

CONTENTS

Pneumatic Sanitary Diaphragm Pump

QBW3-25.....01-02

QBW3-40.....03-04

QBW3-50.....05-06

QBW3-80.....07-08

Electric Sanitary Diaphragm Pump

DBW3/S-25.....09-10

DBW3/S-40.....11-12

DBW3/S-50.....13-14

DBW3/S-80.....15-16

Explanation of Pump Nomenclature

QBW3 - 40 P H F P

Model of Pneumatic Sanitary Diaphragm Pump

Inlet Diameter

Material of Fluid Contact Parts

Material of Diaphragm

Material of Valve Ball

Material of Ball Seat

Fluid Contact Parts

Cast Steel	Nodular Cast Iron	Aluminum Alloy	Engineering Plastics	Stainless Steel 304	Stainless Steel 316	Stainless Steel 316L	PVDF
G	Q	L	S	P	P316	P316L	F

Diaphragm

Butyronitrile	Santoprene	Polyether	Teflon	Super Teflon
D	A	M	T	N
Santoprene +Teflon	Santoprene +Super Teflon	Polyether +Teflon	Polyether +Super Teflon	
T	N	K	H	

Valve Ball & Ball Seat

Butyronitrile	Santoprene	PTFE	Stainless Steel 304	Stainless Steel 316	Stainless Steel 316L	Engineering Plastics
D	A	F	P	P316	P316L	S

DBW3 - S B 40 P H F P

Model of Electric Sanitary Diaphragm Pump

High Pressure

Motor Type

Inlet Diameter

Material of Fluid Contact Parts

Material of Diaphragm

Material of Valve Ball

Material of Ball Seat

Fluid Contact Parts

Cast Steel	Nodular Cast Iron	Aluminum Alloy	Engineering Plastics	Stainless Steel 304	Stainless Steel 316	Stainless Steel 316L	PVDF
G	Q	L	S	P	P316	P316L	F

Diaphragm

Butyronitrile	Santoprene	Polyether	Teflon	Super Teflon
D	A	M	T	N
Santoprene +Teflon	Santoprene +Super Teflon	Polyether +Teflon	Polyether +Super Teflon	
T	N	K	H	

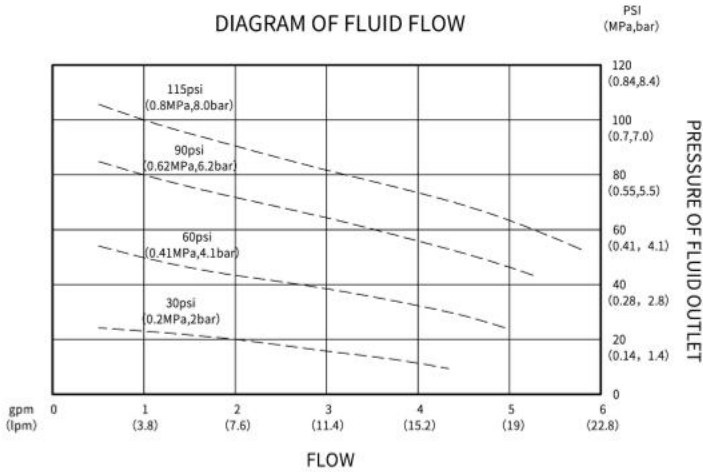
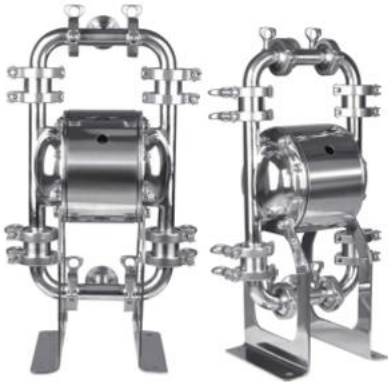
Valve Ball & Ball Seat

Butyronitrile	Santoprene	PTFE	Stainless Steel 304	Stainless Steel 316	Stainless Steel 316L	Engineering Plastics
D	A	F	P	P316	P316L	S

QBW3-25

Pneumatic Sanitary Diaphragm Pump

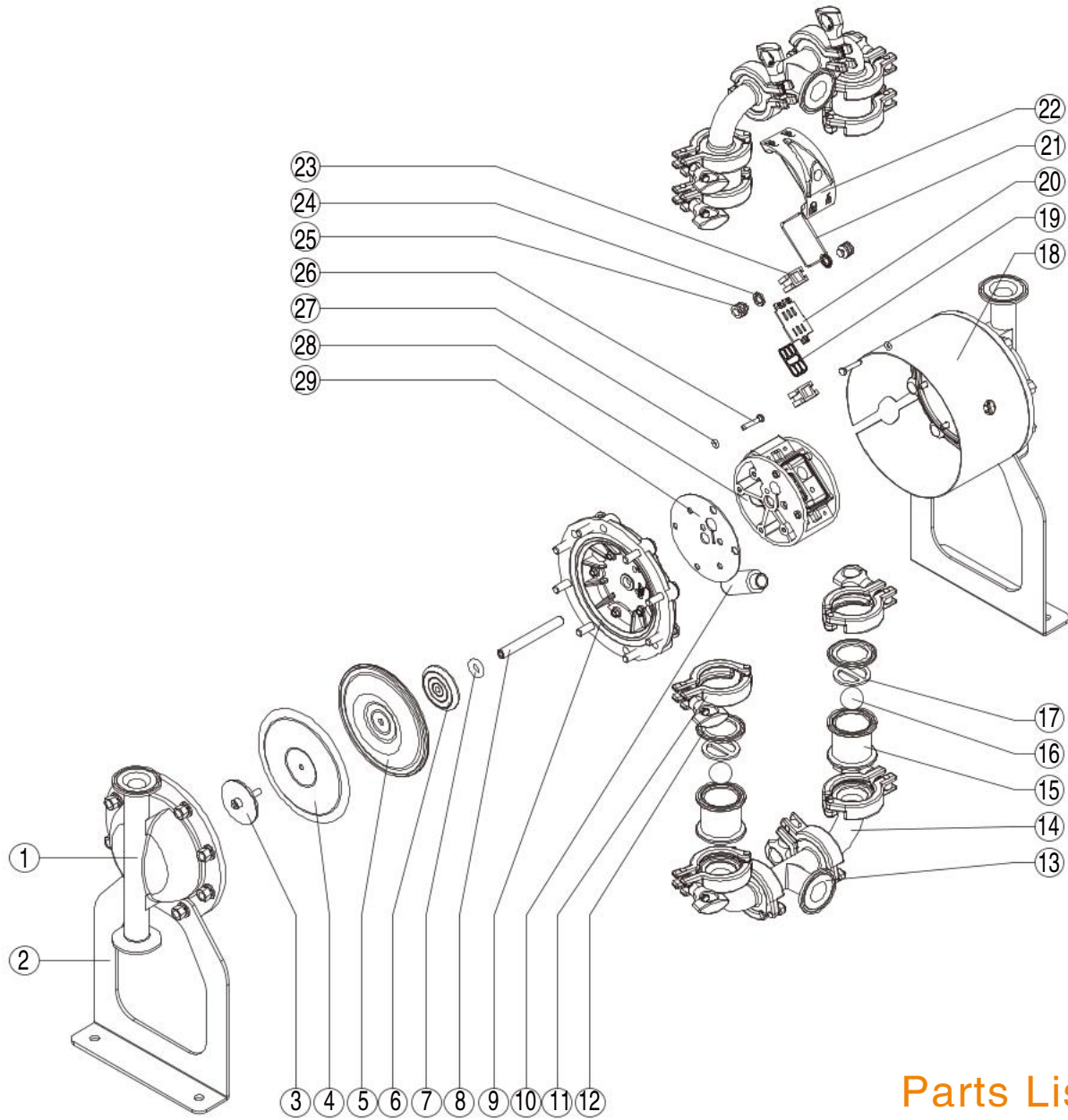
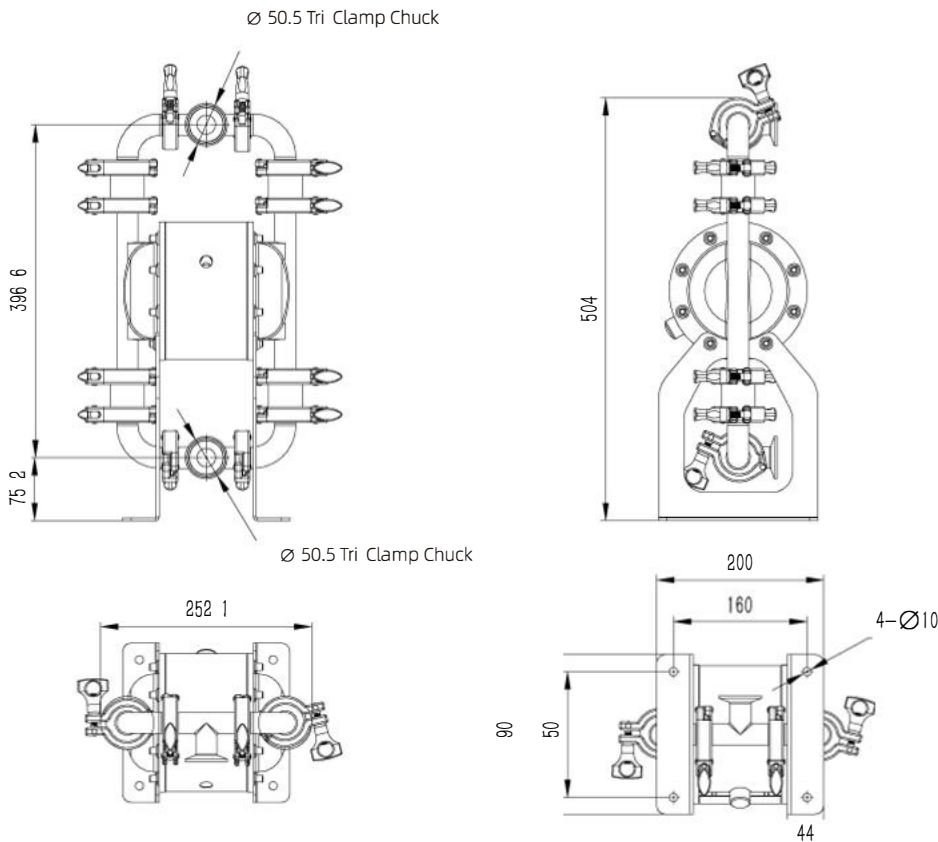
Performance Curve



