



JBS SERIES

METERING PUMP

SELECTION BROCHURE

Main performance parameters

Max flow rate: 500L/h

Max discharge pressure: 360bar

Adjustment range: 10%-100% Steady-state accuracy: $\pm 1\%$

Max suction lift height: 2.5m

Main Features

1. 1. Strudy and compact design, small pump head volume.
2. 2. The plunger directly acts on the compression medium, with high volumetric efficiency and less transmission loss at high pressure.
3. 3. Suitable for high-pressure application, suitable for conveying media without solid particles, capable of conveying high viscosity media. It is not recommended to use it when transporting corrosive slurries and flammable and explosive hazardous chemicals.
4. 4. Variable eccentric adjustment mechanism ensures flow regulation accuracy and smooth flow changes.
5. 5. Adopting a multi pass combination sealing structure of "graphite fiber + step seal" with excellent wear resistance and corrosion resistance.

Control Mode

Power supply: 380V/three-phase, 220V/single-phase, 220/three-phase, 50Hz/60Hz.

By installing a variable frequency controller to receive external control signals, the stroke speed can be adjusted.

Input signal: 4-20mA analog signal.

The switch controller controls the three-phase motor in an "on/off" manner to regulate the output flow rate.

Main Application

Various fields such as oil and chemical industry, chemical industry, electricity, metallurgy, etc., especially in high-precision and high-pressure fields

Technical Parameter

Main Components of Liquid End

Liquid End	Pump Head	Valve Body	Valve Seat	Valve Ball	Plunger	Packing Seal	O Ring
SS316	SS316	SS316	SS316	SS304/ Ceramic	SS316+ Ceramic	Graphite carbon fiber+ step-seal	FPM/PVDF/EPDM*/Coated PTFE*
SS304	SS304	SS304	SS304	SS304/ Ceramic	SS316+ Ceramic	Graphite carbon fiber+ step-seal	FPM/PVDF/EPDM*/Coated PTFE*

Note: * is optional.

Model Identification Codes

Description	Series	Flow	Liquid End	Connection	Motor	Adjust	Base
ID Code							

Series

Code	Description
JBS	JBS series plunger metering pump

Flow

Code	Max Flow (L/h)	Max Pressure (Mpa)	Plunger (mm)	Power (kW)	SPM (min ⁻¹)	Stroke Length (mm)
JBS500/0.8	500	0.8	70	0.75	144	16
JBS500/0.5		0.5		0.55		
JBS430/0.9	430	0.9	65	0.75		
JBS430/0.6		0.6		0.55		
JBS360/1.0	360	1.0	60	0.75		
JBS360/0.7		0.7		0.55		
JBS320/1.2	320	1.2	56	0.75		
JBS320/0.8		0.8		0.55		
JBS250/1.5	250	1.5	50	0.75		
JBS250/1.0		1.0		0.55		

JBS200/1.8	200	1.8	45	0.75		
JBS200/1.2		1.2		0.55		
JBS160/2.3	160	2.3	40	0.75		
JBS160/1.6		1.6		0.55		
JBS120/3.0	120	3.0	35	0.75		
JBS120/2.0		2.0		0.55		
JBS90/4.1	90	4.1	30	0.75		
JBS90/2.8		2.8		0.55		
JBS60/5.9	60	5.9	25	0.75		
JBS60/4.0		4.0		0.55		
JBS45/7.6	45	7.6	22	0.75		
JBS45/5.2		5.2		0.55		
JBS38/9.2	38	9.2	20	0.75		
JBS38/6.3		6.3		0.55		
JBS30/11.3	30	11.3	18	0.75		
JBS30/7.8		7.8		0.55		
JBS20/16.4	20	16.4	15	0.75		
JBS20/11.0		11.0		0.55		
JBS11/25.0	11	25.0	12	0.75		
JBS11/17.0	13	17.0		0.55		
JBS7/36.0	7	36.0	10	0.75		
JBS7/25.0	8	25.0		0.55		

