gauge nd and Light



Selection parameters

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (kw)	Weight (KG)
JXM-A 2.25/1.2	2.25	1.2	1.2	36	φ63/36	DN8	220V/380V	18
JXM-A 4.5/1.2	4.5			72				
JXM-A 10/1.2	10		144					
JXM-A 22/1.2	22		72					
JXM-A 44/1.2	44	1.0	6	144	φ82/45	DN15	0.37KW	1400RPM
JXM-A 85/1.0	85			72				
JXM-A 120/0.7	120	0.7	8	72	φ110/70	DN15	3-50HZ	IP55/F
JXM-A 170/0.7	170		6	72				
JXM-A 240/0.7	240	0.5	8	144	φ116/80	DN25	0.55KW	
JXM-A 315/0.5	315			10				
JXM-A 400/0.5	400			180				
JXM-A 500/0.5	500							

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (kw)	Weight (KG)
JZM-A 82/1	82	1.0	1.2	36	φ110/70	DN15	3ph- 220V/380V	30
JZM-A 167/1	167			72				
JZM-A 237/1	237			102				
JZM-A 334/1	334			135				
JZM-A 410/1	410			180				
JZM-A 460/0.7	460	0.7	1.2	135	φ116/80	DN25	3ph- 220V/380V	40
JZM-A 580/0.7	580			180				
JZM-A 656/0.35	656	0.35	1.2	102	φ162/115	DN25	0.75KW	40
JZM-A 940/0.35	940			135				
JZM-A 1200/0.35	1200			180				
JZM-A 1500/0.3	1500	0.3	1.2	135	φ195/148	DN40	1.1KW	45
JZM-A 1800/0.3	1800			180				
JZM-A 2000/0.25	2000	0.25						



The motor stands on top of the gearbox to avoid leakage of lubricant.

The flow rate can be adjusted with a 4-20mA signal received by the variable frequency motor and can realize external and automatic control with an AIIIPU designed digital controller or stroke controller.

The transmission mechanism is oil-lubricated and only need to change the lubricant regular lubrication system does not need special maintenance.

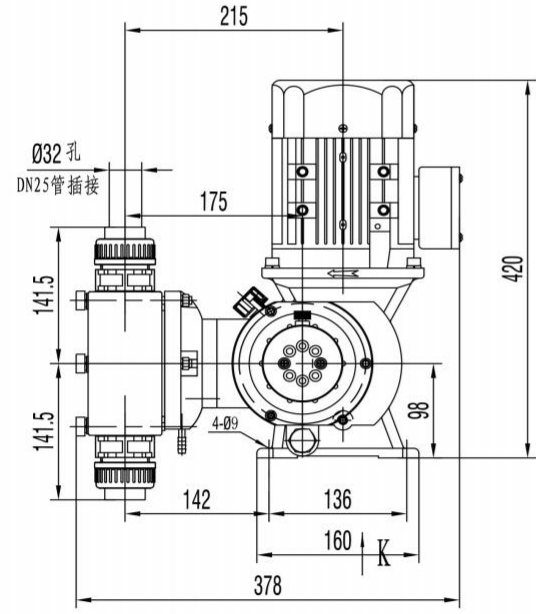
The transmission box is made of high-strength aluminium alloy casting and is light in weight.

The hydraulic end wetted parts are available in PVC/ PVDF/ PTFE/304/316 and other materials, and other special materials can be customized according to the requirements of use, so as to be suitable for conveying various corrosive and non-corrosive liquids.

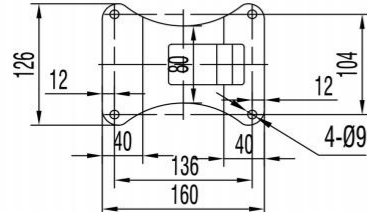
The strength PTFE diaphragm is resistant, which has long service life and suitable for conveying various corrosive and dangerous liquid.

The diaphragm rupture alarm device for different flammable, explosive, toxic, radioactive, strong irritant, corrosive liquid, which can improve the safety of product operation.

The one-way check valve structure has advantages such as accurate metering, compact structure, good sealing, long service life, low cost and easy installation.

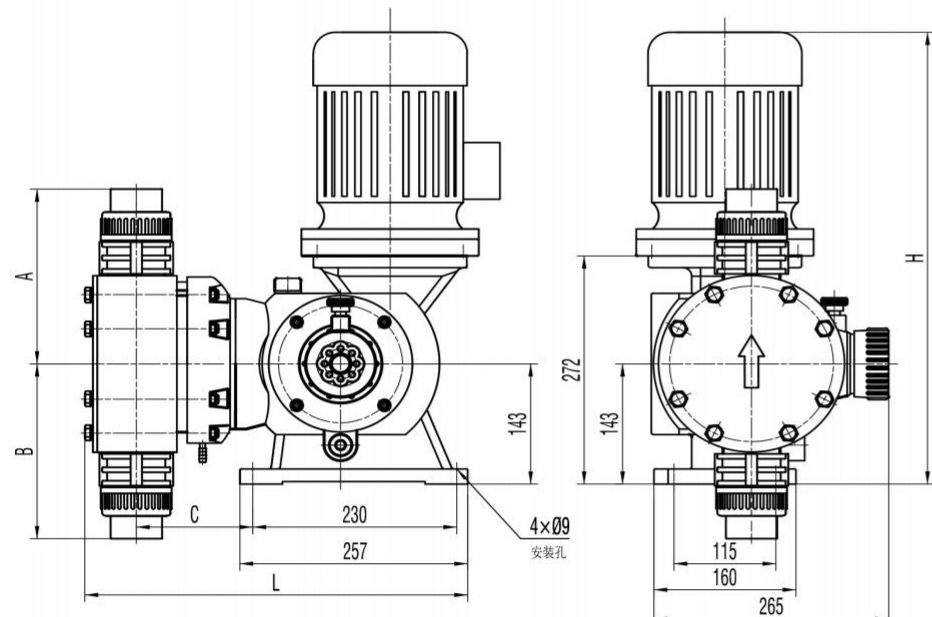


K向 (泵地脚尺寸图)

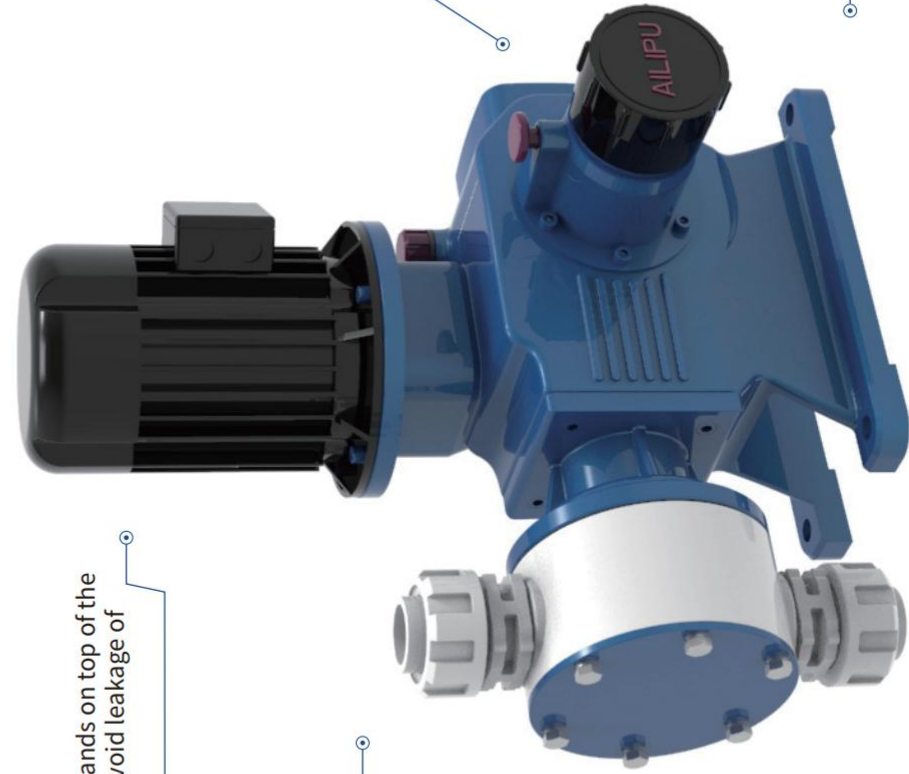


JXM-A

The size with '△' is the reference size. The specific size is shown in the design drawing



JZM-A



The motor stands on top of the gearbox to avoid leakage of lubricant.

Diaphragm: made of high strength PTFE, and ageing resistant, long service life. The double diaphragm rupture indication alarm allows the metering pump to operate even if the diaphragm ruptures, ensuring production continuity and sufficient time to replace diaphragm. Under normal operating conditions, the diaphragm life is over 3 years.

Accuracy: steady-state flow accuracy: 1%, flow reproducibility: $\pm 2\%$

A wide range of materials are available for hydraulic end wetted parts.

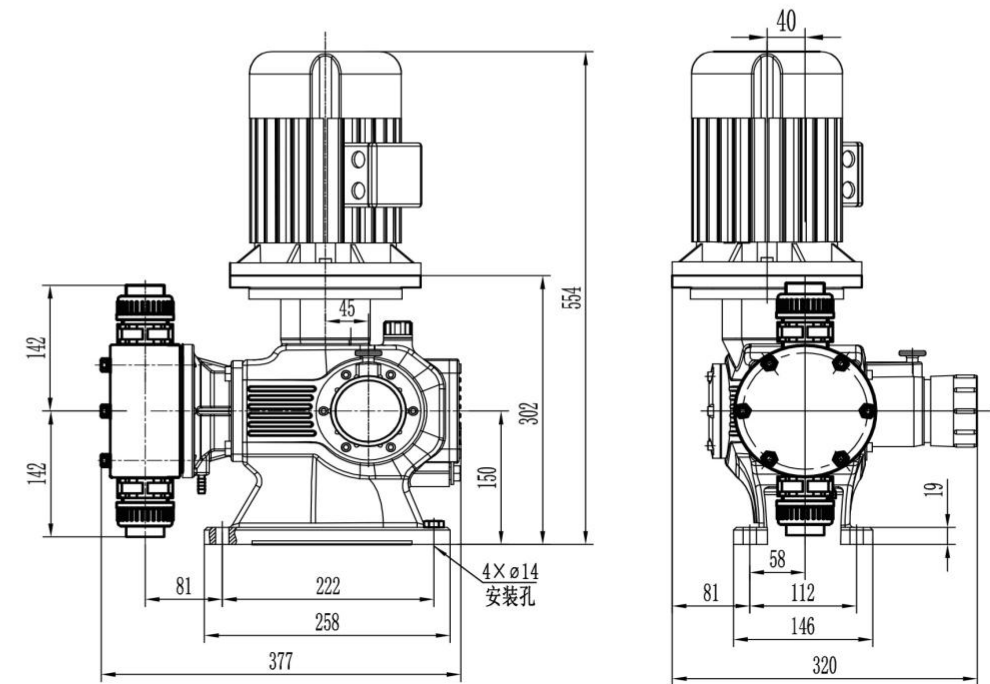
Flow rate adjustment mechanism: type slide shaft adjustment mechanism, linearity of adjustment, strong bearing capacity, low noise and other characteristics.