Specifications

Max. Flow	15 gpm (57 lpm)	Max. Suction Height (dry suction or wet suction)	15 ft. (4.5 m)
Max. Working Pressure	100 psi (0.7 Mpa, 7bar)	Max. Permitted Grain	3/32 in. (2.5 mm)
Fluid Inlet Size	3/4 in. bsp (f) / 1 in. bsp (f)	Every Reciprocating Flow	0.04 gal. (0.15 L)
Fluid Outlet Size	3/4 in. bsp (f) / 1 in. bsp (f)	Max. Reciprocating Speed	400 cpm
Air Inlet Size	1/4 in. bsp (f)		

Installation Drawing

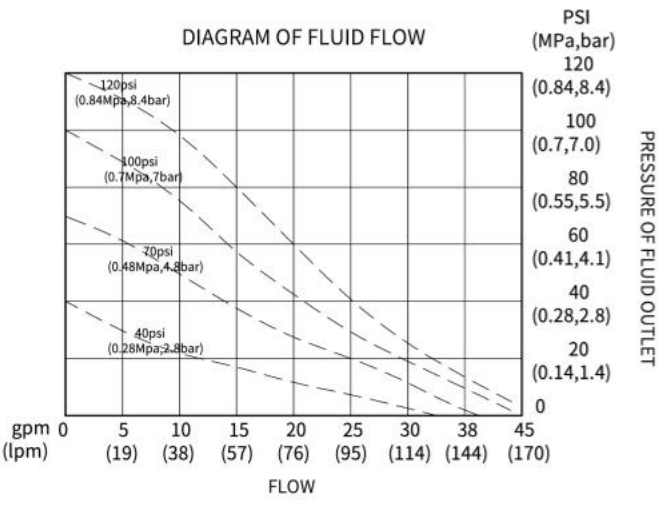


Parts List

No.	Name	No.	Name	No.	Name	No.	Name
01	Stand Column	02	Supporting Leg	03	Outer Splint	04	Teflon Diaphragm
05	Santoprene Diaphragm	06	Inner Splint	07	Connecting Rod Axis O-ring	08	Connecting Rod Axis
09	Clap Board	10	Muffler	11	Clamp	12	Tri-clamp Washer
13	Inlet/Outlet Pipe	14	Tri-clamp Elbow Pipe	15	Ball Seat	16	Valve Ball
17	Ball Seat Baffle Plate	18	Protecting Cover	19	Boot Block Washer	20	Boot Block
21	Air Valve Cover O-ring	22	Air Valve Cover	23	Small Slider	24	Piston V-ring
25	Piston	26	Booster Power Lever	27	Booster Power Lever O-ring	28	Air Valve Chamber
29	Air Valve Chamber Washer						

QBW3-40

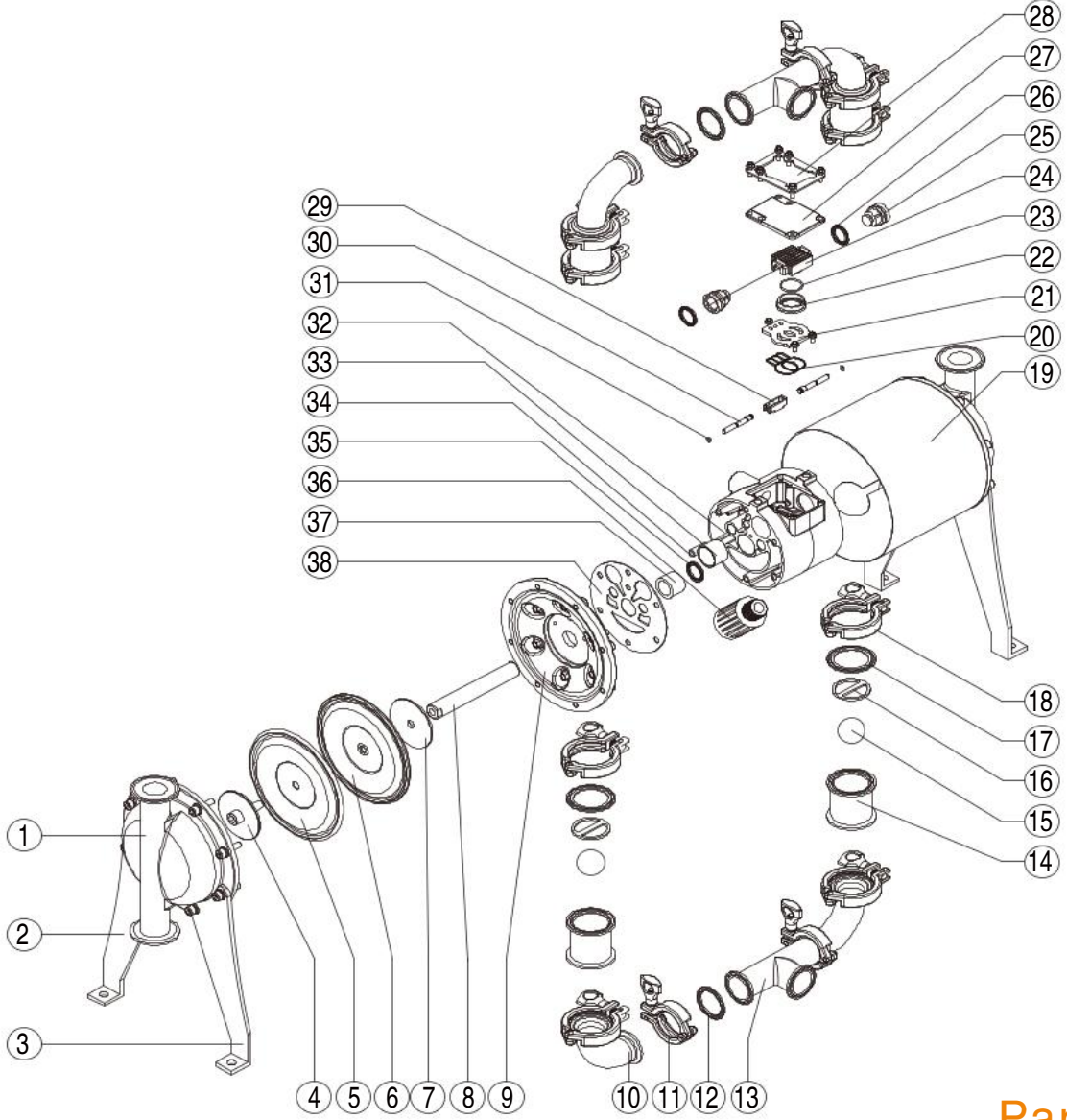
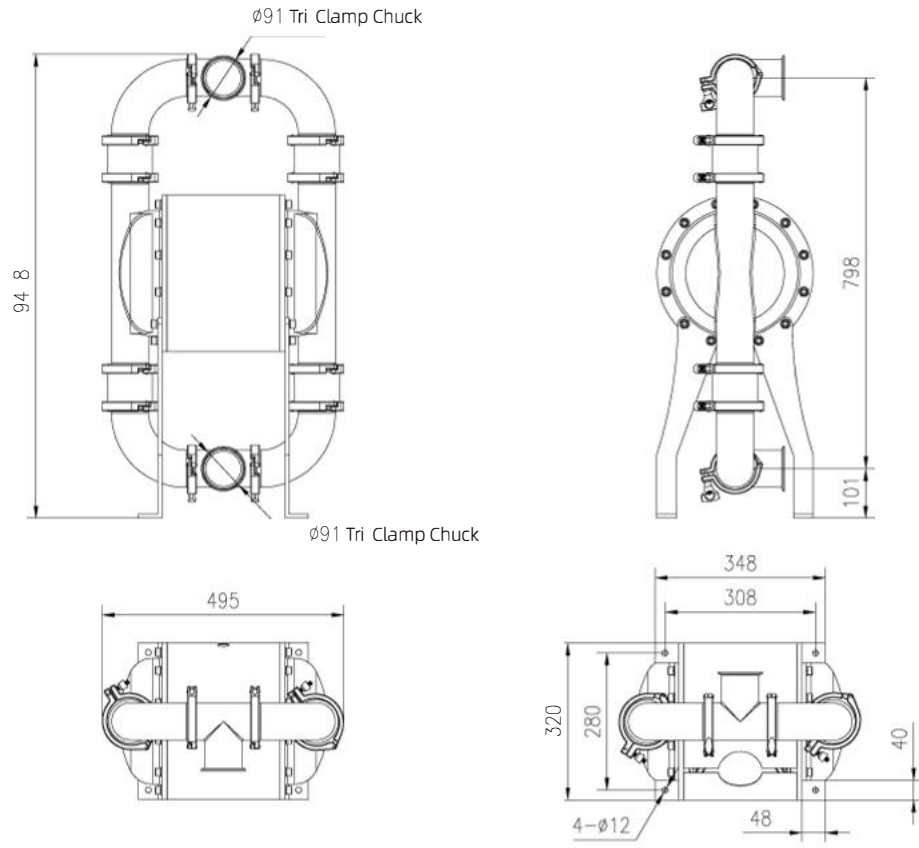
Pneumatic Sanitary Diaphragm Pump
Performance Curve



