



# Air-Powered Double Diaphragm Pumps

After years of research and development, Prona air-operated double-diaphragms are stable in quality and have mature technology, also have been recognized in ASIA, Europe, America and other countries. Suitable for all kinds of industries, such as atomized industries, furniture, aerospace, beverage, food, ceramics, chemical, construction, cosmetics, sewage, painting, plating, medical, package, boat-building, textile, carpet, electronics, wine-making, environmental, etc.

Pneumatic double diaphragm pump  
Application NO: ZL 2014 2 0624159. 6

## Double-diaphragm with fluid agitator

- ★ Details:
- R Series: Aluminium Alloy
- RS Series: Stainless Steel
- PP Series: Plastic
- Normal: Use USS
- Ceramic: Use OSO
- Casting industries: Use ONO Strong
- PH: Use OTO

**RS-1500**  
**RS-2000**  
**RS-2600**  
Equipped with stabilizer

**R-1500/R-2000**  
Equipped with stabilizer

**R-1500-B**  
Equipped with stabilizer and agitator

**R-1500-D2**  
**R-2000-D2**  
Double in / outlet  
Equipped with two stabilizer.

**R-1500-S1**  
**R-2000-S1**  
Double in / outlet  
Equipped with stabilizer.

R-15

RS-15

R-20

RS-20

PP-20



Aluminum-Alloy Pump Series	R(S)-1500/R-1500-B(D2/S1)	R-15/RS-15	R-20/RS-20	PP-20
Fluid inlet	(3/8 inch)	(3/8 inch)	(1/2 inch)	(1/2 inch)
Maximum pressure	7 bar	7 bar	7 bar	7 bar
Fluid inlet	3/8"NPT	3/8"NPT	1/2"NPT	1/2"NPT
Air inlet	1/4"NPT	1/4"NPT	1/4"NPT	1/4"NPT
Maximum operating pressure	Plamar valve	1.6 bar	1.6 bar	1.6 bar
	Low-pressure valve	0.5 bar	0.5 bar	0.5 bar
Maximum flow rate	9.37 GPM(36LPM)	9.37 GPM(36LPM)	12.76 GPM(48LPM)	12.76 GPM(48 LPM)
Maximum cycles per minutes	500 cpm	500 cpm	400 cpm	400 cpm
Maximum volume per cycle	0.08 L	0.08 L	0.15 L	0.15 L
Maximum air consumption	200 L/min	200 L/min	350 L/min	350 L/min
Maximum size solid	Ø2 mm(0.08 in)	Ø2 mm(0.08 in)	Ø3 mm(0.12 in)	Ø3 mm(0.12 in)
Maximum suction lift	6.4m(252in)Wet;3.7m(146in)Dry	6.4m(252in)Wet;3.7m(146in)Dry	6.4m(252in)Wet;3.7m(146in)Dry	6.4m(252in)Wet;3.7m(146in)Dry
Net weight kg(lbs)	-	R-15:3(6.1)   RS-15:6(13.2)	R-20:4.5(9.9)   RS-20:6.5(14.3)	4 (8.1)
Dimensions cm (in)	43x28x57.5 (16.9x11x22.6)	21.5x16x24.3 (8.46x6.3x9.57)	24.8x19.5x28 (9.76x7.68x11)	24.8x19.5x28 (9.76x7.68x11)