Flow adjustment range: 0-100% adjustable. Adjustment method: manual adjustment, or a variable frequency adjustment, or a controller and stroke controller. The controller and stroke controller achieve remote adjustment of the pump above the transmission box to remove the leakage of lubricating oil.

Pump casing material: HT250 cast iron, which is better than using aluminum casting casing, and the service life is 20 years.



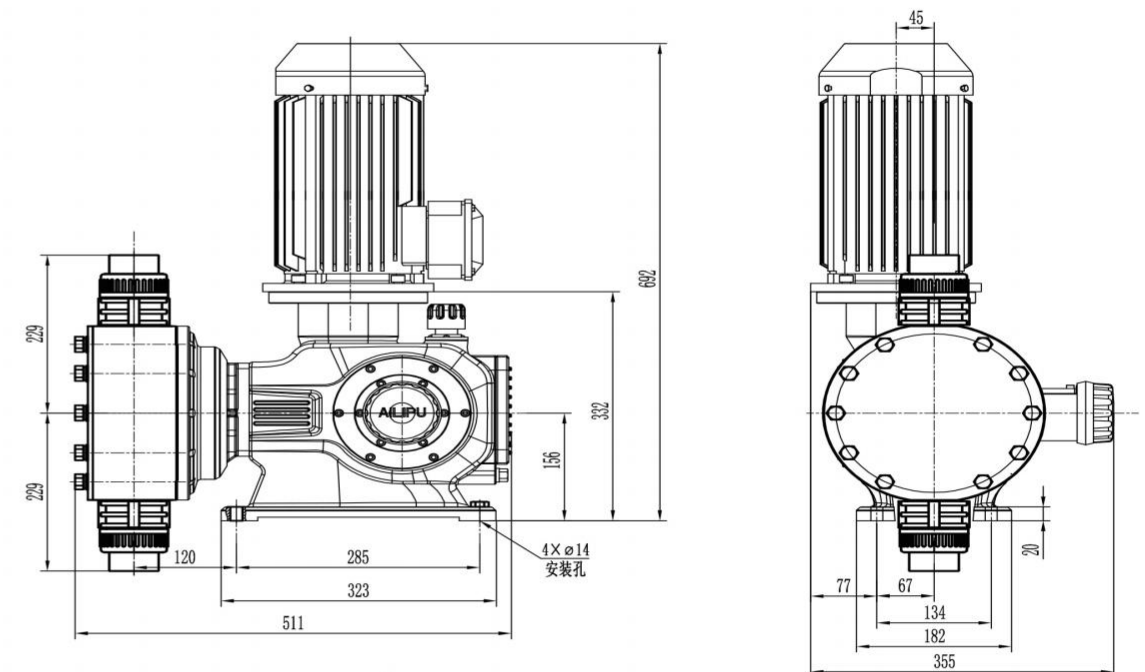
Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (kw)	Weight (KG)
JXMD-3.2/1.2	3.2	1.2	1.5	45	φ63/36	DN8	0.25	60
JXMD-4.5/1.2	4.5			58				
JXMD-8/1.2	8			106				
JXMD-10/1.2	10			135				
JXMD-15/1.2	15	4.5	4.5	45	φ82/45	0.37		
JXMD-20/1.2	20			58				
JXMD-36/1.2	36			106				
JXMD-46/1.2	46			135				
JXMD-58/1.0	58	1.0	7	45	φ110/70	DN15	0.55	
JXMD-75/1.0	75			58				
JXMD-100/0.8	100	0.8	9	58	φ116/80	DN25	0.75	
JXMD-138/0.7	138			106				
JXMD-175/0.7	175	0.7	9	106	φ116/80	DN25	0.55	
JXMD-225/0.6	225			135				
JXMD-300/0.6	300	0.6	11	106	φ116/80	DN25	0.55	
JXMD-380/0.5	380			135				
JXMD-415/0.5	415	0.5	11	135	φ116/80	DN25	0.55	
JXMD-500/0.4	500			168				
JXMD-500/0.5	500	0.4	12	168	φ116/80	DN25	0.75	
JXMD-600/0.4	600			168				



JXMD

The size with '△' is the reference size. The specific size is shown in the design drawing

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (kw)	Weight (KG)
JZMD-600/0.7	600	0.7	11.5	72	φ200/130	DN25	1.1	80-100
JZMD-600/0.5		0.5					0.75	
JZMD-650/0.6	650	0.6	12.5				1.1	
JZMD-650/0.4		0.4						
JZMD-750/0.5	750	0.5	14				1.1	
JZMD-750/0.35		0.35						
JZMD-800/0.5	800	0.5	11.5	96	φ200/130	DN40	1.1	
JZMD-800/0.35		0.35					0.75	
JZMD-850/0.5	850	0.5	12.5				1.1	
JZMD-850/0.3		0.35						
JZMD-1000/0.4	1000	0.4	14				1.1	
JZMD-1000/0.25		0.25						
JZMD-1200/0.35	1200	0.35	11.5				1.1	



Note: The weight in the table is subject to the PVC pump head and standard motor. If you need other data, please consult with Ailipu



High transmission efficiency and low power loss. Under the condition of equal power configuration, the efficiency is more than 45% higher than that of the traditional worm gear reducer, which also improves the operating efficiency of the whole machine and has obvious energy-saving effect.

Stroke length adjustment with high rigidity and also self-locking.

The drive box body is made of short-cut fibre (GF) and inert filler (MD), additive other raw materials in a one-off thermomoulding. It has excellent mechanical heat resistance, dirt resistance, chemical low shrinkage and light stable colour, gravity and high compressive strength first innovative application in the metal industry. As the transmission box is made of composite resin material, it has good consistency, light weight and good surface aesthetics.

The use of a spring-loaded double eccentric adjustment mechanism with "U" shaped brackets improves the smoothness of the actuator operation, distributes the force and increases the rigidity of the spindle under the same operating force.

fully enclosed grease lubrication on box, as most traditional pumps use oil bath lubrication.

flow stability and good regulation ability.

The solution to the problem of oil leakage from the transmission box.

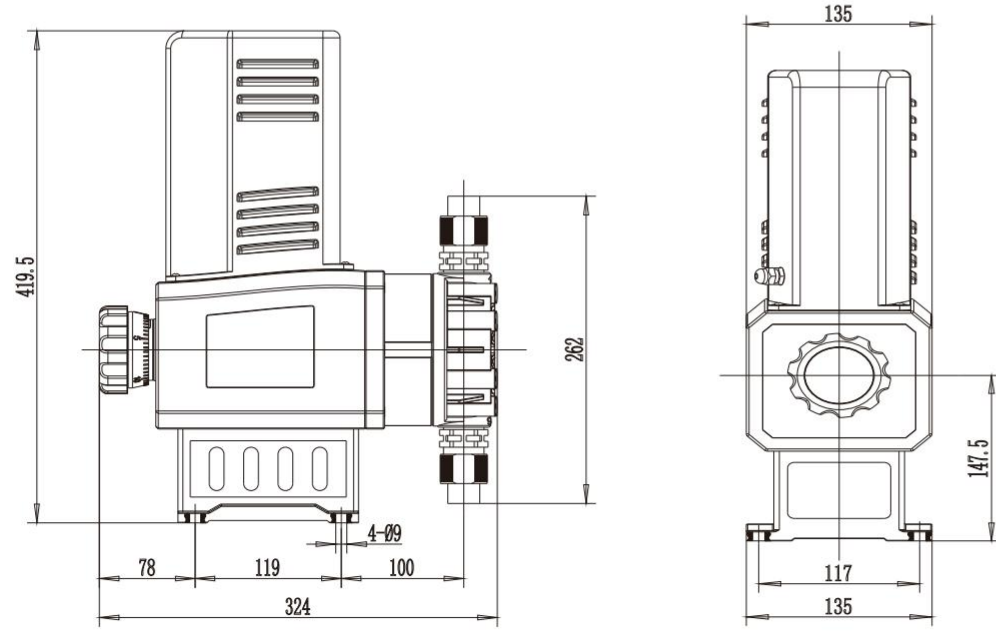
Selection parameters

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (KW)	Weight (KG)
JWM-C6/1.2	6	1.2	2	75	64	IN 15 OUT 9 PVC Reticulated tube	220v 40W	11.5
JWM-C12/1.2	12	1.2	2	75	64		3ph-380V 40W	
JWM-C24/1.2	24	1.2	4	75	64		220v 60W	
JWM-C30/1.2	30	1.2	5	75	64		3ph-380V 60W	
JWM-C45/1.2	45	1.2	4	150	64	DN15 PVC Reticulated tube	220v 90W	12
JWM-C60/1.2	60	1.2	5	150	64		3ph-380V 90W	
JWM-C80/0.9	80	0.9	4	108	94		220v 120W	
JWM-C100/0.7	100	0.7	5	108	94		3ph-380V 120W	
JWM-C120/0.6	120	0.6	4	150	94	DN15 PVC Reticulated tube	220v 120W 3ph-380V 120W	13
JWM-C150/0.5	150	0.5	5	150	94			
JWM-C170/0.4	170	0.4	5	150	94			

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (KW)	Weight (KG)
JXM-C240/0.7	240	0.7	8	144	φ110/70	DN25	220v /380v 0.25kw 1400rpm 50Hz IP55/F	16
JXM-C315/0.5	315	0.5		144	φ116/80			
JXM-C400/0.5	400		10	144				
JXM-C500/0.5	500			180				

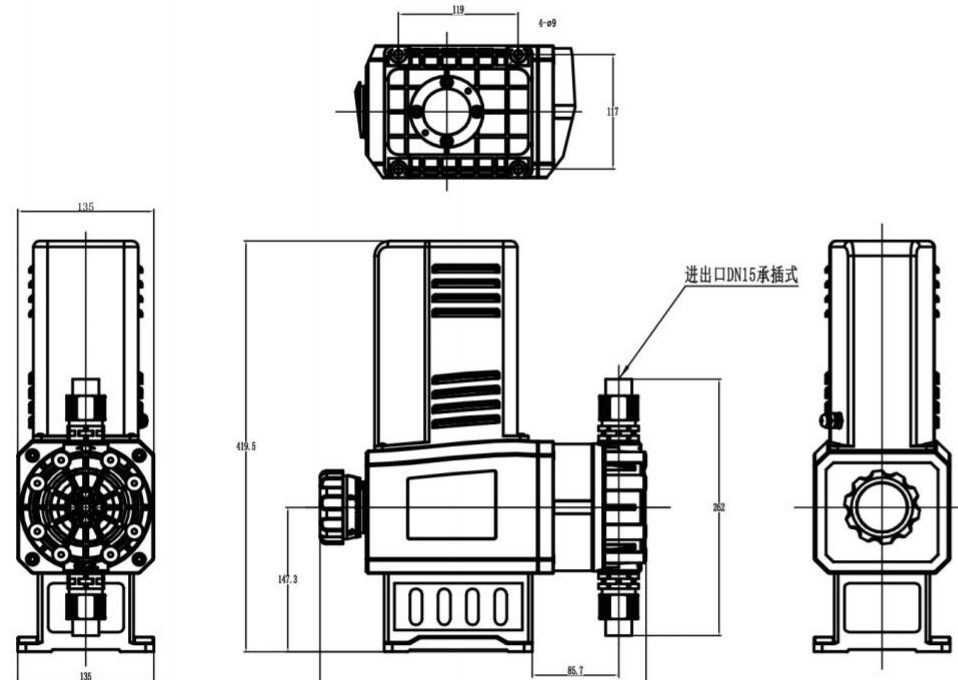
Note: The weight in the table is subject to the PVC pump head and standard motor. If you need other data, please consult with Ailipu

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



JWM-C

The size with '△' is the reference size. The specific size is shown in the design drawing



JXM-C



Can be equipped with a digital control for remote control.