Liquid End

Code	Description
S	SS304
L	SS316
Z	Others on request

Connection

Code	Description	JBS7-60	JBS90-360	JBS430-500	
P	NPT thread	1/2"M	1/2"F	1" M	
F	Flange	DN15	DN20	DN25	
K	Welding Union	DN15	-----	-----	-----
X	Others on request				

Motor

Code	Description
1	3PH 380V, 50Hz, 1440rpm, IP55/F
2	1PH 220V, 50Hz, 1440rpm, IP55/F
3	Ex proof motor, 3PH 380V, 50Hz, 1440rpm, IP55/F, Ex d II BT4
4	VF motor, 3PH 380V, 50Hz, 1440rpm, IP55/F, VF Motor IC416
5	Without motor, with IEC71 motor base
6	Without motor, with IEC80 motor base
7	Others on request

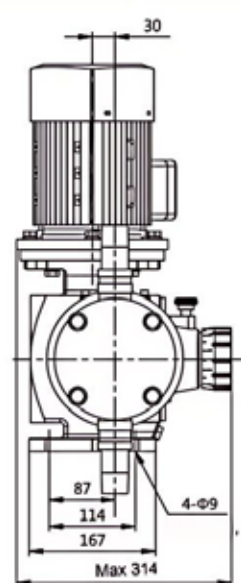
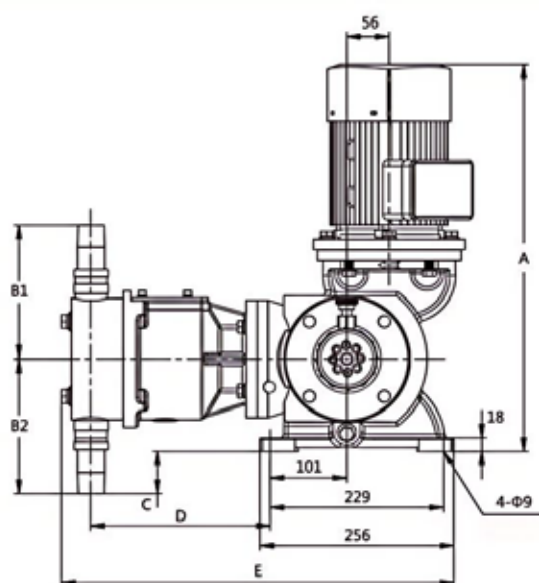
Adjust

Code	Description
M	Manual Adjust (standard)
N	Stroke controller(, 4-20mA, 220VAC-1Ph)

Base

Code	Description
N	Without pump base (standard)
Y	With pump base

JBS serial Dimension



Code	Motor (kW)	A(mm)	B1 (mm)	B2 (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)		
JBS500/0.8	0.75	520	178	178	56	237	519	50±5		
JBS500/0.5	0.55	463								
JBS430/0.9	0.75	520								
JBS430/0.6	0.55	463								
JBS360/1.0	0.75	520	112	112	10	239	505			
JBS360/0.7	0.55	463								
JBS320/1.2	0.75	520	110	110	12					
JBS320/0.8	0.55	463								
JBS250/1.5	0.75	520	107	107	15					
JBS250/1.0	0.55	463								
JBS200/1.8	0.75	520	105	105	17					
JBS200/1.2	0.55	463								
JBS160/2.3	0.75	520	102	102	20					
JBS160/1.6	0.55	463								
JBS120/3.0	0.75	520	100	100	22					
JBS120/2.0	0.55	463								
JBS90/4.1	0.75	520	97	97	25					
JBS90/2.8	0.55	463								
JBS60/5.9	0.75	520	135	137	15				250	516
JBS60/4.0	0.55	463								
JBS45/7.6	0.75	520								
JBS45/5.2	0.55	463	133	135	13					
JBS38/9.2	0.75	520								
JBS38/6.3	0.55	463								
JBS30/11.3	0.75	520	135	137	15					
JBS30/7.8	0.55	463								
JBS20/16.4	0.75	520								
JBS20/11.0	0.55	463								
JBS11/25.0	0.75	520								
JBS11/17.0	0.55	463								
JBS7/36.0	0.75	520								
JBS7/25.0	0.55	463								