Specifications

Max. Flow	150 gpm (568 lpm)	Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)	Max. Permitted Grain	1/4 in. (6.4 mm)
Fluid Inlet Size	3 in. bsp (f) / 4 in. bsp (f)	Every Reciprocating Flow	1.03 gal. (3.90 L)
Fluid Outlet Size	3 in. bsp (f) / 4 in. bsp (f)	Max. Reciprocating Speed	145 cpm
Air Inlet Size	1/2 in. bsp (f)		

Installation Drawing



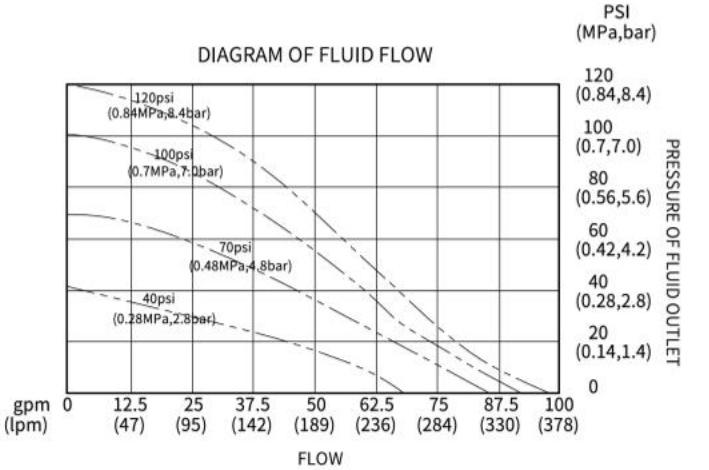
Parts List

No. 序号No.	Name	No. 序号No.	Name	No. 序号No.	Name	No. 序号No.	Name
01	Stand Column	02	Supporting Leg (Left)	03	Supporting Leg (Right)	04	Outer Splint
05	Teflon Diaphragm	06	Santoprene Diaphragm	07	Inner Splint	08	Connecting Rod Axis
09	Clap Board	10	Tri-clamp Elbow Pipe	11	Clamp (Small)	12	Tri-clamp Washer (Small)
13	Inlet/Outlet Pipe	14	Ball Seat	15	Valve Ball	16	Ball Seat Baffle Plate
17	Tri-clamp Washer (Large)	18	Clamp (Large)	19	Protecting Cover	20	Boot Block Washer
21	Boot Block	22	Large Slider Seat	23	Large Slider O-ring	24	Large Slider
25	Piston	26	Piston V-ring	27	Air Valve Cover Washer	28	Air Valve Chamber Cover
29	Small Slider	30	Booster Power Lever	31	Booster Power Lever O-ring	32	Air Valve Chamber
33	Piston Sleeve	34	Booster Power Lever Sleeve	35	V-ring	36	Muffer
37	Connecting Rod Axis Sleeve	38	Air Valve Chamber Washer				

QBW3-50

Pneumatic Sanitary Diaphragm Pump

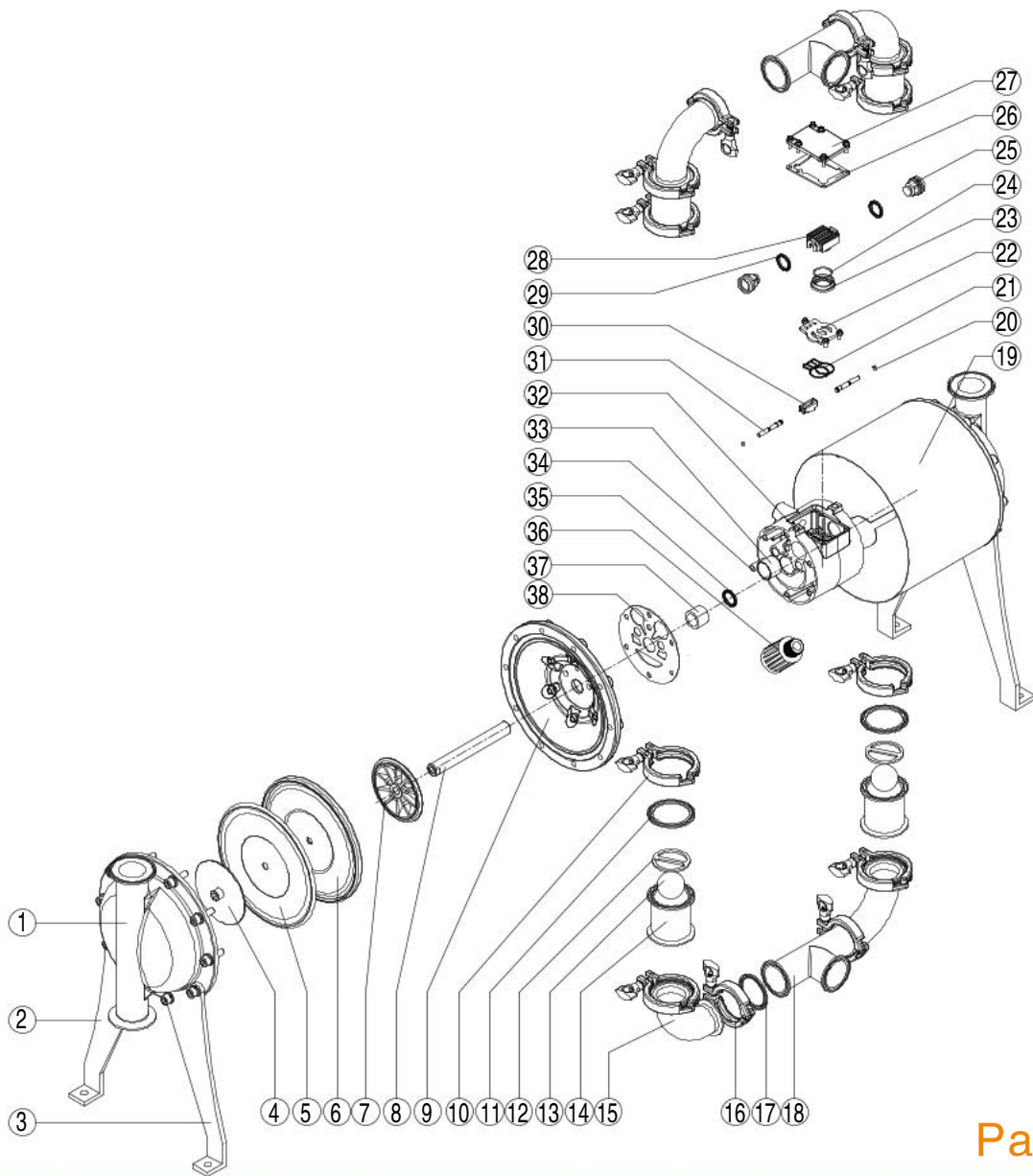
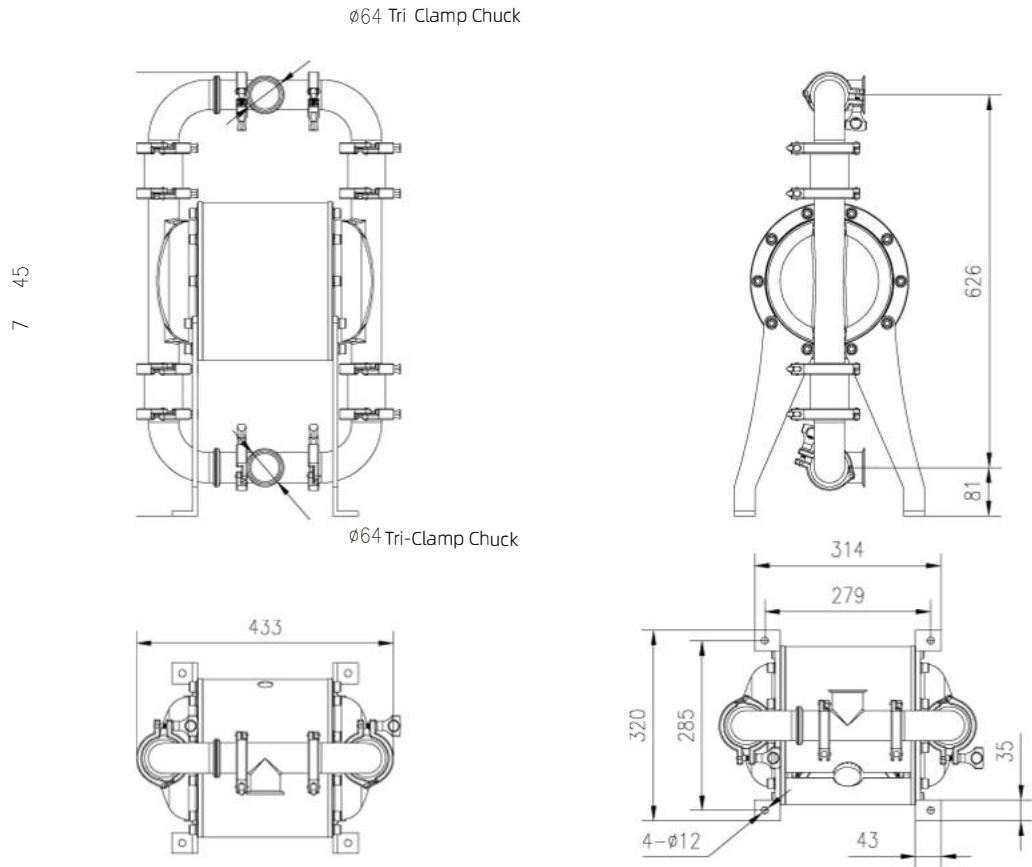
Performance Curve



Specifications

Max. Flow	100 gpm (378.5 lpm)	Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)	Max. Permitted Grain	3/16 in. (4.8 mm)
Fluid Inlet Size	2 in. bsp (f) / 2-1/2 in. bsp (f)	Every Reciprocating Flow	0.5 gal. (1.9 L)
Fluid Outlet Size	2 in. bsp (f) / 2-1/2 in. bsp (f)	Max. Reciprocating Speed	200 cpm
Air Inlet Size	1/2 in. bsp (f)		