Precise adjustment of the flow rate from 0 to 100% when the pump is running or stopped.

The pump body is made of high quality aluminium alloy and is light in weight, making it easy to match the power requirements in different occasions.

Reinforced PTFE+rubber multi-layer diaphragm, completely leak-free and safe to use.

The pump head is available in various materials: PVDF/RPP/PVC/SUS304/SUS316.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Flow adjustment mechanism: Adopt eccentric cam mechanism, with good adjustment linearity

The transmission mechanism does not require oil bath lubrication

Change the flow output by adjusting stroke



Plastic shell, lightweight, corrosion-resistant

Flow rate measurement and good flow stability

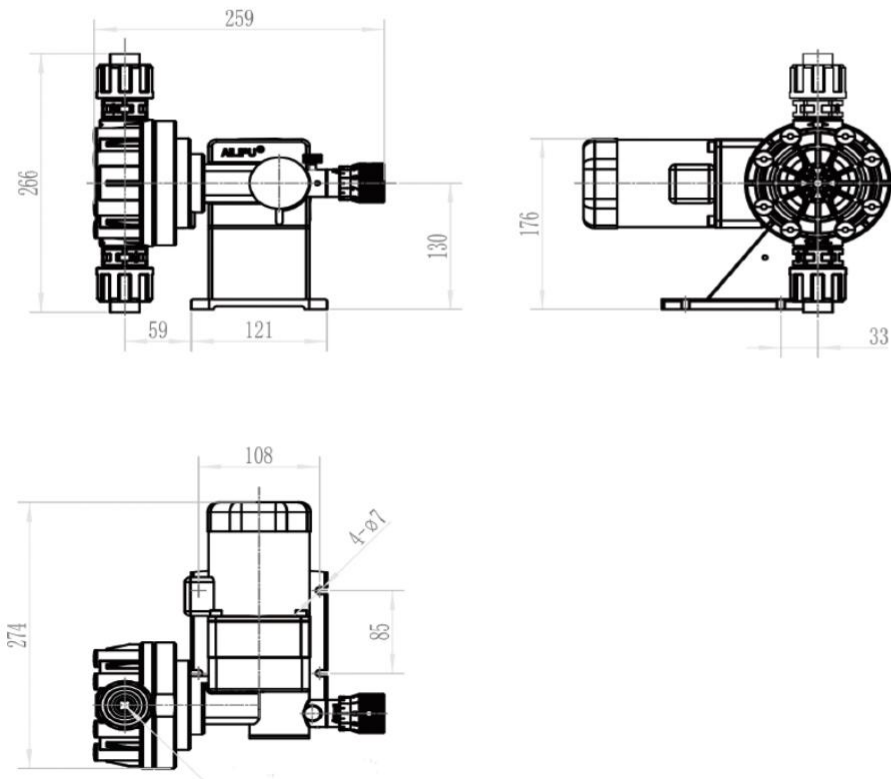
Selection parameters

Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Stroke (mm)	Pump speed (min ⁻¹)	Diaphragm specification (mm)	suction and discharge connection size (mm)	Motor power (KW)	Weight (Kg)
JWM-B 6.5/1.0	6.5	1.0	2	75	φ 65	in: φ 9 out: φ 15 PVC Reticulated tube	220V,40W 3ph 380V, 50HZ,40W	7.3
JWM-B 12/1.0	12			135				
JWM-B 24/1.0	24		4	90				
JWM-B 32/1.0	32			108				
JWM-B 42/1.0	42	0.6	5	150		φ 84	220V,60W 3ph- 380V, 50HZ,60W	7.5
JWM-B 60/0.6	60			150				
JWM-B 60/1.0	60	0.5	4	108		DN15 PVC Reticulated tube	220V,90W 3ph 380V, 50HZ,90W	8.5
JWM-B 80/0.5	80			135				
JWM-B 100/0.5	100			150				
JWM-B 120/0.5	120	0.3	5	150	φ 94			
JWM-B 150/0.3	150			150				

Note: The weight in the table is subject to the PVC pump head and standard motor. If you need other data, please consult with Ailipu

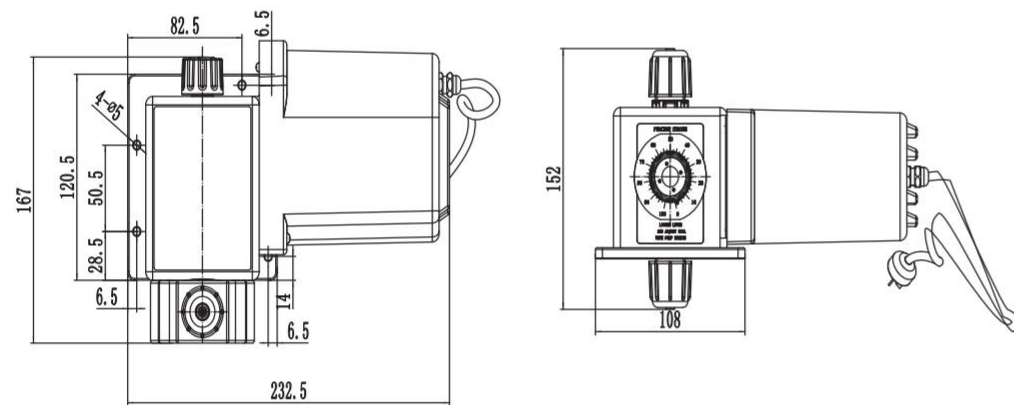
Model	Rated flow rate (L/H)	Maximum pressure (Mpa)	Pump speed (min ⁻¹)	suction and discharge connection size (mm)	Motor power (W)	Weight (Kg)
JM-0.47/0.7	0.47	0.7	7	M19*1.5	15	3.36
JM-1.1/0.7	1.1		12			
JM-2.36/0.7	2.36		24			
JM-3.78/0.7	3.78		48			
JM-4.72/0.7	4.72					
JM-10.72/0.42	10.72	0.42	72			
JM-15.77/0.42	15.77					

Note: The weight in the table is subject to the PVC pump head and standard motor. If you need other data, please consult with Ailipu



JWM-B

The size with '△' is the reference size. The specific size is shown in the design drawing



JM



Product Overview

Electromagnetic diaphragm metering pump is a type of diaphragm pump that is driven by an electromagnet to achieve cyclic deformation of the diaphragm. It is suitable for conveying liquids without solid particles at temperatures from -15°C to 85°C and viscosity from 0.3mm²/s to 200mm²/s under ambient conditions of 86KPa -106KPa, temperature from -20°C to 70°C and humidity from 30% to 95%RH. The flow rate can be steplessly adjusted within the range of 0-100%, the product is small in size and light in weight, no leakage, easy to maintain and has a good cost performance.

Product features

The product control mode has manual control and automatic control, and automatic control has analogue signal control and digital signal control.

Function

Power failure memory; low level alarm and stop; remote start/stop control; analogue signal adjustment; digital signal adjustment; RS485 interface communication for different power supply voltages 100-240V, 50-60Hz. Parameter: flow rate from 0.2 to 100L/H, working pressure from 2 to 20 bar.

Application

Wastewater treatment, electroplating, paper making, agriculture, chemical irrigation, ternary catalysis, power plant circulating water treatment, circuit boards, swimming pools, chemical dosing, municipal wastewater treatment.

Hydraulic end wetted parts

According to the characteristics of the transported chemicals, the hydraulic end wetted parts must meet the requirements of corrosion resistance. Materials available: PVC, PVDF, PTFE, SS304, SS316L and other alloy materials (e.g. 20 alloy, 904L, titanium, Hastelloy, etc.). Diaphragm material: PTFE or rubber compound PTFE.

A	FRAME	A B C D
	Pump head chamber diameter	36
	Rated Capacity L/H	2.5
	Rated Pressure Bar	10
S	control function	S-manual C-Manual/Remote; YY-liquid level alarm; Q - Remote start stop; C-pulse input; F-Pulse feedback H-Manual/Remote; YY-liquid level alarm; Q - Remote start stop; H-4-20mA X-Special customization features
P	Pump Material	S-304 L-316L P-pvc V-PVD
R	Connection	R-hose connection Q-hose connection

Model Specification



Series electromagnetic pump
operation level is IP65, which can operate
under harsh working conditions.

Strokes frequencies of up to 400 strokes
per minute, high calculation accuracy
and effective elimination of pulsation

Stability, the pump can work stably
/voltage range of 100-240V, 50-60HZ
sal.

JCM series metering pump adopts
a valve ball, valve seat and valve sleeve
which closely form a closed system, thus
improving its accuracy and reducing the loss of
liquid.

Diaphragms made of pure solid PTFE
with almost all chemicals, with a service life
of over 5 years.

Manual control, digital signal control,
current signal control, digital pulse signal
feedback control.



