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BSK Pneumatic
Diaphragm
Pumps

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BSK, a maker of legendary quality, not legendary stories!

As a company absorbed in fluid transportation, BSK invented the world's first dual ceramic air valve system! Its highly valued by customers for its unique patented technology and nanny service, high quality, wide applicable area, and excellent stability.

In 2011 BSK set up its factory in Guangzhou, China, after introducing the mature and advanced technology and service concept into China. It now comprises more than 100 professional agents with service teams in more than 30 cities in China.

BSK's nanny service satisfies customers' diversified and individual needs to the hilt, reduces their maintenance cost, and improves their efficiency.

BSK manages the marketing of its technical products to customers. Sharing the advanced technology value, the validated technology outcomes, and services strengthen our partnership with our customers.

BSK, your trustworthy service provider of cutting-edge fluid technology!



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Machinery

Oil
Cutting fluid
Quenching oil
Electroplating chemicals
Liquid effluent

Food & Pharmaceuticals

Base minerals
Additives
Condiments

Mining

Wastewater
Water seepage
Slurry

Automotive

Oil
Solvent
Paint
Waterproofing
Waste effluent

Chemical

Acid
Caustic
Solvent
Paint
Shear sensitive material

Aluminium Alloy

BP15AL
BA25AL
BA40AL
BA50AL
BA80AL



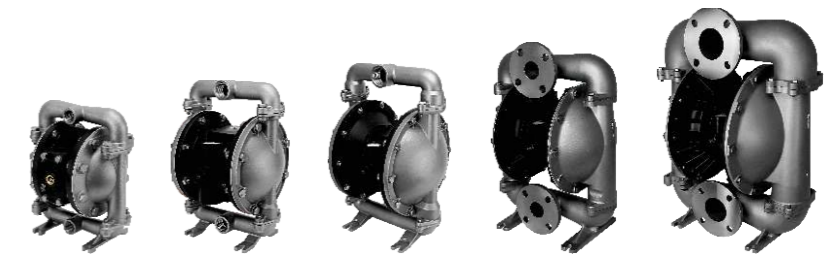
Poly Propylene & PVDF

BP06PP
BP06PV
BP15PV
BA15PP
BA25PP
BA25PV
BA40PP
BA50PP



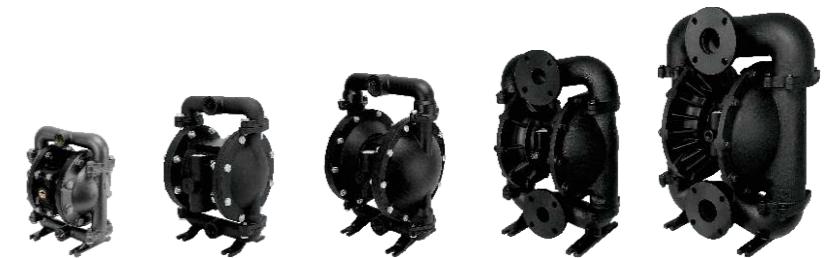
Stainless Steel

BP15SS
BA25SS
BA40SS
BA50SS
BA80SS



Cast Iron or Carbon Steel

BP15CS
BA25CS
BA40CI
BA40CS
BA50CI
BA80CI



Motor

Surface coating
Corrosion-resistant

Module design
Universal modular
component design
Minimum spare part holding

Exhaust chamber with silencer
Lower noise levels
Mitigating the possibility of freezing

Chip valve, ceramic material
Low friction parts
Reliable stall resistant design

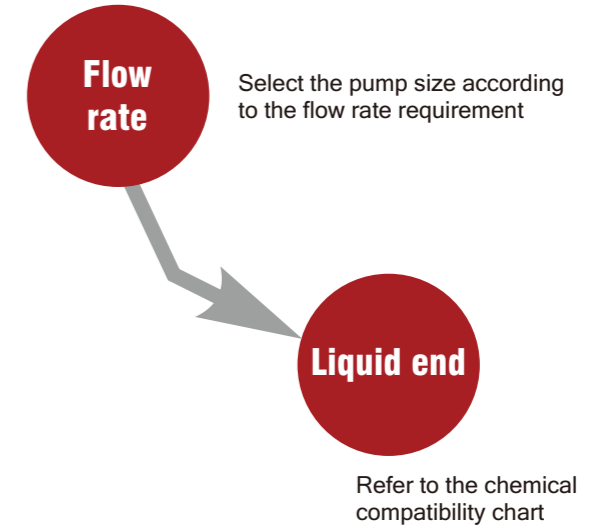
Unique air chamber design
Lower air consumption
and reduced operating cost