### R-26

### RS-26

### R-31

### RS-31

### PP-31



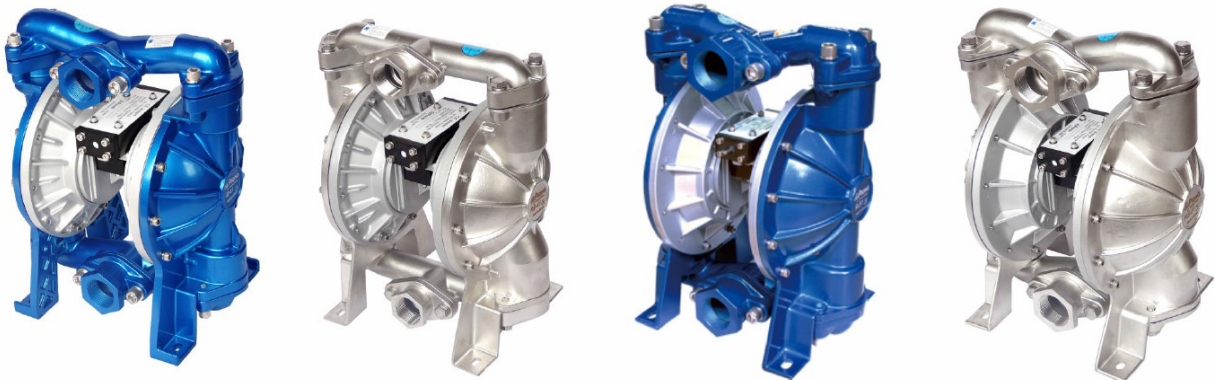
Aluminum-Alloy Pump Series	R-26	RS-26	R-31/PP-31	RS-31
Fluid inlet	(3/4 inch)	(3/4 inch)	(1 inch)	(1 inch)
Maximum pressure	7 bar	7 bar	8 bar	8 bar
Fluid inlet	1/2"NPT	3/4"NPT	1"NPT	1"NPT
Air inlet	1/4"NPT	1/4"NPT	3/8"NPT	3/8"NPT
Maximum operating pressure	Plamar valve	1.6 bar	1.6 bar	1.6 bar
	Low-pressure valve	0.5 bar	0.5 bar	0.7 bar
Maximum flow rate	14.88 GPM(56 LPM)	14.88 GPM(56 LPM)	45.19 GPM(180LPM)	45.19 GPM(180LPM)
Maximum cycles per minutes	400 cpm	400 cpm	400 cpm	400 cpm
Maximum volume per cycle	0.15 L	0.15 L	0.45 L	0.45 L
Maximum air consumption	380 ml/min	380 ml/min	960 ml/min	960 ml/min
Maximum size solid	Ø3 mm(0.12in)	Ø3 mm(0.12in)	Ø6 mm(0.24in)	Ø6 mm(0.24in)
Maximum suction lift	6.4m(252in)Wet;3.7m(146in)Dry	6.4m(252in)Wet;3.7m(146in)Dry	5.48m(215.7in)Wet/Dry	5.48m(215.7in)Wet/Dry
Net weight	5 kg (11.1lbs)	6.5 kg (14.3lbs)	R:9kg(19.8lbs)PP:8kg(17.6)lbs	15 kg(33.1lbs)
Dimensions cm (in)	24.8x19.5x28 (9.76x7.68x11)	24.8x19.5x28 (9.76x7.68x11)	28.5x25x37.5(11.2x9.8x14.8)	28.5x25x37.5(11.2x9.8x14.8)