Selection parameters

JCMAZ Series

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Material
JCMAZ36-2.5/10	2.5	10	In4 Out9.5	PVC
JCMAZ36-1.5/12	1.5	12	In4 Out9.5	PVC
JCMAZ36-0.8/15	0.8	15	In4 Out9.5	PVC

JCMAY Series

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Material
JCMAY36-3.5/7	3.5	7	In5.5 Out9	PVC
JCMAY36-2.5/10	2.5	10	In5.5 Out9	PVC
JCMAY36-1.5/12	1.5	12	In5.5 Out9	PVC
JCMAY36-0.8/15	0.8	15	In5.5 Out9	PVC

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Imported pipe material (mm)	Material
JCMAZ45-15/1.5	15	1.5	In5.5 Out9.5	In4 Out9.5	PVC
JCMAZ45-11/2	11	2	In5.5 Out9.5	In4 Out9.5	PVC
JCMAZ45-7.0/3.5	7.0	3.5	In5.5 Out9.5	In4 Out9.5	PVC
JCMAZ45-3.5/7.0	3.5	7	In5.5 Out9.5	In4 Out9.5	PVC

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Material
JCMAY45-15/1	15	1	In5.5 Out9	PVC
JCMAY45-11/2	11	2	In5.5 Out9	PVC
JCMAY45-7/3.5	7	3.5	In5.5 Out9	PVC

JCMC Series

JCMB Series

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Material	Material
JCMB45-3/15	3	15	In5.5 Out9.5	PVC	PE
JCMB45-5/10	5	10	In5.5 Out9.5	PVC	PE
JCMB45-10/5	10	5	In5.5 Out9.5	PVC	PE

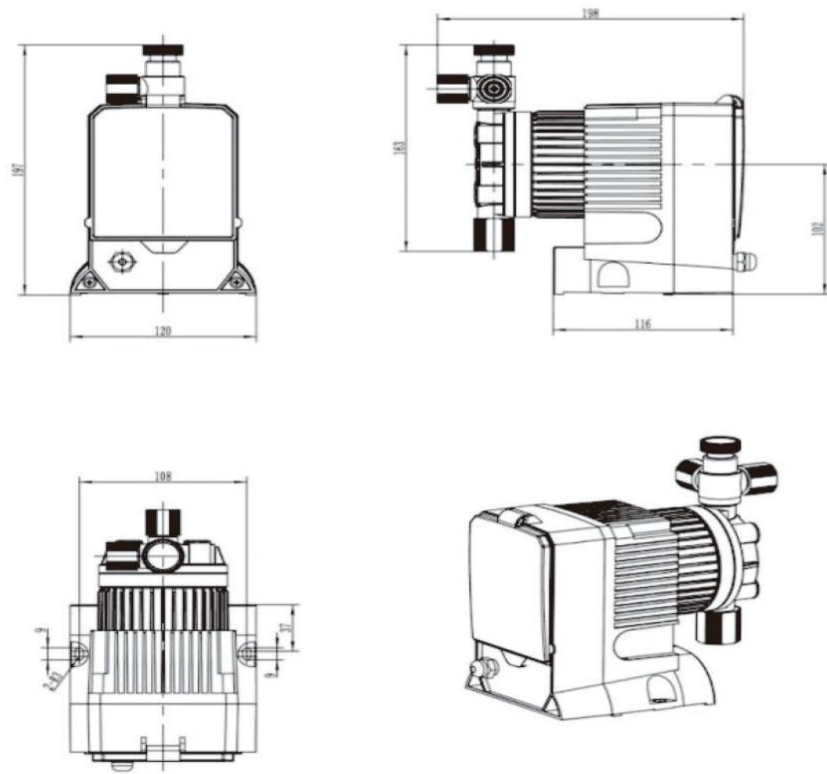
Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Imported pipe material	Outlet pipe material
JCMC-5/20	5	20	In6 Out9	PVC	PE
JCMC-10/10	10	10	In6 Out9	PVC	PE
JCMC-15/7	15	7	In6 Out9	PVC	PE
JCMC-30/3.5	30	3.5	In9 Out15	PVC	PVC mesh tube
JCMC-70/1.5	70	1.5	In9 Out15	PVC	PVC mesh tube

Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Material	Material
JCMB55-15/3.2	15	3.2	In5.5 Out9.5	PVC	PE
JCMB55-20/2.5	20	2.5	In5.5 Out9.5	PVC	PE
JCMB55-25/2.0	25	2.0	In5.5 Out9.5	PVC	PE

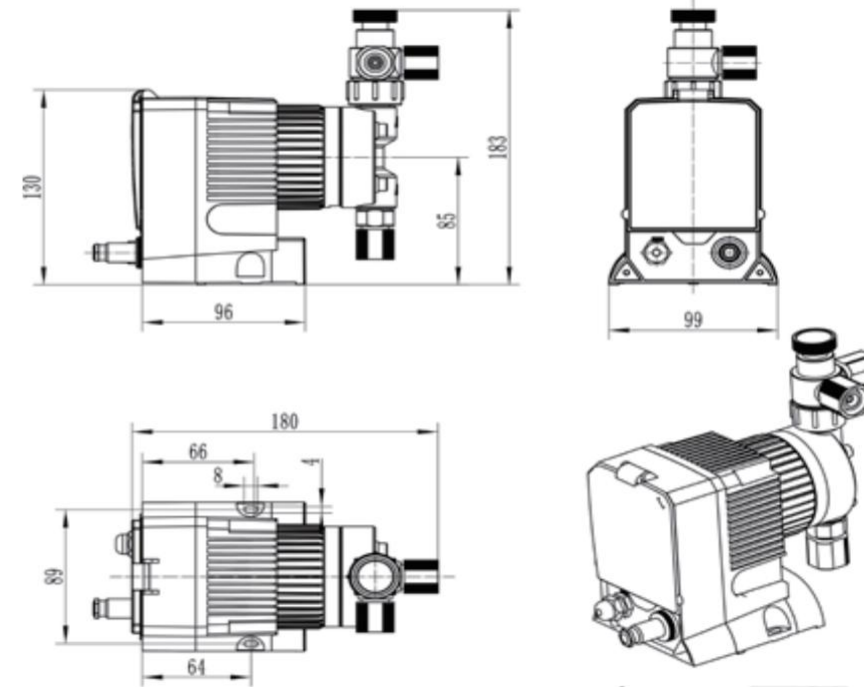
Model	Rated flow rate (L/H)	Maximum pressure (Bar)	Pipe Diameter (mm)	Imported pipe material	Outlet pipe material
JCMF/JCM4-15/10	15	10	In6 Out9	PVC	PE
JCMF/JCM4-30/5	30	5	In9 Out15	PVC	PVC mesh tube
JCMF/JCM4-95/1.5	95	1.5	In9 Out15	PVC	PVC mesh tube

Outline Dimension and installation reference size

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

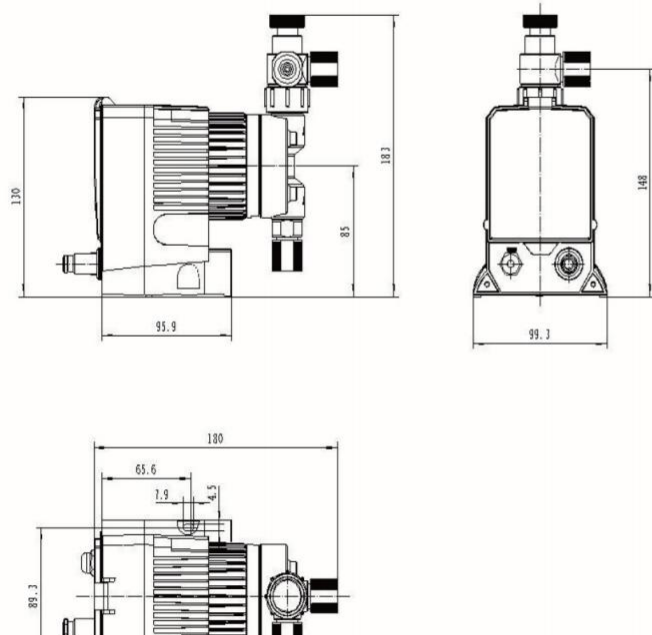


JCMZ

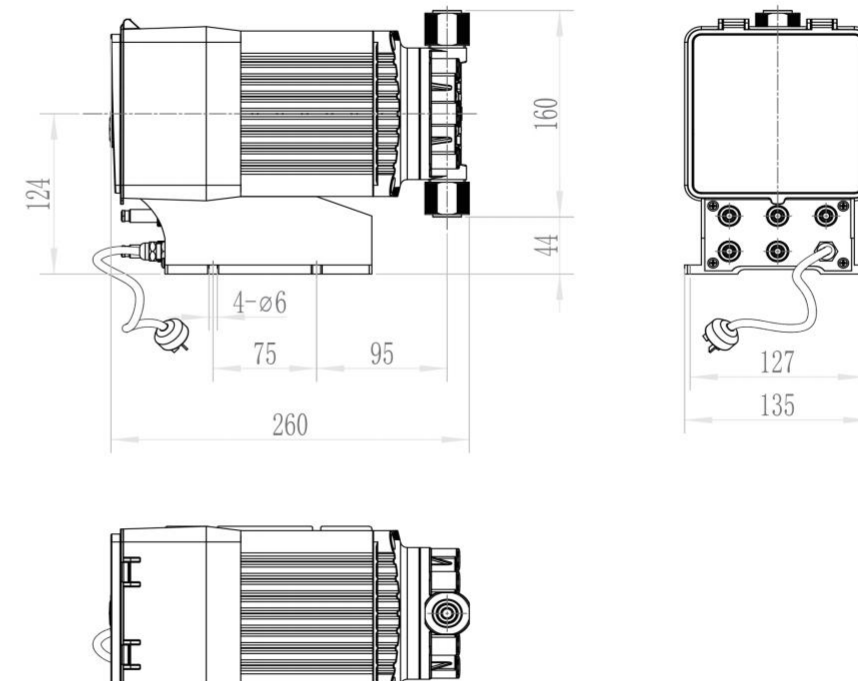


JCMB

The size with '△' is the reference size. The specific size is shown in the design drawing



JCMAT



JCMC

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

high flow rate, high working pressure and low pulsation, while the structure incorporates the characteristics of hydraulic diaphragm metering pumps, with the advantages of diaphragm limiting oil replenishment, double diaphragm rupture alarm, uniform flow without sedimentation and no leakage, etc. The low-speed diaphragm pump can convey slurry containing particles (such as mineral slurry, water and coal slurry, mud, etc.), also known as "slurry pump"; the medium-speed diaphragm pump can be used for oil extraction, petrochemical, electric power, chemical and other industries of sewage transport and corrosive and non-corrosive medium, and can be made into water injection pumps, pressure testing pumps, acid pumps, alkali pumps, salt pumps, liquid pumps, alkali pump, salt pump, liquid ammonia pump, ammonium methyl (ammonium carbamate) pump, injection poly pump, injection alcohol pump, industrial pump, agricultural pump, high temperature pump, low temperature pump, etc.

The three-plunger high-pressure diaphragm pump is generally supplied as a three-cylinder diaphragm pump, but can also be in the form of a single cylinder or multiple. This brochure provides parameters in the form of three cylinders.