Grooved seal design
Improved sealing ability

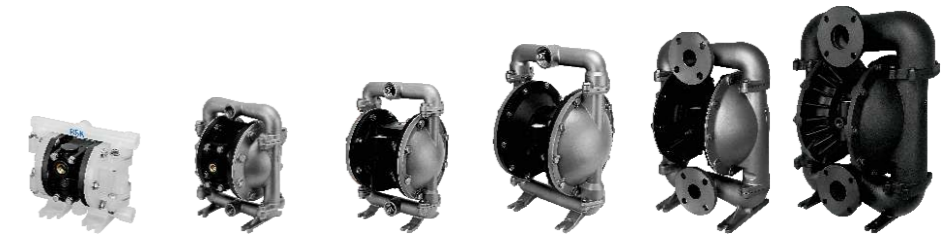
Main Pneumatic Valve



Patented Design
Minimum components
Maintenance friendly
Improved reliability
Only 4 dynamic O-rings



Performance Chart



Pump size	BP06	BP15	BA25	BA40	BA50	BA80	
Process connection size	1/4"	1/2"	1"	1 1/2"	2"	3"	
Allowable air pressure (bar)	0.9-6.0	1.5-6.9	1.0-8.3	1.0-8.3	1.0-8.3	1.0-8.3	
Maximum flow rate (ℓ/min)	26.1	45.3	192	378.5	667	903	
Displacement volume per cycle (ℓ)	0.06	0.14	0.87	2.83	3.78	7.67	
Maximum delivery head (m)	60	70	60	80	80	80	
Maximum dry suction (m)	4.2	4.1	6.7	6.7	6.2	5.3	
Maximum particle size (mm)	1	2.5	3	6	7	9	
Weight (Kg)	Polypropylene	1.3	2.4	9.5	19	26	X
	Stainless steel	X	5.5	14.5	30	53	95
	Carbon steel	X	5.5	14.5	30	48.5	91
	Aluminium alloy	X	4.8	9.5	18	24.5	43