### R-41

### RS-41

### R-51

### RS-51

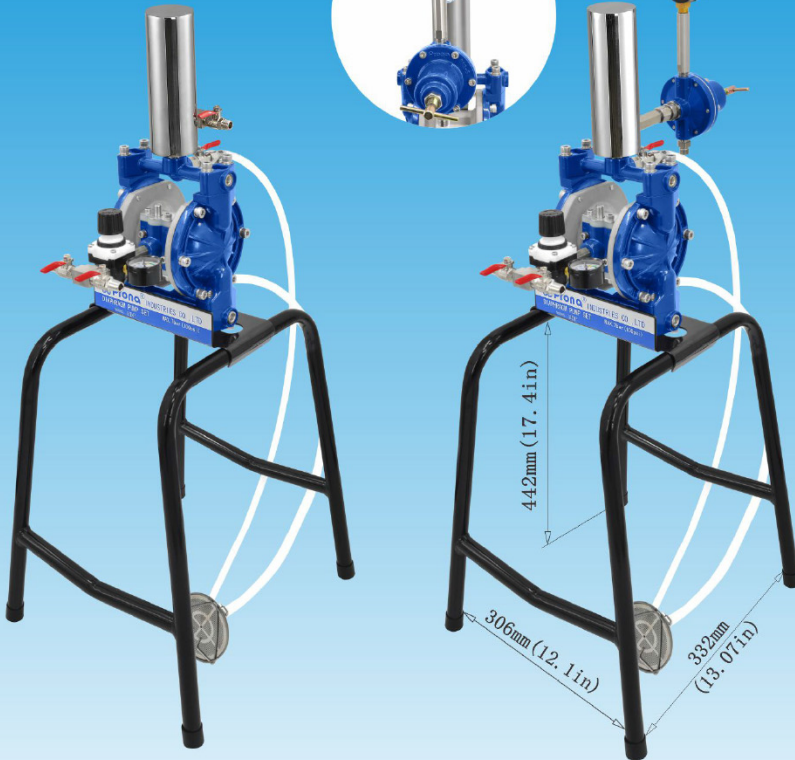


Aluminum-Alloy Pump Series	R-41	RS-41	R-51	RS-51
Fluid inlet	(1-1/2 inch)	(1-1/2 inch)	(2 inch)	(2 inch)
Maximum pressure	8 bar	8 bar	8 bar	8 bar
Fluid inlet	1-1/2 "NPT	1-1/2 "NPT	2"NPT	2"NPT
Air inlet	1/2 "NPT	1/2 "NPT	1/2"NPT	1/2"NPT
Maximum operating pressure	Low-pressure valve	1.3 bar	1.3 bar	1.3 bar
Maximum flow rate	79.75 GPM(300LPM)	79.75 GPM(300LPM)	154.84GPM(580LPM)	154.84GPM(580LPM)
Maximum air consumption	1700 ml/min	1700 ml/min	2700 ml/min	2700 ml/min
Maximum size solid	Ø8 mm(0.31in)	Ø8 mm(0.31in)	Ø10mm(0.39in)	Ø10mm(0.39in)
Maximum suction lift	5.48m(215.7in)Wet/Dry	5.48m(215.7in)Wet/Dry	5.48m(215.7in)Wet/Dry	5.48m(215.7in)Wet/Dry
Net weight	R: 16 kg(35.3 lbs)	28 kg(61.7 lbs)	29.5 kg(65 lbs)	54 kg(119 lbs)
Dimensions cm (in)	39x28x48.5(15.34x11x19.1)	39x28x48.5(15.34x11x19.1)	44x35x56(17.32x13.78x22.05)	44x35x56(17.32x13.78x22.05)



## Double diaphragm

Front view of fluid regulator



BDP-12

BDP-12-S

## Double diaphragm+ fluid agitator



BDP-12-B

### Functions and Characteristics

- ◆ This product uses double-layer diaphragm, which is different from the products on market. Outer layer is made of special teflon, provide better solvent resistant and can be operated on as low as 15 psi.
- ◆ The maximum fluid discharge pressure is 6 bars and can not be operated without solvent. It's more durable and has longer lifetime.
- ◆ BDP series come with fluid stabiliser which can reduce sacrificing flow, suitable for transferring and mixing fluid.
- ◆ **Warning: Do not exceed the maximum pressure (0.6Mpa) when operating the pump. Prona Tools Inc will not hold any responsibility in case of accidents occur due to improper use of product.**

Type	Name	Air inlet	Fluid inlet	Usage temperature parameter	Usage air pressure Parameter	Maximum usage pressure	Fluid output per fluid cycle	Maximum cycle	Maximum flow	Demanded power of air pressure machine	Weight	Carton box size
				°C	Mpa (bar)	Mpa (bar)	ml/cycle	cycle/min	l/min	kw	kg(lbs)	LxWxH mm(in)
BDP-12	Pressure storage attached										7.3 (16.09)	385X355X485 (15.16X14X19)
BDP-12-S	Fluid regulator and pressure storage attached	G1/4	G1/4	5-40	0.15-0.6 (1.5-6.0)	0.60 (6.0)	80	150	12	0.4-0.75	7.8 (17.20)	
BDP-12-B	Agitator and pressure storage attached										11.7 (25.8)	