The pump set mainly consists of the transmission box, diaphragm pump head, reducer, frequency conversion motor, safety valve, damper, lubricating oil pump and monitoring control system. This pump changes the pump speed by adjusting the frequency converter to achieve stepless adjustment of the pump flow rate and meet the process flow requirements. The drive unit, reducer and motor are connected by couplings and assembled separately on a steel base for easy lifting and installation.

Driving end

1. The transmission box of the small power pump and the reducer box community, using double helical gear reducer mechanism for deceleration, while the high power pump is split with the reducer.
2. The transmission box is cast in high grade cast iron, which has good shock absorption and deformation resistance.
3. The crankshaft is made of high-strength alloy forging and multi-point support, which has good bending and fatigue resistance and strong load-bearing capacity.
4. Small power pump connecting rod size head shaft tile adopts Bachmann bearing alloy, small head bushing adopts high-strength durable copper-based alloy; high power pump connecting rod size head all adopt rolling bearing, with maintenance-free, long operating life and other characteristics.
5. The connecting rod friction pair and crosshead adopt oil pressure type forced lubrication.

Hydraulic End

1. The cylinder body and cylinder head of the hydraulic end are made of forged parts to avoid leakage within the high pressure body.
2. Using a new three-valve structure: the hydraulic oil cavity is set up with a limit oil replenishment mechanism to achieve timely automatic replenishment, not only ensures the fullness of the hydraulic oil in the hydraulic cavity, but also to avoid over-filling, to prevent hydraulic shock, to effectively ensure the balance of forces on both sides of the diaphragm, to improve the operating life of the diaphragm, and has a suction range performance; deflation safety valve is a combination of deflation valve and safety valve, deflation valve can make the hydraulic oil in the hydraulic cavity to maintain pure liquid to improve the volumetric efficiency of the pump, and the safety valve is for the process pipeline once there is an obstruction and automatically open to

pressure-sensitive alarm technology is realized, and after the diaphragm rupture, an alarm signal is issued within 2s to stop in time, or switch the backup pump. Avoid hydraulic oil into the pipeline, resulting in pollution and accidents.

4. The plunger seal adopts piston ring seal instead of packing seal, which is changed from wearing parts to regular parts, and the service life can reach more than 3 years, avoiding the replacement of packing. The piston cylinder sleeve is obtained by high temperature quenching and fine grinding processing, which improves the service life of sealing components.

5. The piston is connected to the crosshead with an intermediate joint, so that the piston ring can be easily disassembled and installed without removing the cylinder sleeve, and the connecting rod adopts the card plate type connection.

6. The pump head and valve parts are equipped with different materials to meet the special requirements of strong corrosion and high abrasion.

Lubrication system

1. The transmission box is equipped with an independent lubrication system, and the gear pump provides sufficient lubricating oil to ensure the lubrication effect of the moving parts.

2. The oil pipeline is equipped with pressure gauge, safety valve and coarse and fine filter to ensure clean and efficient lubricating oil.

Reducers

Choose hardened gear reducer with high transmission efficiency and low running noise. Small power is generally cooled by natural air, while high power reducers are generally cooled by softened water.

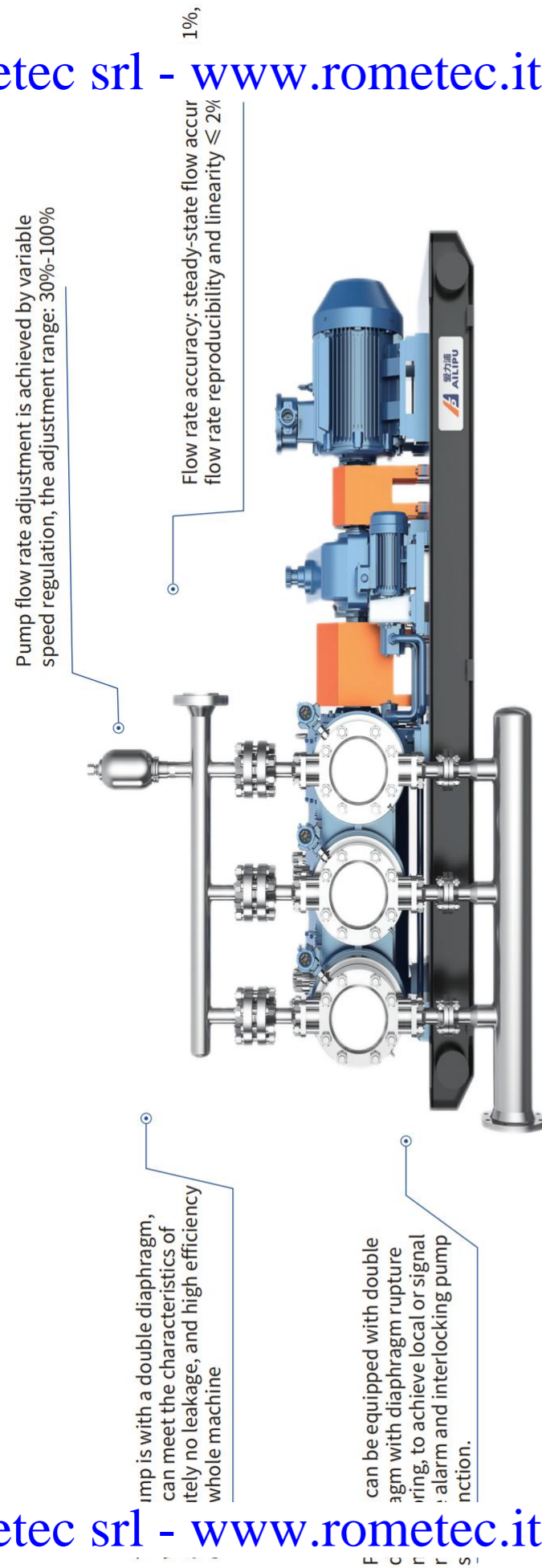
Main interlocking control items for equipment

1. Motor start/stop/variable frequency adjustment;
2. Diaphragm rupture alarm detection;
3. Lube oil pump (main pump, reducer) start/stop;
4. Lubricant oil temperature, oil pressure detection;
5. Reducer oil temperature, oil pressure detection;
6. Local/remote operation.

Ordering Instructions

When ordering, please specify the physical and chemical properties of the medium to be dosed (e.g. medium name, working pressure, medium density, viscosity, concentration, particle content, operating temperature, PH value, medium vaporization pressure, etc.).

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



Model	Rated flow rate (m ³ /h)	Pressure (Mpa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power (KW)	suction and discharge connection size (mm)
3W95-1.4/20	1.4	20	32	95	116	15	In DN50, out DN32
3WM95-1.6/20	1.6	20			131.2	15	In DN65, out DN32
3WM95-1.8/20	1.8	20			147	15	In DN65, out DN40
3WM95-2.2/20	2.2	18	36		182.5	18.5	In DN65, out DN40
3WM95-1.8/18	1.8	18			116	15	In DN65, out DN40
3WM95-2.0/18	2.0	18			131.2	15	In DN65, out DN40
3WM95-2.3/18	2.3	18	40		147	18.5	In DN65, out DN40
3WM95-2.8/18	2.8	16			182.5	18.5	In DN80, out DN40
3WM95-2.2/16	2.2	16			116	15	In DN65, out DN40
3W95-2.5/16	2.5	16	45		131.2	18.5	In DN65, out DN40
3W95-2.8/16	2.8	16			147	18.5	In DN80, out DN40
3W95-3.5/13	3.5	13			182.5	18.5	In DN80, out DN50
3W95-2.8/15	2.8	15	50	116	18.5	In DN80, out DN40	
3W95-3.2/15	3.2	15		131.2	22	In DN80, out DN50	
3W95-3.6/15	3.6	15		147	22	In DN80, out DN50	
3W95-4.4/12	4.4	12	55	182.5	22	In DN100, out DN50	
3W95-3.5/12.5	3.5	12.5		116.6	18.5	In DN80, out DN50	
3W95-4.0/12.5	4.0	12.5		131.2	22	In DN100, out DN50	
3W95-4.4/12	4.4	12	63	147	22	In DN100, out DN50	
3W95-5.5/8	5.5	8		182.5	22	In DN100, out DN50	
3W95-4.2/10	4.2	10		116.6	18.5	In DN100, out DN50	
3W95-4.8/10	4.8	10	70	131.2	22	In DN100, out DN50	
3W95-5.4/8	5.4	8		147	18.5	In DN100, out DN65	
3W95-6.7/8	6.7	6.3		182.5	18.5	In DN125, out DN65	
3W95-5.5/8	5.5	8	70	116.6	18.5	In DN100, out DN65	
3W95-6.3/8	6.3	8		131.2	22	In DN125, out DN65	
3W95-7.0/6.3	7.0	6.3		147	18.5	In DN125, out DN65	
3W95-8.8/5	8.8	5	80	182.5	18.5	In DN125, out DN80	
3W95-6.9/6.3	6.9	6.3		116.6	18.5	In DN125, out DN65	
3W95-7.8/6.3	7.8	6.3		131.2	22	In DN125, out DN80	
3W95-8.7/5	8.7	5	147	18.5	In DN125, out DN80		

Model	Rated flow rate (m ³ /h)	Pressure (Mpa)	Plunger Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power (KW)	suction and discharge connection size (mm)
3WM120-1.9/40	1.9	40	32	120	123.1	30	In DN65, out DN40
3WM120-2.2/40	2.2	40			138.5	37	In DN65, out DN40
3WM120-2.9/30	2.9	30			185	37	In DN80, out DN50
3WM120-3.0/30	3.0	30	40		123.1	37	In DN65, out DN40
3WM120-3.4/30	3.4	30			138.5	37	In DN80, out DN50
3WM120-4.5/25	4.5	25			185	45	In DN100, out DN50
3WM120-4.7/20	4.7	20	50		123.1	37	In DN100, out DN65
3WM120-5.3/20	5.3	20			138.5	45	In DN100, out DN50
3WM120-7.0/16	7.0	16			185	45	In DN125, out DN65
3WM120-7.5/12.5	7.5	12.5	63		123.1	37	In DN125, out DN80
3WM120-8.4/12.5	8.4	12.5			138.5	45	In DN125, out DN80
3WM120-11.2/10	11.2	10			185	45	In DN125, out DN80
3WM120-9.2/10	9.2	10	70	123.1	37	In DN150, out DN80	
3WM120-10.4/10	10.4	10		138.5	45	In DN150, out DN80	
3WM120-13.8/8	13.8	8		185	45	In DN150, out DN100	
3WM120-12/8	12	8	80	123.1	37	In DN150, out DN100	
3WM120-13.5/8	13.5	8		138.5	45	In DN150, out DN100	