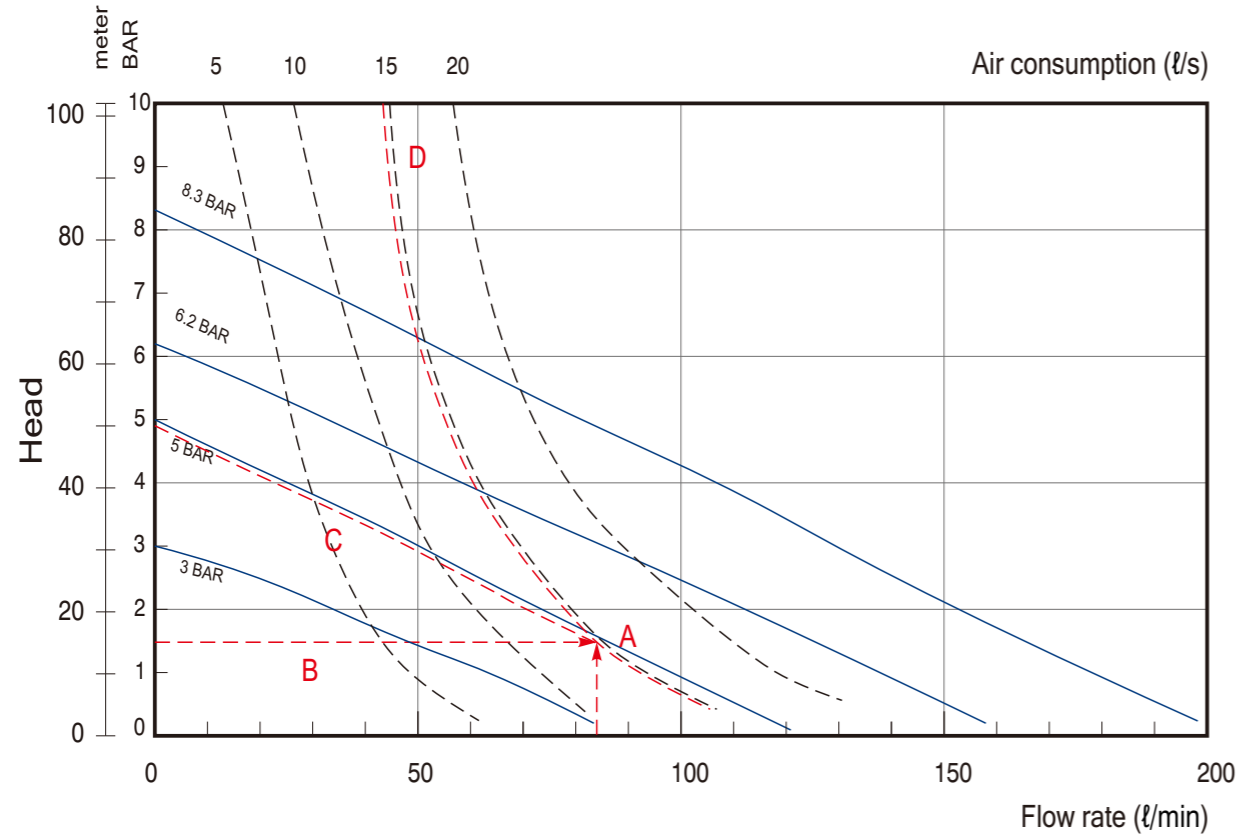
Model Identification

B X 00 XX - XXXX - X(-XX)

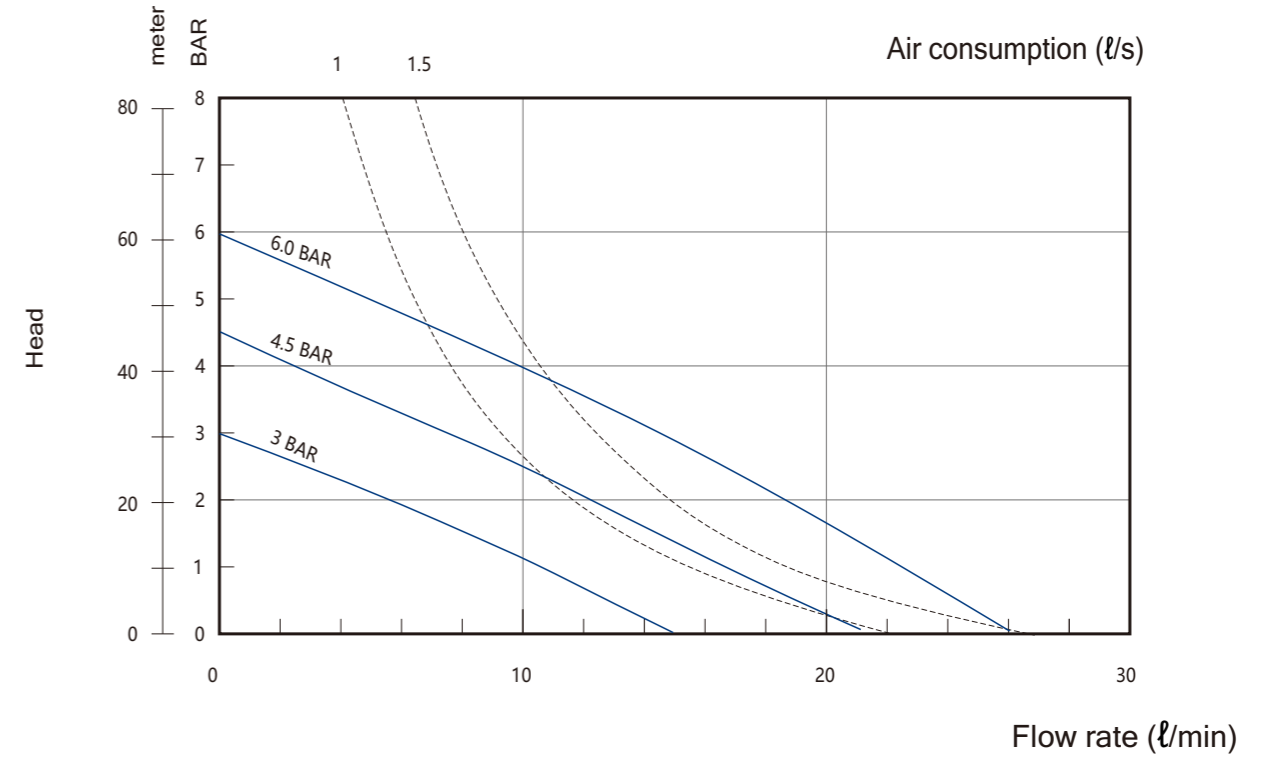
Center body	Port size	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port	Code for special order
P - Polypropylene A - Aluminum alloy	06 - 1/4" 15 - 1/2" 25 - 1" 40 - 1 1/2" 50 - 2" 80 - 3"	PP - Polypropylene SS - Stainless steel CS - Carbon steel AL - Aluminum CI - Cast Iron PV - PVDF	P - Polypropylene S - Stainless steel C - Carbon steel 0 - Aluminum 7 - Nylon 9 - Santoprene® D - POM V - PTFE	9 - Santoprene® H - Hytrel® T - PTFE S - Stainless steel 7 - Nylon 8 - Santoprene® w/steel core B - NBR	9 - Santoprene® B - NBR H - Hytrel® T - PTFE/Santoprene® V - FKM®	0 - Non 1 - NBR 3 - PTFE(FULL) 4 - PTFE(COVER) 5 - FKM	A - BSP (thread) B - NPT C - Flange	