Installation Drawing



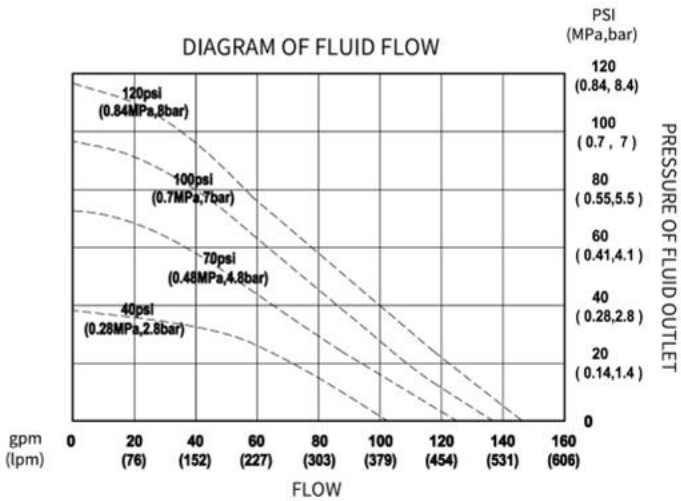
Parts List

No.	Name	No.	Name	No.	Name	No.	Name
01	Stand Column	02	Supporting Leg (Left)	03	Supporting Leg (Right)	04	Outer Splint
05	Teflon Diaphragm	06	Santoprene Diaphragm	07	Inner Splint	08	Connecting Rod Axis
09	Clap Board	10	Clamp (Large)	11	Tri-clamp Washer (Large)	12	Ball Seat Baffle Plate
13	Valve Ball	14	Ball Seat	15	Tri-clamp Elbow Pipe	16	Clamp (Small)
17	Tri-clamp Washer (Small)	18	Inlet/Outlet Pipe	19	Protecting Cover	20	Booster Power Lever O-ring
21	Boot Block Washer	22	Boot Block	23	Large Slider Seat	24	Large Slider O-ring
25	Piston	26	Air Valve Cover Washer	27	Air Valve Chamber Cover	28	Large Slider
29	Piston V-ring	30	Small Slider	31	Booster Power Lever	32	Air Valve Chamber
33	Piston Sleeve	34	Booster Power Lever Sleeve	35	V-ring	36	Muffler
37	Connecting Rod Axis Sleeve	38	Air Valve Chamber Washer				

QBW3-80

Pneumatic Sanitary Diaphragm Pump

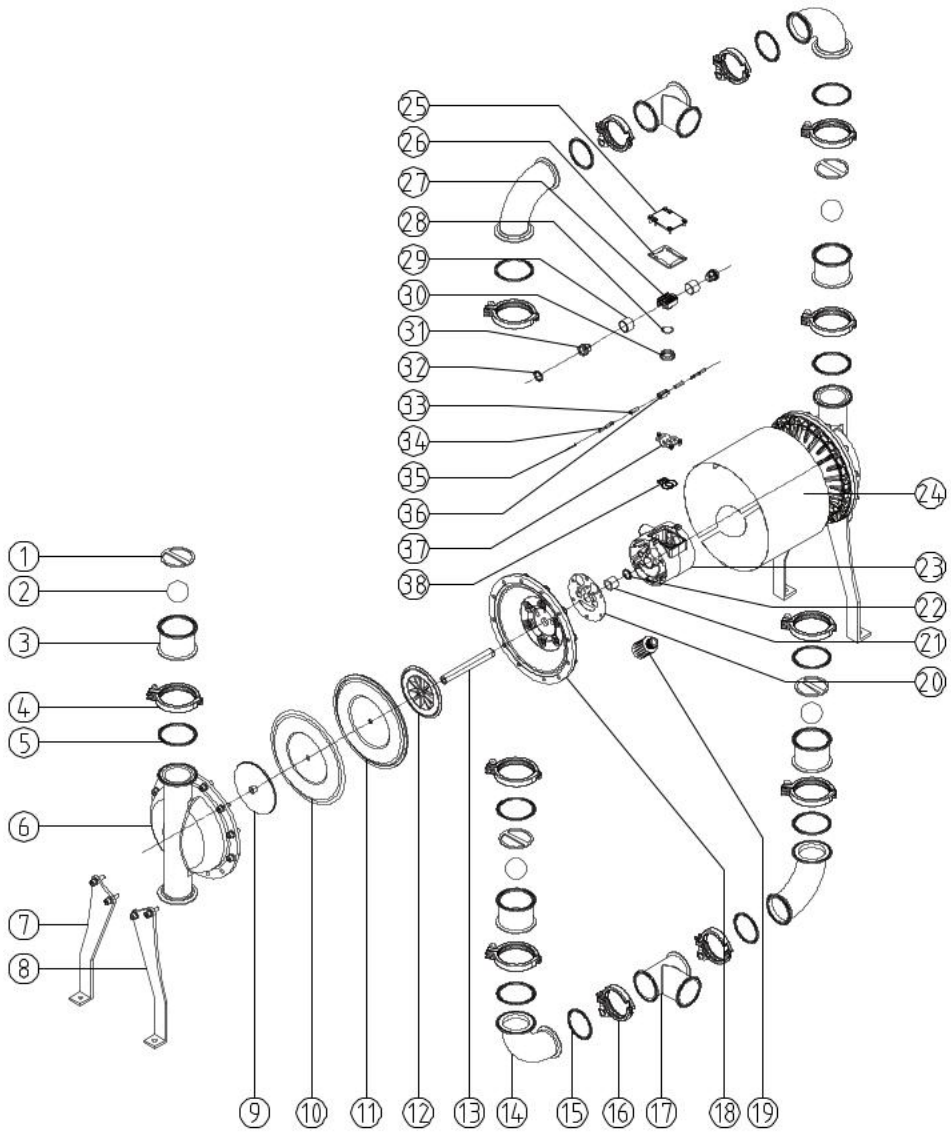
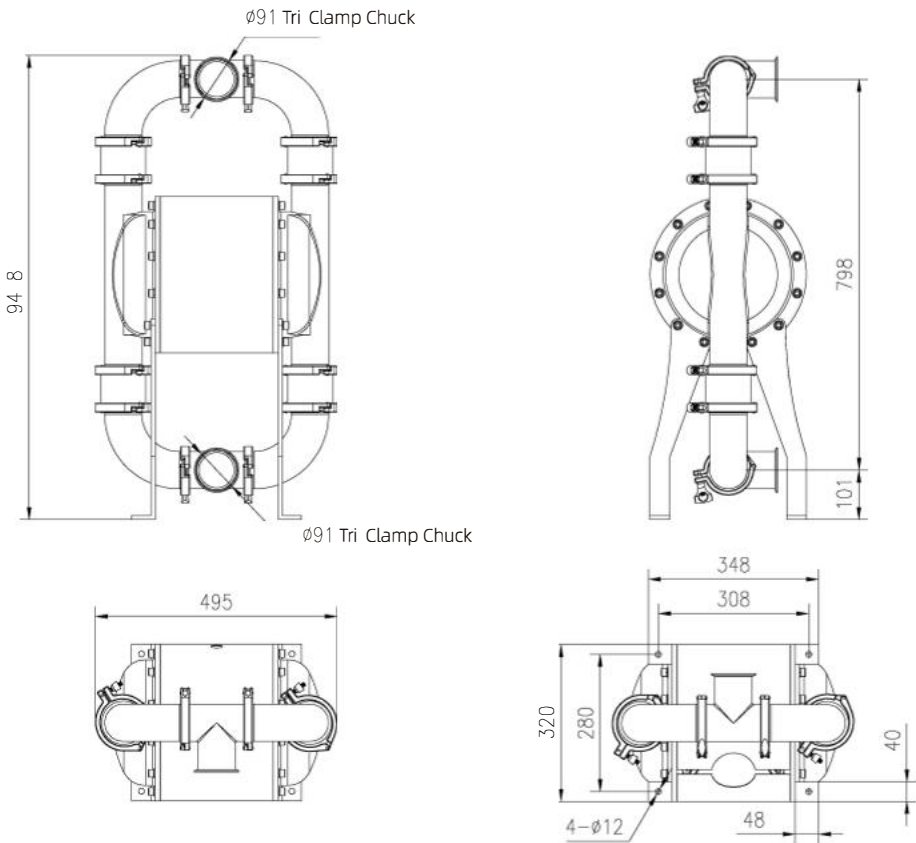
Performance Curve



Specifications

Max. Flow	150 gpm (568 lpm)	Max.Suction Height (dry suction or wet suction)	18 ft. (5.48 m)
Max. Working Pressure	120 psi (0.84 Mpa, 8.4 bar)	Max. Permitted Grain	1/4 in. (6.4 mm)
Fluid Inlet Size	3 in. bsp (f) / 4 in. bsp (f)	Every Reciprocating Flow	1.03 gal. (3.90 L)
Fluid Outlet Size	3 in. bsp (f) / 4 in. bsp (f)	Max. Reciprocating Speed	145 cpm
Air Inlet Size	1/2 in. bsp (f)		