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

Model	Rated flow rate (m ³ /h)	Pressure (Mpa)	Piston Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power (KW)	suction and discharge connection size (mm)
3WM125-2.7/40	2.7	40	40	125	105	30	In DN80, out DN50
3WM125-3.0/40	3.0	40			118.4	55	In DN80, out DN50
3WM125-3.8/40	3.8	40			148	75	In DN100, out DN50
3WM125-2.3/25	2.3	25	50		58.8 *	30	In DN80, out DN50
3WM125-4.6/25	4.6	25			118.4	55	In DN100, out DN65
3WM125-5.8/25	5.8	25			148	75	In DN125, out DN65
3WM125-3.7/16	3.7	16	63		58.8 *	30	In DN100, out DN50
3WM125-7.5/16	7.5	16			118.4	55	In DN125, out DN80
3WM125-9.3/16	9.3	16			148	75	In DN150, out DN80
3WM125-6/10	6	10	80		58.8 *	30	In DN125, out DN65
3WM125-12/10	12	10			118.4	55	In DN150, out DN100
3WM125-15/10	15	10			148	75	In DN200, out DN100
3WM125-7.6/8	7.6	8	90		58.8 *	30	In DN125, out DN80
3WM125-15/8	15	8			118.4	55	In DN150, out DN100
3WM125-19/8	19	8			148	75	In DN200, out DN125
3WM125-9/6.3	9	6.3	100		58.8 *	30	In DN150, out DN80
3WM125-19/6.3	19	6.3			118.4	55	In DN200, out DN125
3WM125-24/6.3	24	6.3			148	75	In DN250, out DN125
3WM125-15/4	15	4	125	58.8 *	30	In DN200, out DN100	
3WM125-30/4	30	4		118.4	55	In DN250, out DN150	
3WM125-37/4	37	4		148	75	In DN300, out DN150	
3WM125-18/3.2	18	3.2	140	58.8 *	30	In DN200, out DN125	
3WM125-37/3.2	37	3.2		118.4	55	In DN300, out DN150	
3WM125-46/3.2	46	3.2		148	75	In DN300, out DN200	
3WM125-24/2.5	24	2.5	160	58.8 *	30	In DN250, out DN125	
3WM125-49/2.5	49	2.5		118.4	55	In DN300, out DN200	
3WM125-61/2.5	61	2.5		148	75	In DN350, out DN200	

Model	Rated flow rate (m ³ /h)	Pressure (Mpa)	Piston Diameter (mm)	Stroke (mm)	Pump speed (min ⁻¹)	Motor power (KW)	suction and discharge connection size (mm)
3WM160-4.8/50	4.8	50	50	160	92.5	110	In DN100, out DN65
3WM160-6.2/50	6.2				119.2	132	In DN125, out DN65
3WM160-6.9/50	6.9				132	160	In DN125, out DN65
3WM160-7.5/32	7.5	32	63		92.5	110	In DN125, out DN80
3WM160-9.5/32	9.5				119.2	132	In DN150, out DN80
3WM160-11/32	11				132	160	In DN150, out DN80
3WM160-7.7/20	7.7	20	80		59.2 *	75	In DN125, out DN80
3WM160-12/20	12				92.5	110	In DN150, out DN100
3WM160-15/20	15				119.2	160	In DN200, out DN100
3WM160-17/20	17	16	90		132	160	In DN200, out DN100
3WM160-10/16	10				59.2 *	75	In DN150, out DN80
3WM160-15/16	15				92.5	110	In DN200, out DN100
3WM160-20/16	20	12.5	100		119.2	160	In DN200, out DN125
3WM160-22/16	22				132	160	In DN200, out DN125
3WM160-12/12.5	12				59.2 *	75	In DN200, out DN125
3WM160-19/12.5	19	8	125		92.5	110	In DN250, out DN150
3WM160-24/12.5	24				119.2	132	In DN300, out DN150
3WM160-27/12.5	27				132	160	In DN250, out DN150
3WM160-15/8	19	6.3	140	59.2 *	75	In DN250, out DN125	
3WM160-30/8	30			92.5	110	In DN300, out DN150	
3WM160-39/8	39			119.2	132	In DN300, out DN150	
3WM160-43/8	43	5	160	132	160	In DN300, out DN200	
3WM160-24/6.3	24			59.2 *	75	In DN250, out DN125	
3WM160-37/6.3	37			92.5	110	In DN300, out DN200	
3WM160-48/6.3	48	5	160	119.2	132	In DN300, out DN200	
3WM160-53/6.3	53			132	160	In DN300, out DN200	
3WM160-31/5	31			59.2 *	75	In DN250, out DN150	
3WM160-49/5	49	5	160	92.5	110	In DN300, out DN200	
3WM160-63/5	63			119.2	132	In DN350, out DN200	
3WM160-70/5	70			132	160	In DN350, out DN200	



Model	(m ³ /h)	(Mpa)	(mm)	(mm)	(min ⁻¹)	(KW)	(mm)
3WM190-9/50	9	50	63	190	92.5	200	In DN125, out DN80
3WM190-12/50	12				119.2	250	In DN150, out DN100
3WM190-13/50	13				132	280	In DN150, out DN100
3WM190-14/32	14	32	80	190	92.5	200	In DN200, out DN100
3WM190-18/32	18				119.2	250	In DN150, out DN80
3WM190-20/32	20				132	280	In DN150, out DN80
3WM190-12/25	12	25	90	190	59.2*	132	In DN150, out DN100
3WM190-18/25	18				92.5	200	In DN200, out DN125
3WM190-23/25	23				119.2	250	In DN250, out DN125
3WM190-26/25	26	20	100	190	132	280	In DN250, out DN125
3WM190-14/20	14				59.2*	132	In DN200, out DN100
3WM190-22/20	22				92.5	200	In DN200, out DN100
3WM190-29/20	29	12.5	125	190	119.2	250	In DN250, out DN150
3WM190-32/20	32				132	280	In DN250, out DN150
3WM190-22/12.5	22				59.2*	132	In DN200, out DN125
3WM190-35/12.5	35	10	140	190	92.5	200	In DN250, out DN150
3WM190-45/12.5	45				119.2	250	In DN300, out DN150
3WM190-50/12.5	50				132	280	In DN250, out DN150
3WM190-28/10	28	8	160	190	59.2*	132	In DN250, out DN150
3WM190-44/10	44				92.5	200	In DN300, out DN200
3WM190-57/10	57				119.2	250	In DN350, out DN200
3WM190-63/10	63	6.3	180	190	132	280	In DN350, out DN200
3WM190-37/8	37				59.2*	132	In DN300, out DN150
3WM190-58/8	58				92.5	200	In DN350, out DN200
3WM190-75/8	75	5	200	190	119.2	250	In DN400, out DN250
3WM190-83/8	83				132	280	In DN400, out DN250
3WM190-46/6.3	46				59.2*	132	In DN300, out DN200
3WM190-72/6.3	72	5	200	190	92.5	200	In DN350, out DN200
3WM190-93/6.3	93				119.2	250	In DN450, out DN250
3WM190-103/6.3	103				132	280	In DN450, out DN250
3WM190-58/5	58	5	200	190	59.2*	132	In DN350, out DN200
3WM190-90/5	90				92.5	200	In DN400, out DN250
3WM190-115/5	115				119.2	250	In DN500, out DN300
3WM190-128/5	128				132	280	In DN500, out DN300



This series of metering pumps is mainly used in the production process of XPS panels. It is a key equipment for accurately quantitatively injecting low-boiling foam such as CO₂, freon, alcohols, and alkanes into the extruder system. The injection pumps are available in two types: plunger metering pumps and diaphragm metering pumps. The flow rate can be adjusted by manually turning the handwheel or using frequency conversion speed regulation. To smoothen the output flow pulsation, multi-connection metering pump (double pump, triple pump) solutions are commonly employed.

Product Features

- 1. Plunger injection pump**
 - ◇ The plunger is made of high-hardness ceramic material, which is a wear-resistant part instead of a regular part, with a service life of more than 5 years. Due to the high hardness of the material, it has low wear and effectively improves the service life of the packing.
 - ◇ The plunger seal uses a double-channel seal structure, and the packing adopts a lip-shaped seal. Under high pressure, the sealing lips closely contact the plunger to achieve good self-sealing and seal wear repair functions, improving the reliability of the plunger seal.
 - ◇ The pump head body is equipped with a cooling jacket. By circulating a cooling fluid through the jacket, it can effectively avoid the vaporization effect of low-boiling foam on the extruder due to environmental temperature and friction between the plunger and the packing, thereby improving the stability of pump flow delivery.
 - ◇ High-precision non-return valves at both ends of the pump intake and strict valve component seal testing methods ensure the accuracy of pump flow measurement.
- 2. Hydraulic diaphragm injection pump**
 - ◇ Diaphragm pumps can achieve zero leakage. When producing foam with environmentally harmful ingredients, it is necessary to consider using diaphragm pumps to effectively avoid the leakage of the foam and its harm to the environment.
 - ◇ The plunger seal structure of the diaphragm pump adopts a piston ring seal, which has self-sealing and wear repair functions. This change from a traditional packing sealing surface to a piston ring seal makes the packing a wear-resistant part, eliminating the need for replacement within 3 years.
 - ◇ As a small-flow high-pressure diaphragm pump, due to the small volume change of the plunger in each stroke, the diaphragm deflection is also small. In addition, there is leakage at each sealed part under high pressure, which may easily lead to reduced cell volume factor and unstable flow phenomenon. To address this issue, this series of hydraulic diaphragm metering pumps use spring force to forcibly reset the diaphragm, maintaining constant diaphragm deflection deformation, which helps improve cell volume efficiency and ensures stable pump flow delivery.
 - ◇ The valve components are processed by high-precision machine tools and subjected to strict seal testing methods, enhancing the reliability of pump valve sealing. In terms of structural design, the gasket between valve parts is removed to use conical hard seals, which not only effectively avoid damage to the valve gasket caused by high pressure or disassembly of the valve but also help control consistent opening and closing lift of each valve ball, ensuring stable flow accuracy. Furthermore, in the design of valve seat structure, valve holes can be used on both sides. Even if one side of the valve hole fails due to wear and seal failure, the valve seat can be replaced, thus extending the service life of one-way valve by twice and providing excellent convenience and operating economy.
 - ◇ The hydraulic chamber of the pump is equipped with an air release relief valve and automatic oil replenishment valve to ensure full filling of hydraulic oil in the diaphragm cavity of the pump, improve stability of pump flow delivery, and prevent overpressure operation due to blocked outlet pipelines, achieving automatic pressure relief and effectively protecting the safe operation of the pump and pipeline.
 - ◇ With bubble detection and alarm function, it enhances the operational safety of the pump. Bubble detection devices can choose different types: 1) display of local pressure gauge; 2) display of local pressure gauge + signal long transmission (configure pressure switch for remote switching of switch quantity signal, configure pressure transmitter for remote transmission of 4-20mA analog signal), signal transmission to DCS system for alarm or interlocking stoppage; 3) field pressure display and acoustic and visual alarm.



 Selection parameters

Model	Rated flow rate (L/h)	Theoretic Flow (L/h)	Discharge pressure (MPa)	Plunger Diameter (mm)	Trip (mm)	Pump Speed (min ⁻¹)	Power (KW)	Inlet and outlet diameter of each pump (mm)	Coolant interface	weight (Kg)
JYM5.0X-18/35	18	30	35	12	26	170	2.2	DN6, valve F7	G1/2 internal thread	120
JYM5.0X-25/30	25	40.8	30	14						
JYM5.0X-30/25	30	53.3	25	16						
2JYM5.0X-36/35	36	60	35	12	26	170	3	DN6, valve F7	G1/2 internal thread	200
2JYM5.0X-50/30	50	81.6	30	14						
2JYM5.0X-60/25	60	106.6	25	16						
3JYM5.0X-54/35	54	90	35	12	26	170	4	DN6, valve F7	G1/2 internal thread	300
3JYM5.0X-72/30	72	122.4	30	14						
3JYM5.0X-90/25	90	159.9	25	16						

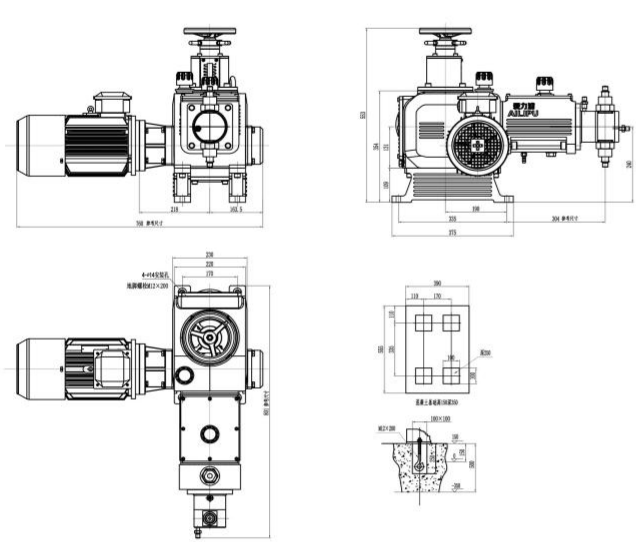
Model	Rated flow rate (L/h)	Theoretic Flow (L/h)	Discharge pressure (MPa)	Plunger Diameter (mm)	Trip (mm)	Pump Speed (min ⁻¹)	Power (KW)	Inlet and outlet diameter of each pump (mm)	Coolant interface	weight (Kg)
J5.0X-27/35	27	30	35	12	26	170	2.2	DN6, valve F7	G1/4 external thread	120
J5.0X-36/30	36	40.8	30	14						
J5.0X-45/25	45	53.3	25	16						
2J5.0X-54/35	54	60	35	12	26	170	3	DN6, valve F7	G1/4 external thread	200
2J5.0X-72/30	72	81.6	30	14						
2J5.0X-90/25	90	106.6	25	16						
3J5.0X-80/35	80	90	35	12	26	170	4	DN6, valve F7	G1/4 external thread	300
3J5.0X-110/30	110	122.4	30	14						

Model	Rated flow rate (L/h)	Theoretic Flow (L/h)	Discharge pressure (MPa)	Plunger Diameter (mm)	Trip (mm)	Pump Speed (min ⁻¹)	Power (KW)	Inlet and outlet diameter of each pump (mm)	Coolant interface	weight (Kg)
JYM5.0D-30/35	30	49.9	35	14	32	169	3	DN6, valve F7	G1/2 internal thread	200
JYM5.0D-40/30	40	65.2	30	16						
JYM5.0D-50/25	50	82.5	25	18						
2JYM5.0D-60/35	60	99.8	35	14	32	169	3	DN6, valve F7	G1/2 internal thread	350
2JYM5.0D-80/30	80	130.3	30	16						
2JYM5.0D-100/25	100	165	25	18						
3JYM5.0D-90/35	90	149.7	35	14	32	169	4	DN6, valve F7	G1/2 internal thread	500
3JYM5.0D-120/30	120	196.6	30	16						
3JYM5.0D-150/25	150	247.5	25	18						

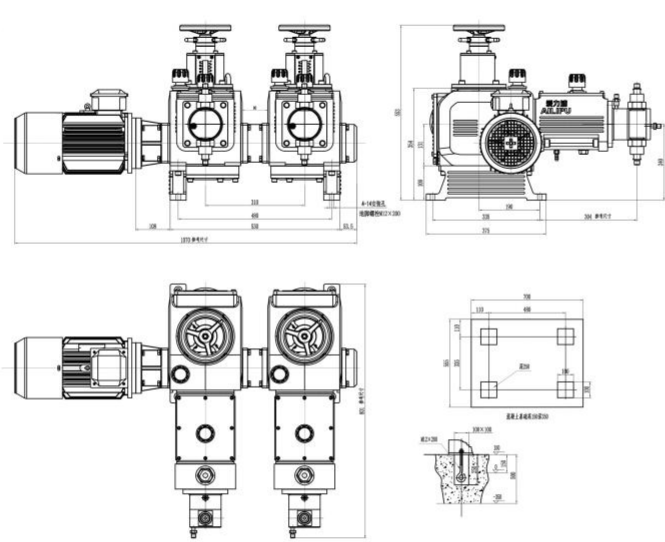
Model	Rated flow rate (L/h)	Theoretic Flow (L/h)	Discharge pressure (MPa)	Plunger Diameter (mm)	Trip (mm)	Pump Speed (min ⁻¹)	Power (KW)	Inlet and outlet diameter of each pump (mm)	Coolant interface	weight (Kg)
J5.0D-32/35	32	36.7	35	12	32	169	3	DN6, valve F7	G1/4 external thread	200
J5.0D-44/30	44	49.9	30	14						
J5.0D-58/25	58	65.2	25	16						
J5.0D-70/20	70	82.5	35	18	32	169	3	DN6, valve F7	G1/4 external thread	350
2J5.0D-63/35	63	73.4	30	12						
2J5.0D-85/30	85	99.8	25	14						
2J5.0D-85/30	110	130.3	35	16	32	169	4	DN6, valve F7	G1/4 external thread	500
2J5.0D-140/20	140	165	30	18						
3J5.0D-96/35	96	110.1	25	12						
3J5.0D-130/30	130	149.7	30	14	32	169	4	DN6, valve F7	G1/4 external thread	500
3J5.0D-170/25	170	196.6	25	16						
3J5.0D-210/20	210	247.5	20	18						

Outline Dimension and installation reference size

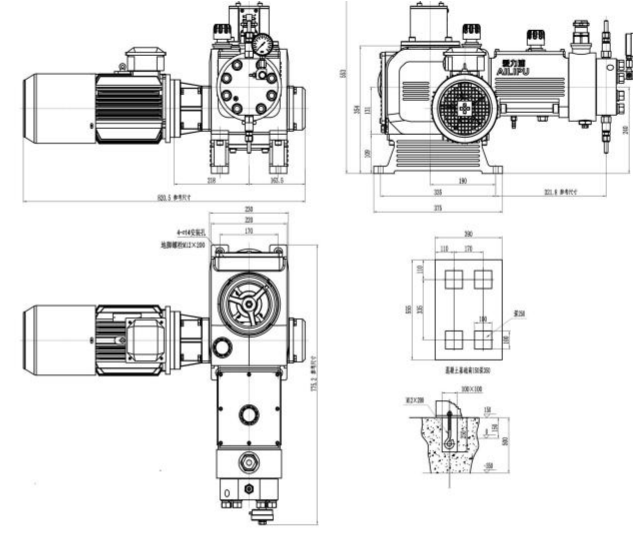
Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