Installation Drawing



Parts List

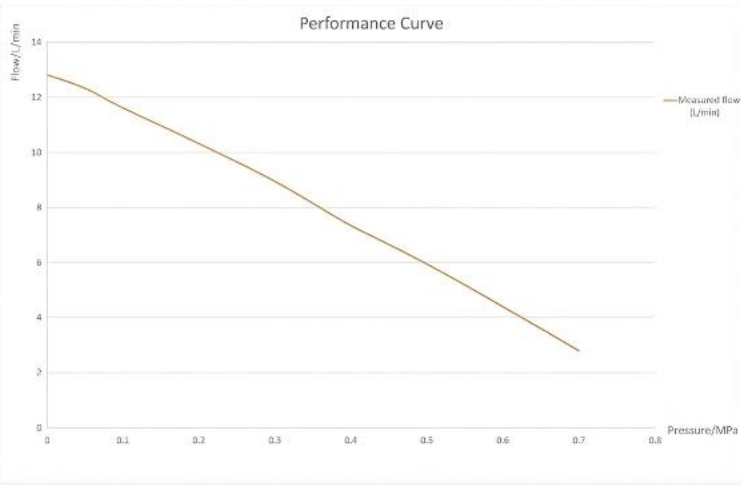
No.	Name	No.	Name	No.	Name	No.	Name
01	Ball Seat	02	Valve Ball	03	Ball Seat	04	Clamp (Large)
05	Tri-clamp Baffle Plate	06	Stand Column	07	Supporting Leg (Left)	08	Supporting Leg (Right)
09	Outer Splint	10	Santoprene Diaphragm	11	Teflon Diaphragm	12	Inner Splint
13	Connecting Rod Axis	14	Tri-clamp Elbow Pipe	15	Tri-clamp Washer (Small)	16	Clamp (Small)
17	Inlet/Outlet Pipe	18	Clap Board	19	Muffler	20	Air Valve Chamber Washer
21	Connecting Rod Axis Sleeve	22	V-ring	23	Air Valve Chamber	24	Protecting Cover
25	Air Valve Chamber Cover	26	Air Valve Cover Washer	27	Large Slider	28	Large Slider O-ring
29	Piston Sleeve	30	Large Slider Seat	31	Piston	32	Piston V-ring
33	Connecting Rod Axis Sleeve	34	Connecting Rod Axis	35	Connecting Rod Axis O-ring	36	Small Slider
37	Boot Block	38	Boot Block Washer				

DBW3/S-25

Electric Sanitary Diaphragm Pump



Performance Curve



Specifications

Max.Flow

Max.Working Pressure

Fluid Inlet Size

Fluid Outlet Size

Max.Suction height(dry suction or wet suction)

3.4gpm (12.8Lpm)

0.4Mpa / 0.7Mpa

3/4in.bsp (f)

3/4in.bsp (f)

10ft.(3m)

Max.Permitted Grain

Every Reciprocating Flow

Max.Reciprocating Speed

Outlet Pressure

Motor power

3/32in.(2.5mm)

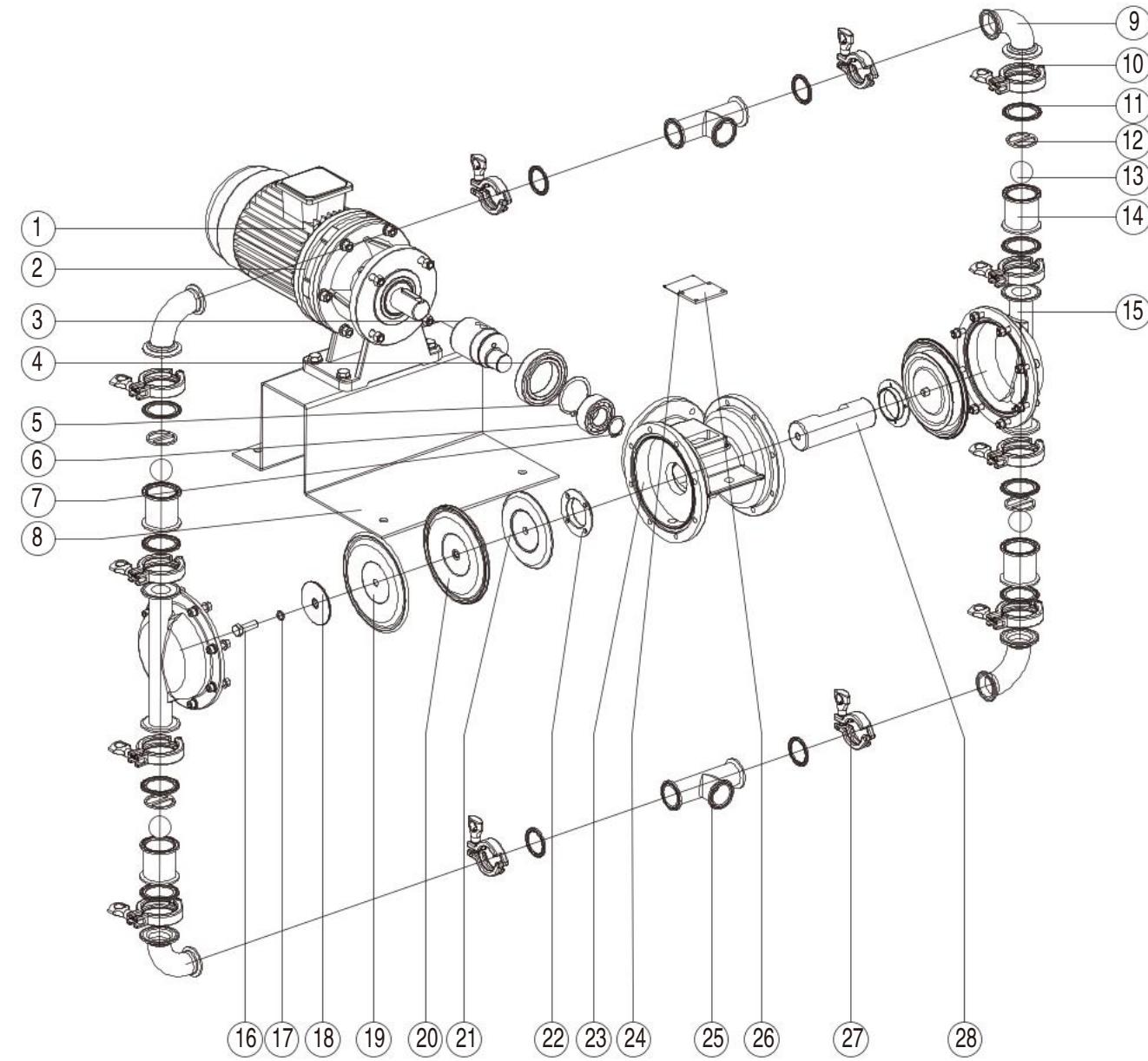
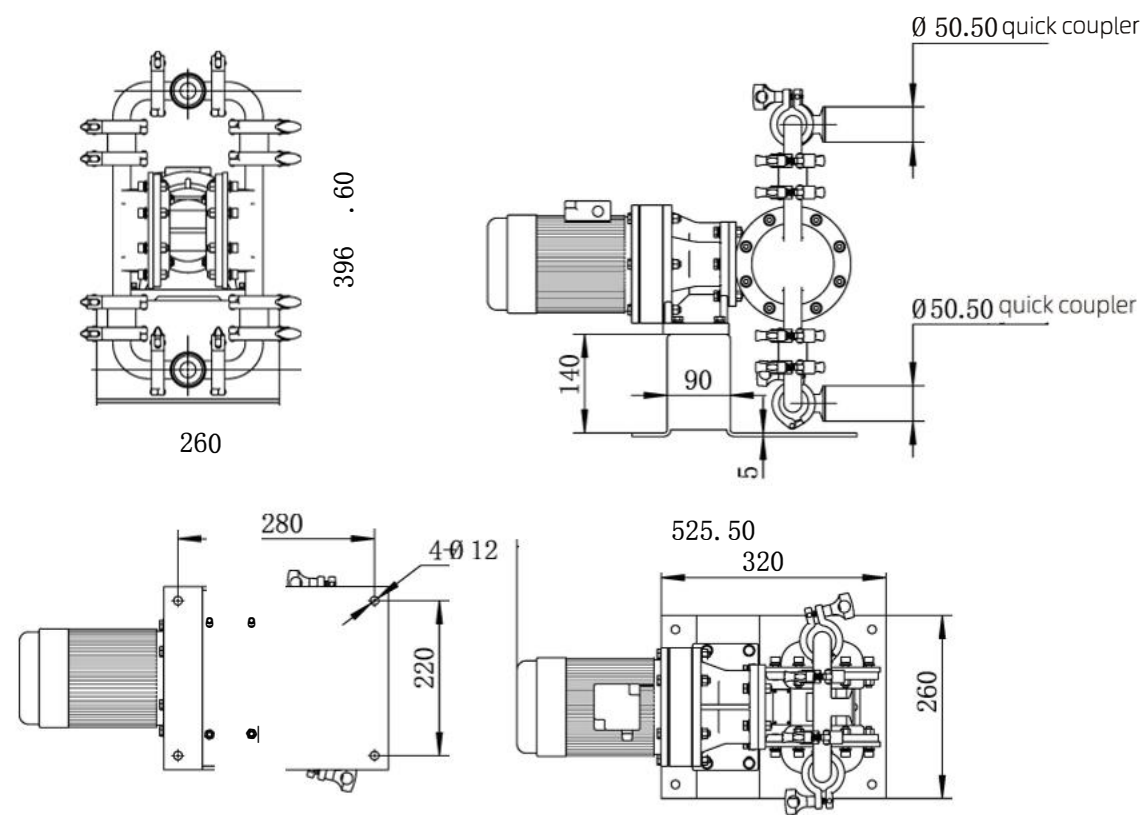
0.04gallon(0.15L)