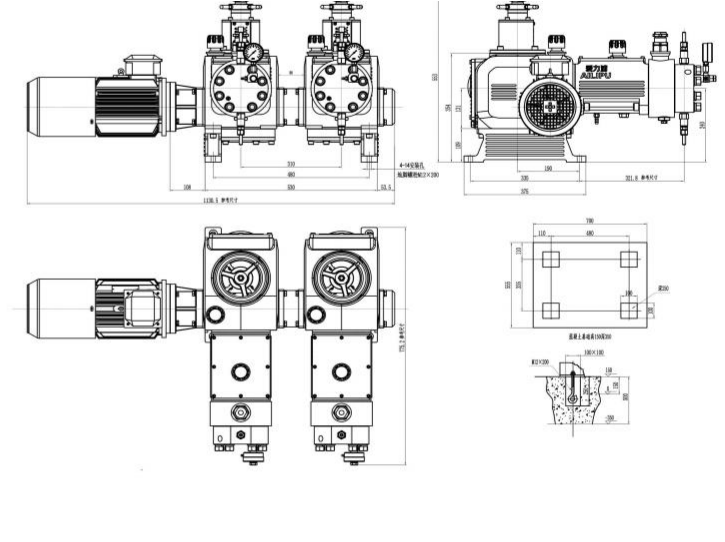
J5.0X



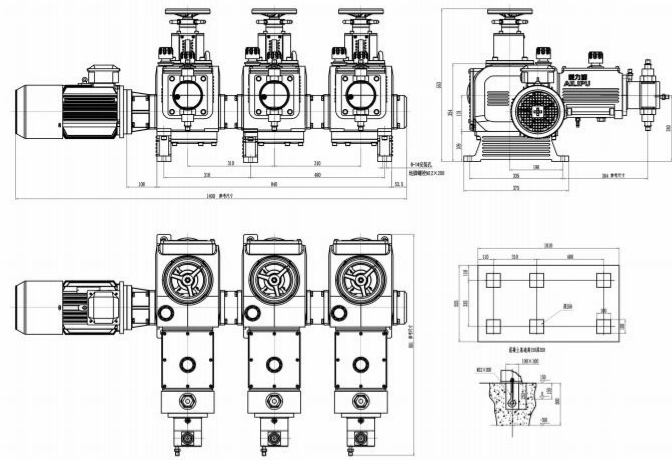
2J5.0X



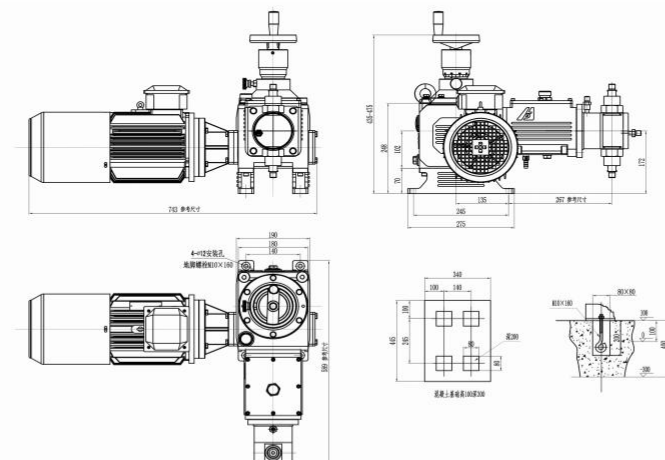
JYM5.0X



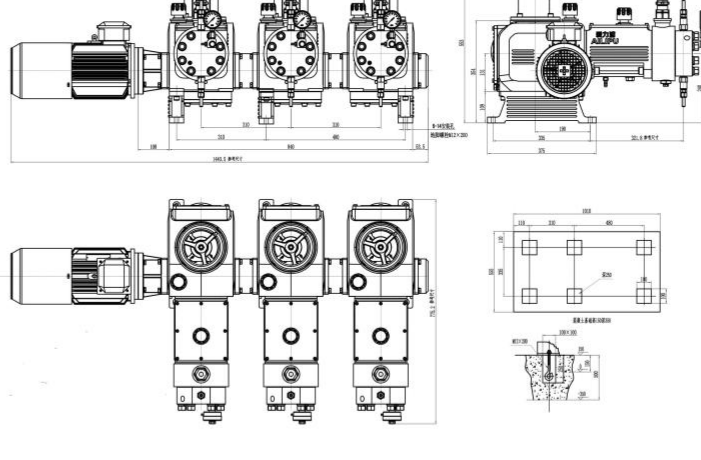
2JYM5.0X



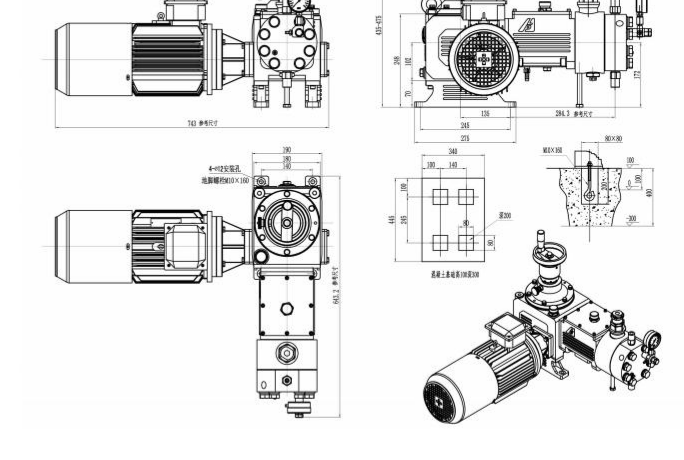
3J5.0X



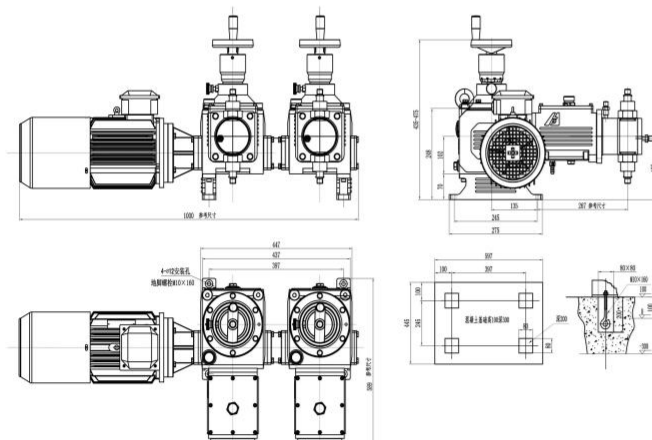
J5.0D



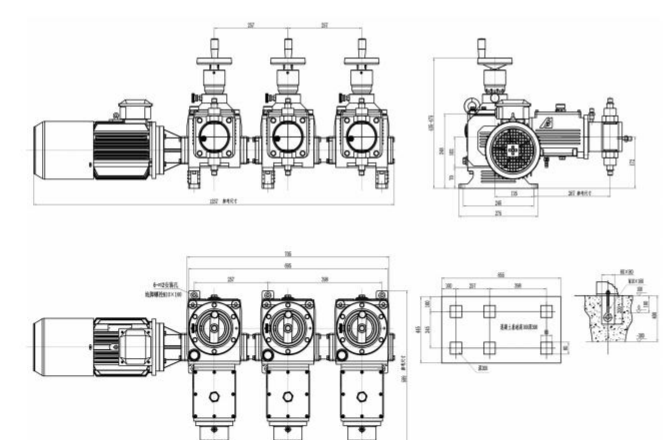
3JYM5.0X



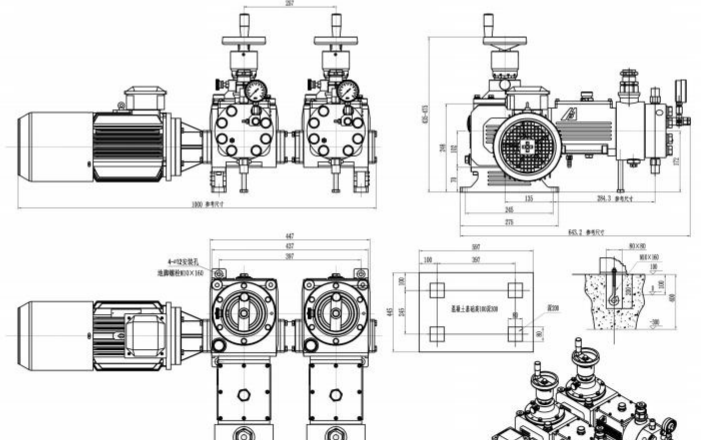
JYM5.0D



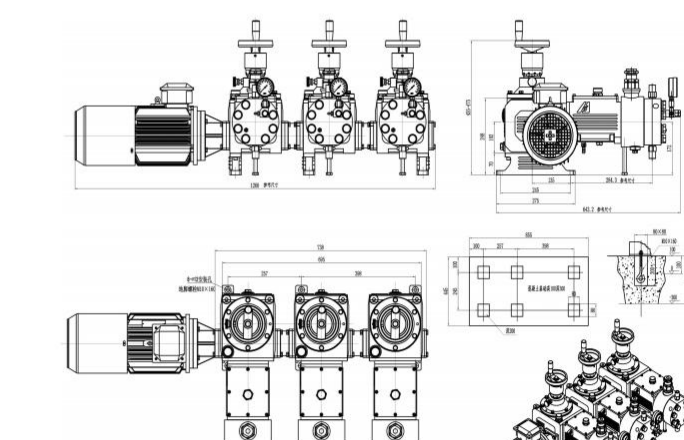
2J5.0D



3J5.0D



2JYM5.0D

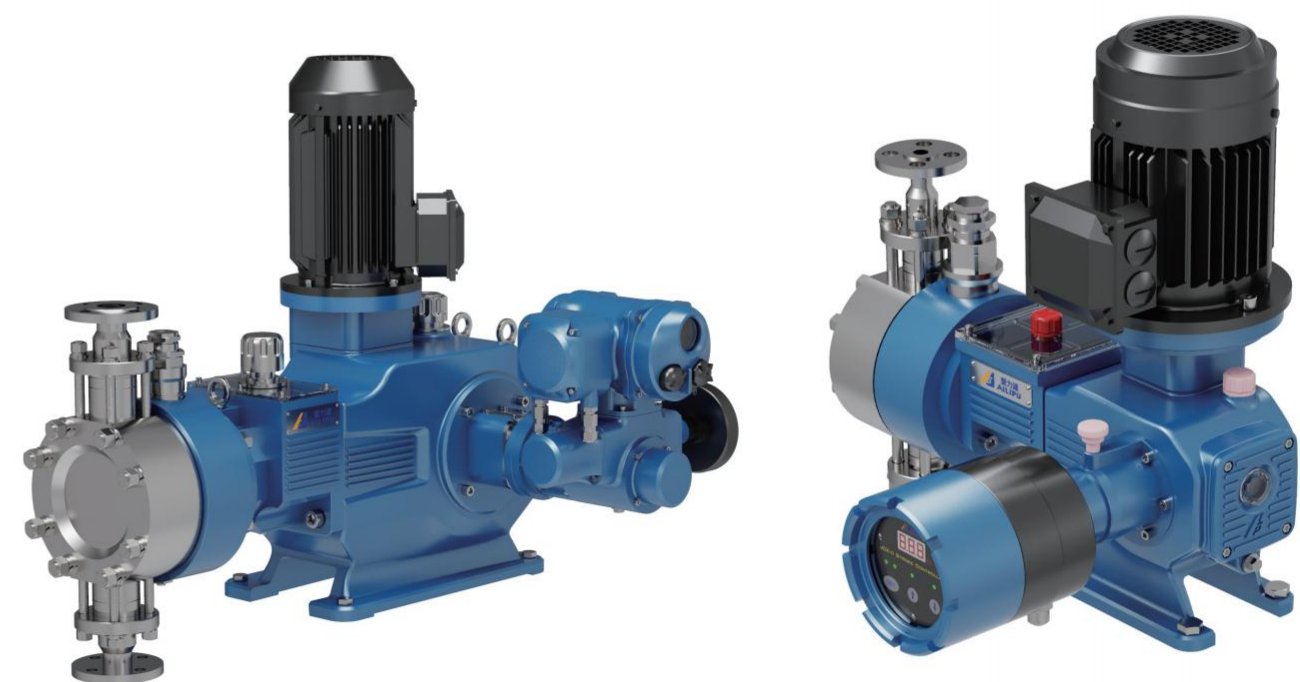


3JYM5.0D

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

G

special pump



■ Smart Ex-Proof Stroke Controller



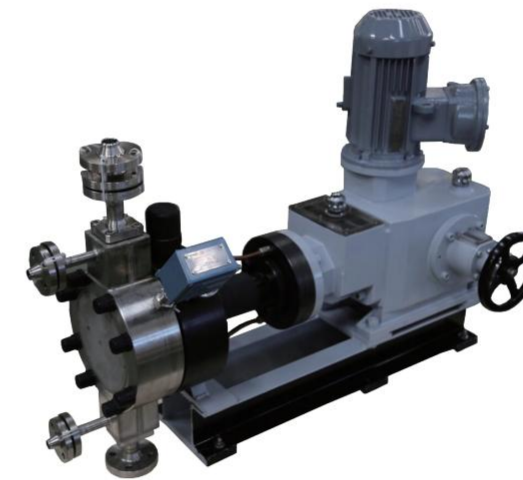
■ Smart Diagnostics Startup Alarm



■ Triple-Head Butane Pump



■ Metering Pump With Diaphragm Rupture Alarm



■ Remote Transmission Ultra-high Temperature Diaphragm Metering Pump



■ Low Temperature (Cooling) Diaphragm Metering Pump



■ Digital Controller



■ High Vibration Chemical Metering Pump



■ Pump Skid With Damper



■ Low Vibration and Low Noise Metering Pump