85cpm

0.4Mpa / 0.7Mpa

0.55kw / 0.75kw

Installation Drawing



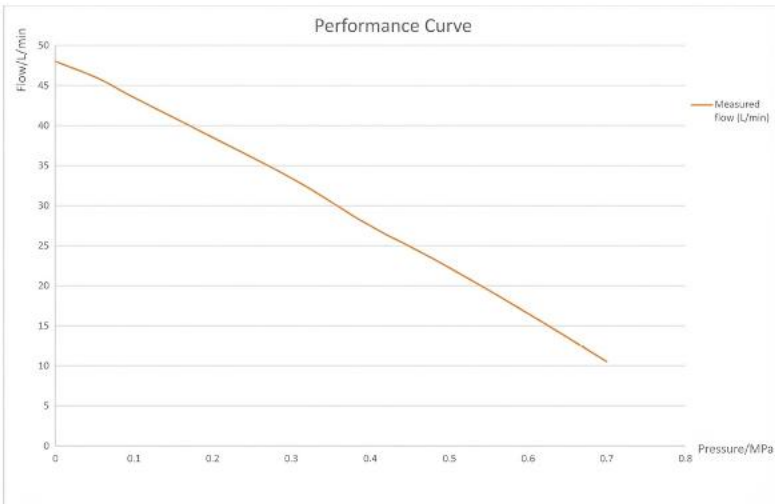
Parts List

No.	Name	No.	Name	No.	Name	No.	Name
01	Motor	02	Reducer	03	Eccentric Axis	04	Large Bearing
05	Circlip (Large)	06	Small Bearing	07	Circlip (Small)	08	Electric Base
09	Tri-clamp	10	Clamp (Large)	11	Tri-clamp Washer	12	Ball Seat Baffle Plate
13	Valve Ball	14	Ball Seat	15	Stand Column	16	Splint Screw
17	Splint O-ring	18	Outer Splint	19	Teflon Diaphragm	20	Polyether Diaphragm
21	Inner Splint	22	Connecting Rod Axis Copper Sleeve	23	Center Body	24	Nameplate
25	Inlet/Outlet Pipe	26	Inspection Window	27	Clamp (Small)	28	Connecting Rod Axis

DBW3/s-40

Electric Sanitary Diaphragm Pump

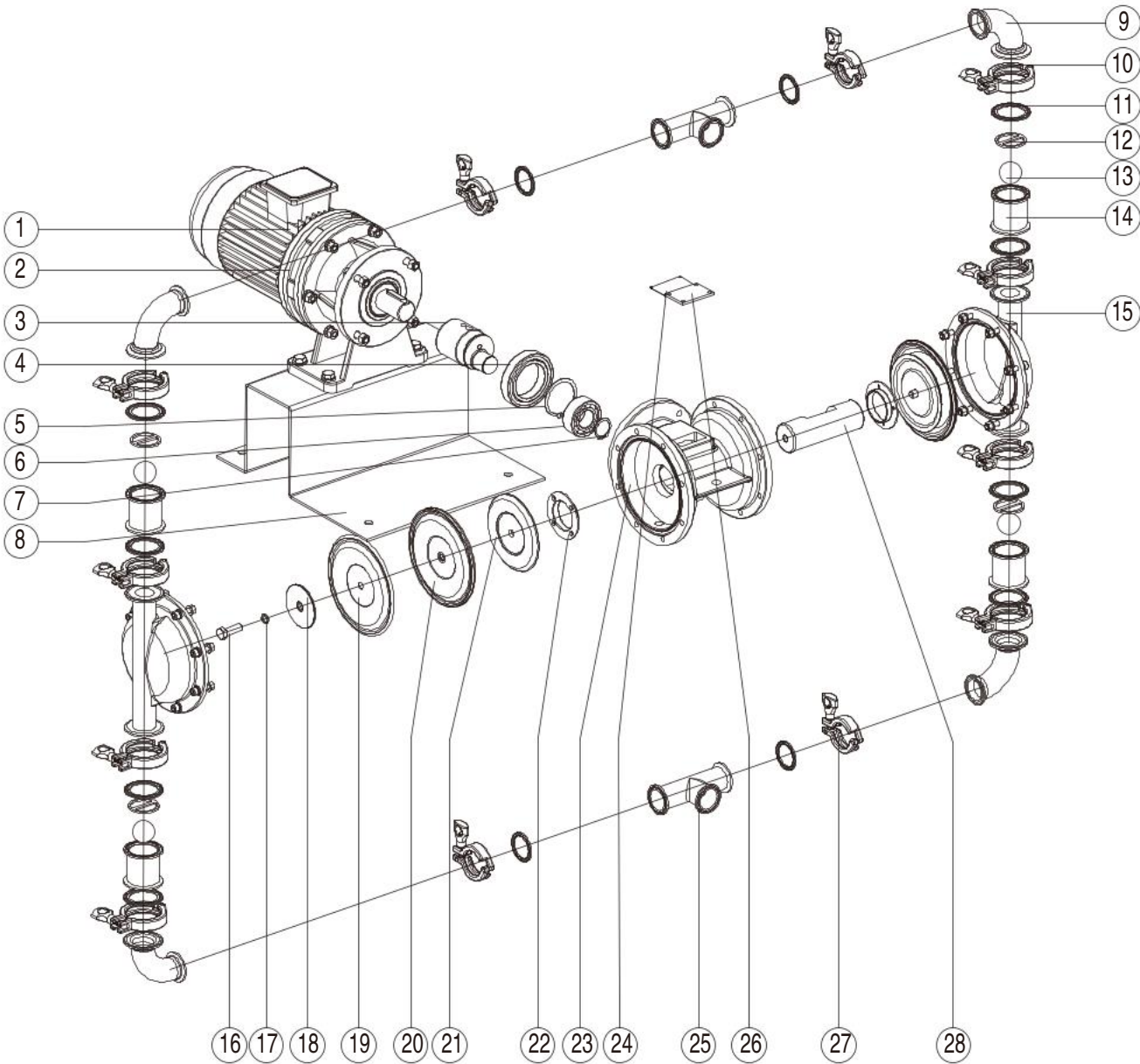
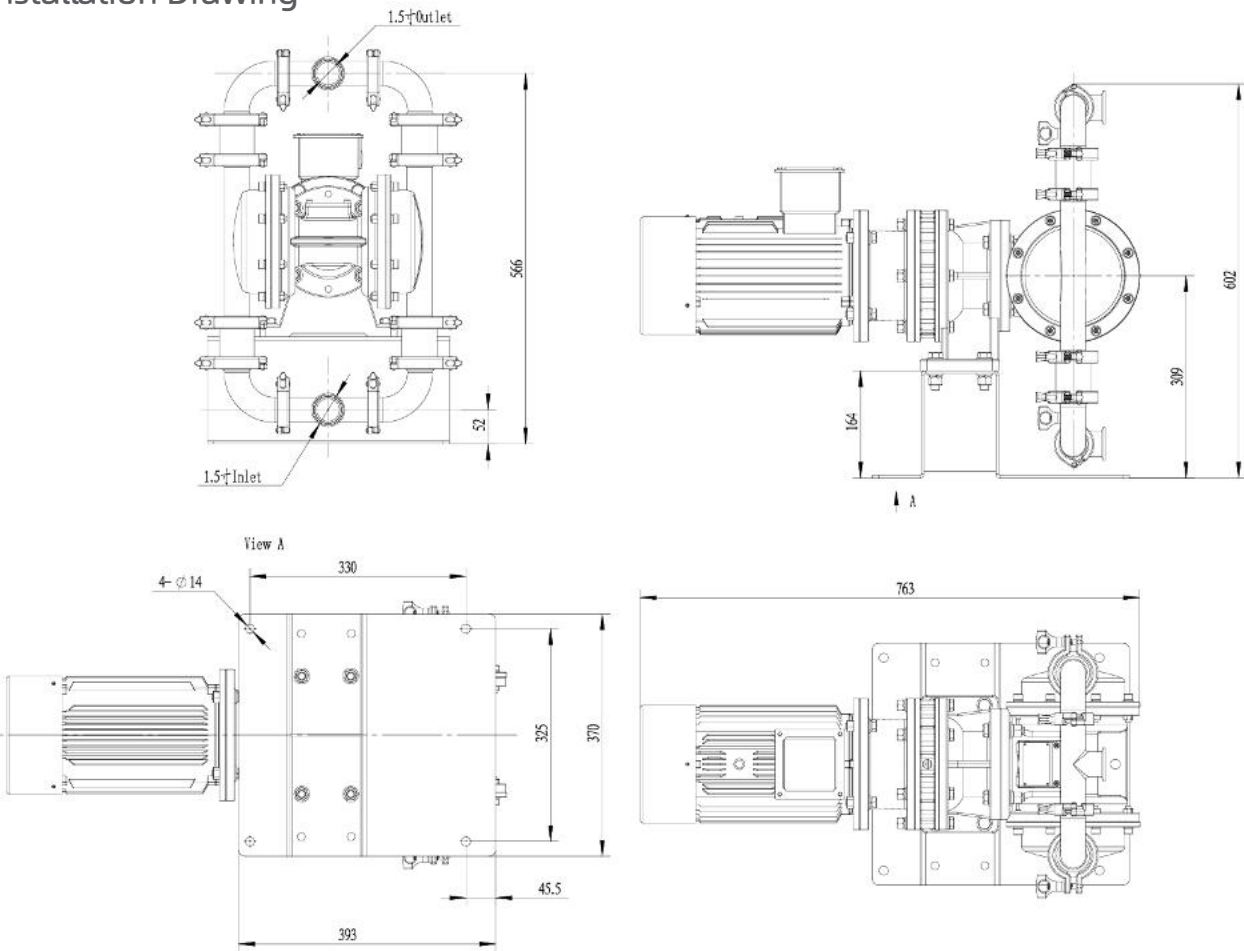
Performance Curve



Specifications

Max.Flow	12.7gpm (48Lpm)	Max.Permitted Grain	1/8in.(3.2mm)
Max.Working Pressure	0.4Mpa / 0.7Mpa	Every Reciprocating Flow	0.15gallon(0.57L)
Fluid Inlet Size	1-1/2in.bsp (f)	Max.Reciprocating Speed	85cpm
Fluid Outlet Size	1-1/2in.bsp (f)	Outlet Pressure	0.4Mpa / 0.7Mpa
Max.Suction height(dry suction or wet suction)	13ft.(4m)	Motor power	1.5kw / 2.2kw

Installation Drawing



Parts List

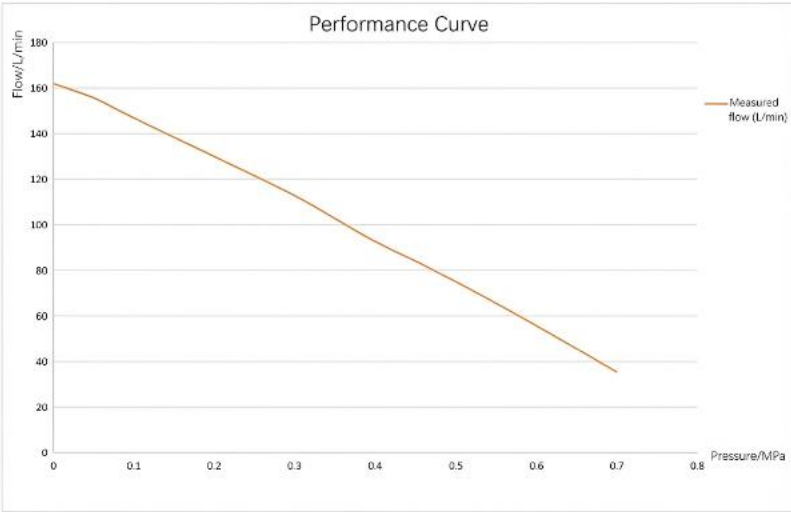
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01	Motor	02	Reducer	03	Eccentric Axis	04	Large Bearing
05	Circlip (Large)	06	Small Bearing	07	Circlip (Small)	08	Electric Base
09	Tri-clamp	10	Clamp (Large)	11	Tri-clamp Washer	12	Ball Seat Baffle Plate
13	Valve Ball	14	Ball Seat	15	Stand Column	16	Splint Screw
17	Splint O-ring	18	Outer Splint	19	Teflon Diaphragm	20	Polyether Diaphragm
21	Inner Splint	22	Connecting Rod Axis Copper Sleeve	23	Center Body	24	Nameplate
25	Inlet/Outlet Pipe	26	Inspection Window	27	Clamp (Small)	28	Connecting Rod Axis

DBW3/s-50

Electric Sanitary Diaphragm Pump



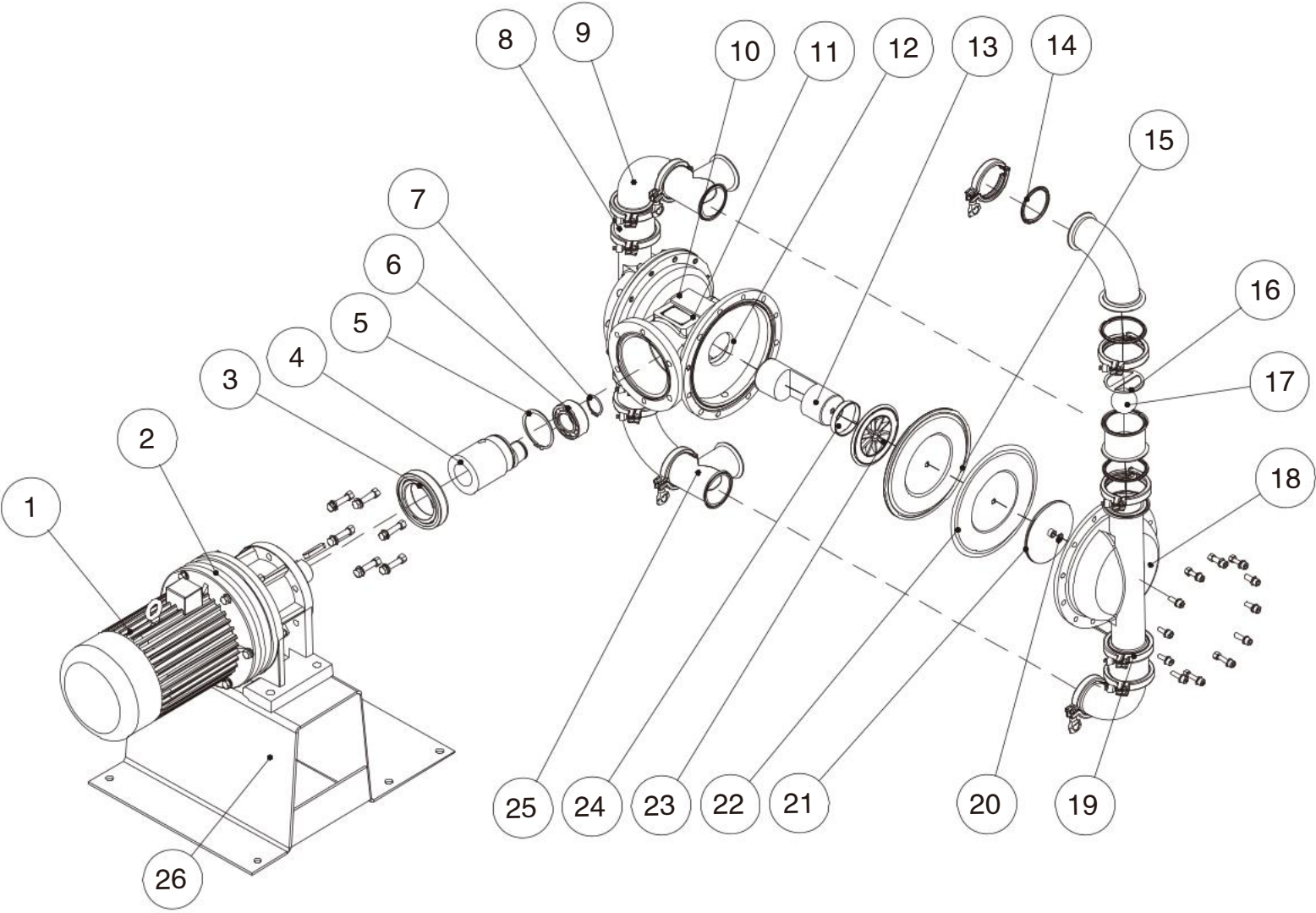
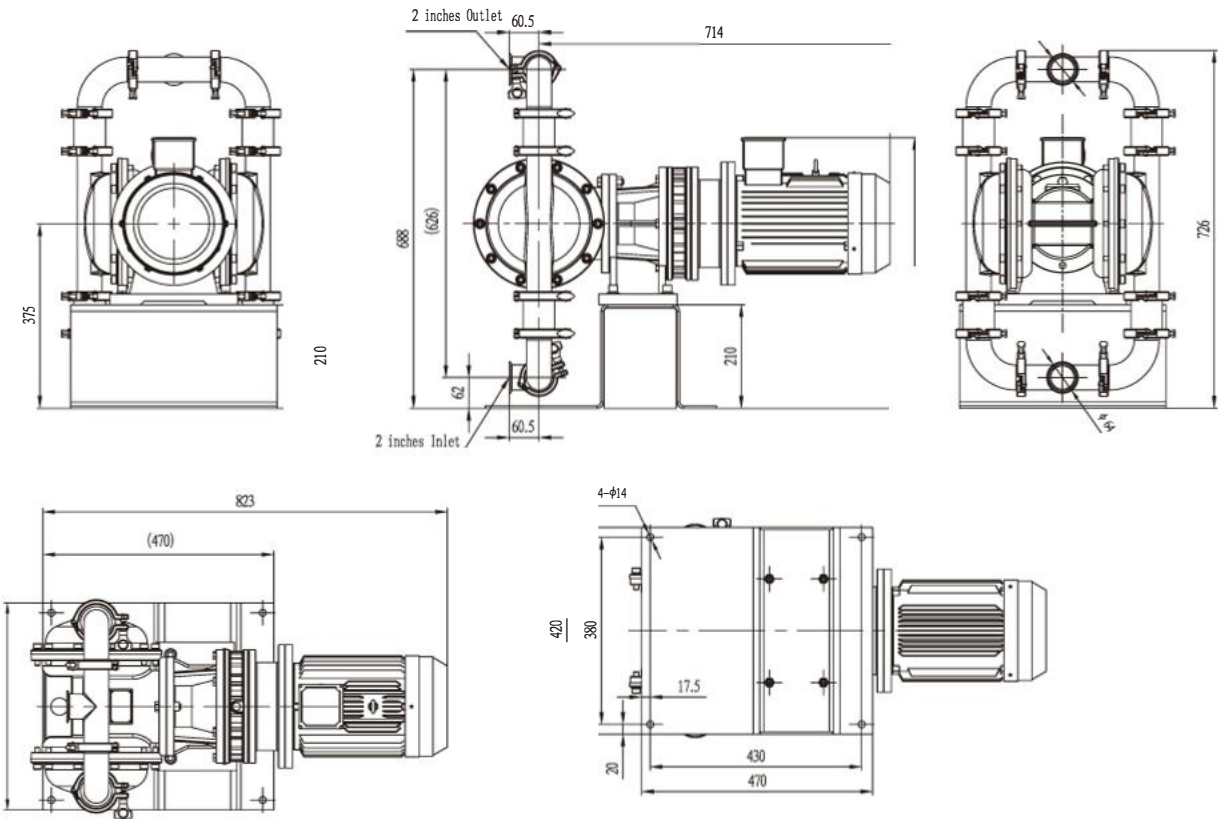
Performance Curve



Specifications

Max.Flow	42.8gpm (162lpm)	Max.Permitted Grain	3/16in.(4.8mm)
Max.Working Pressure	0.4Mpa / 0.7Mpa	Every Reciprocating Flow	0.5gallon(1.9L)
Fluid Inlet Size	2in.bsp (f)	Max.Reciprocating Speed	85cpm
Fluid Outlet Size	2in.bsp (f)	Outlet Pressure	0.4Mpa / 0.7Mpa
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	Motor power	2.2kw / 3kw

Installation Drawing



Parts List

No.	Name	No.	Name	No.	Name	No.	Name
01	Reducer	02	Base	03	Tri-clamp	04	Tri-clamp Washer (Large)
05	Ball Seat Baffle Plate	06	Clamp (Large)	07	Valve Ball	08	Ball Seat
09	Stand Column	10	Connecting Rod Axis Copper Sleeve	11	Connecting Rod Axis	12	Center Body
13	Clamp (Small)	14	Tri-clamp Washer (Small)	15	Inlet/Outlet Pipe	16	Inner Splint
17	Polyether Diaphragm	18	Teflon Diaphragm	19	Stainless Steel Outer Splint	20	Inspection Window
21	Small Circlip	22	Small Bearing	23	Large Circlip	24	Large Bearing
25	Eccentric Axis						

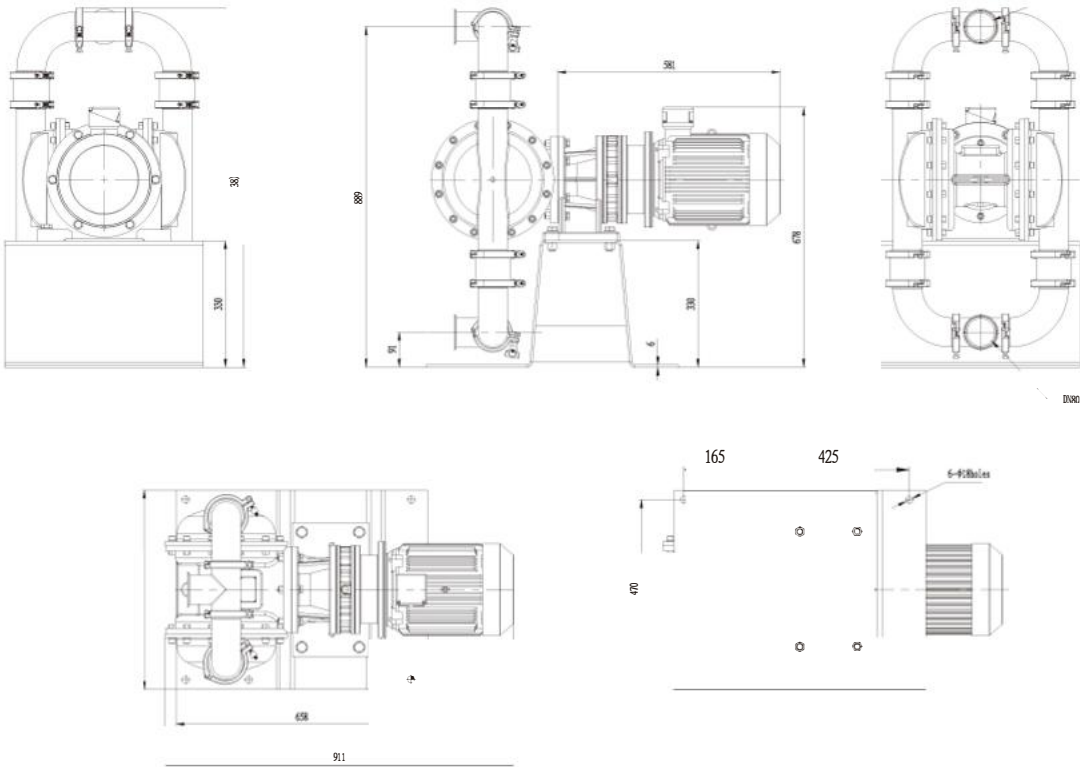
DBW3/s-80

Electric Sanitary Diaphragm Pump

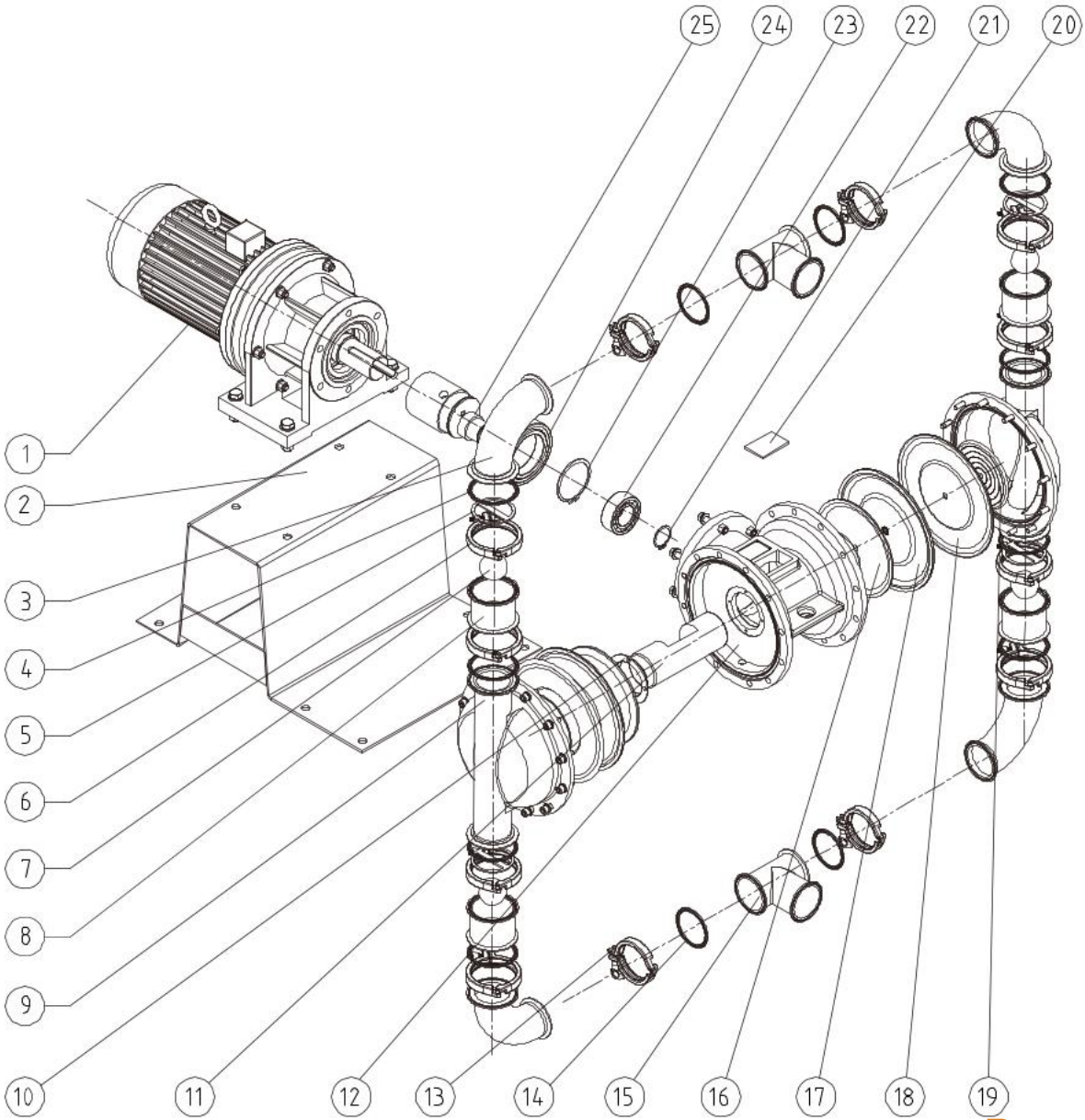
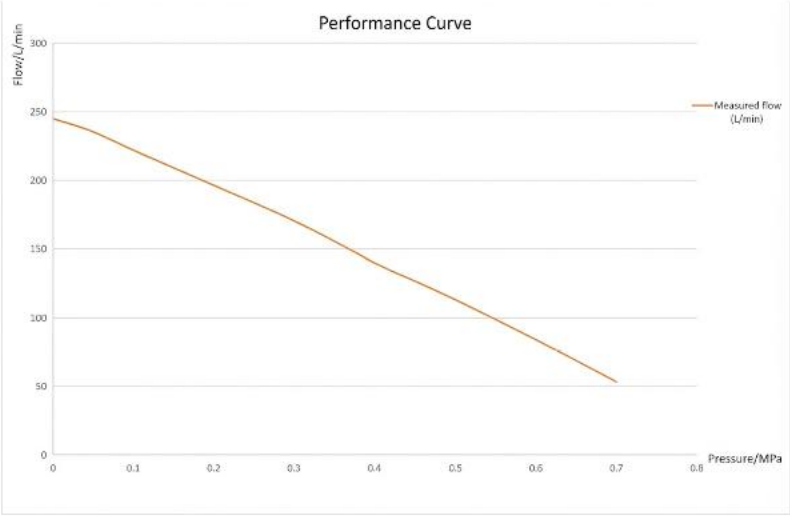
Specifications

Max.Flow	64.7gpm (245lpm)	Max.Permitted Grain	1/4in.(6.4mm)
Max.Working Pressure	0.4Mpa / 0.7Mpa	Every Reciprocating Flow	1.03gallon(3.9L)
Fluid Inlet Size	3in.bsp (f)	Max.Reciprocating Speed	63cpm
Fluid Outlet Size	3in.bsp (f)	Outlet Pressure	0.4Mpa / 0.7Mpa
Max.Suction height(dry suction or wet suction)	16.4ft.(5m)	Motor power	3kw / 4kw

Installation Drawing



Performance Curve



Parts List

No.	Name	No.	Name	No.	Name	No.	Name
01	Reducer	02	Base	03	Tri-clamp	04	Tri-clamp Washer (Large)
05	Ball Seat Baffle Plate	06	Clamp (Large)	07	Valve Ball	08	Ball Seat
09	Stand Column	10	Connecting Rod Axis Copper Sleeve	11	Connecting Rod Axis	12	Center Body
13	Clamp (Small)	14	Tri-clamp Washer (Small)	15	Inlet/Outlet Pipe	16	Inner Splint
17	Polyether Diaphragm	18	Teflon Diaphragm	19	Stainless Steel Outer Splint	20	Inspection Window
21	Small Circlip	22	Small Bearing	23	Large Circlip	24	Large Bearing
25	Eccentric Axis						