Performance Curve

A	B	C	D
Select the fluid rate (for example: 87 l/m)	Select the head of delivery (for example: 14 m)	Check the inlet air pressure (for example: 5 bar)	To get the air consumption rate (for example: 14 l/s)

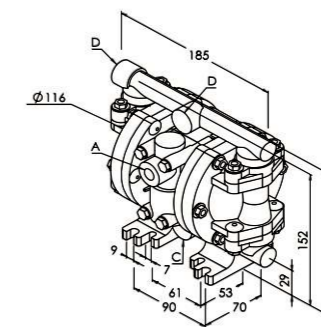


PERFORMANCE CURVE



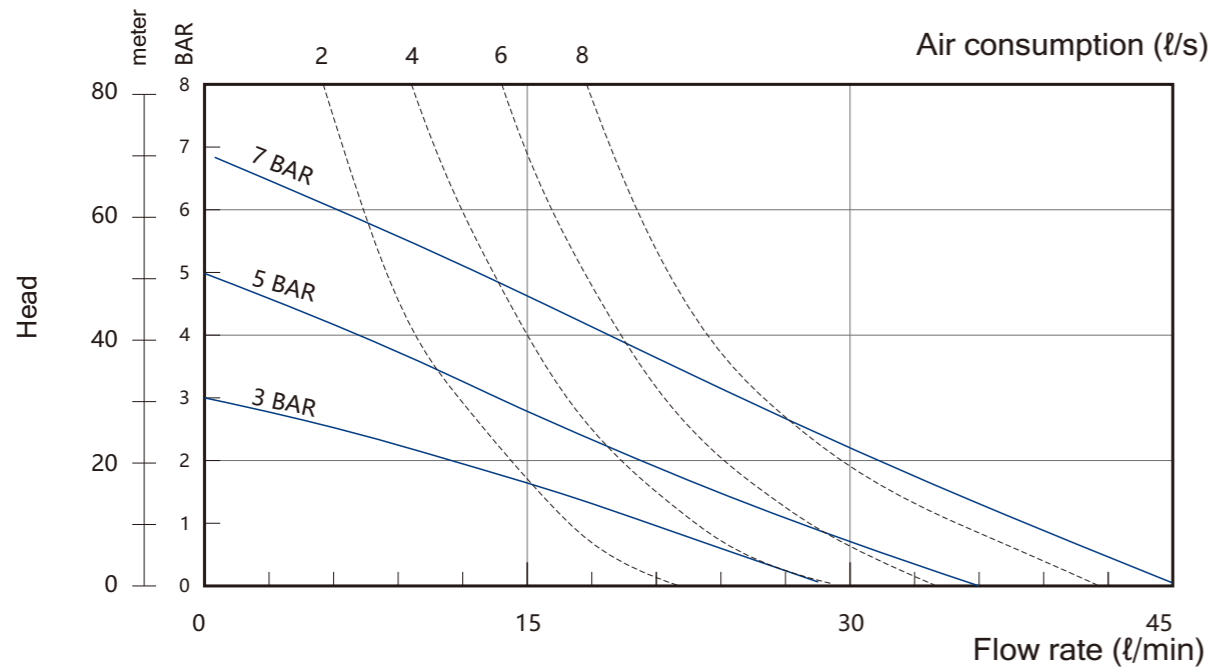
Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Polypropylene	PP - Polypropylene PV - PVDF	P - polypropylene T - PTFE	9 - Santoprene® T - PTFE S - Stainless steel	9 - Santoprene® T - PTFE	1-NBR 4-PTFE(COVE) 5 - FKM	B-NPT

Port size	A	B	C	D
	Air Inlet	Exhaust	Inlet	Outlet
	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT

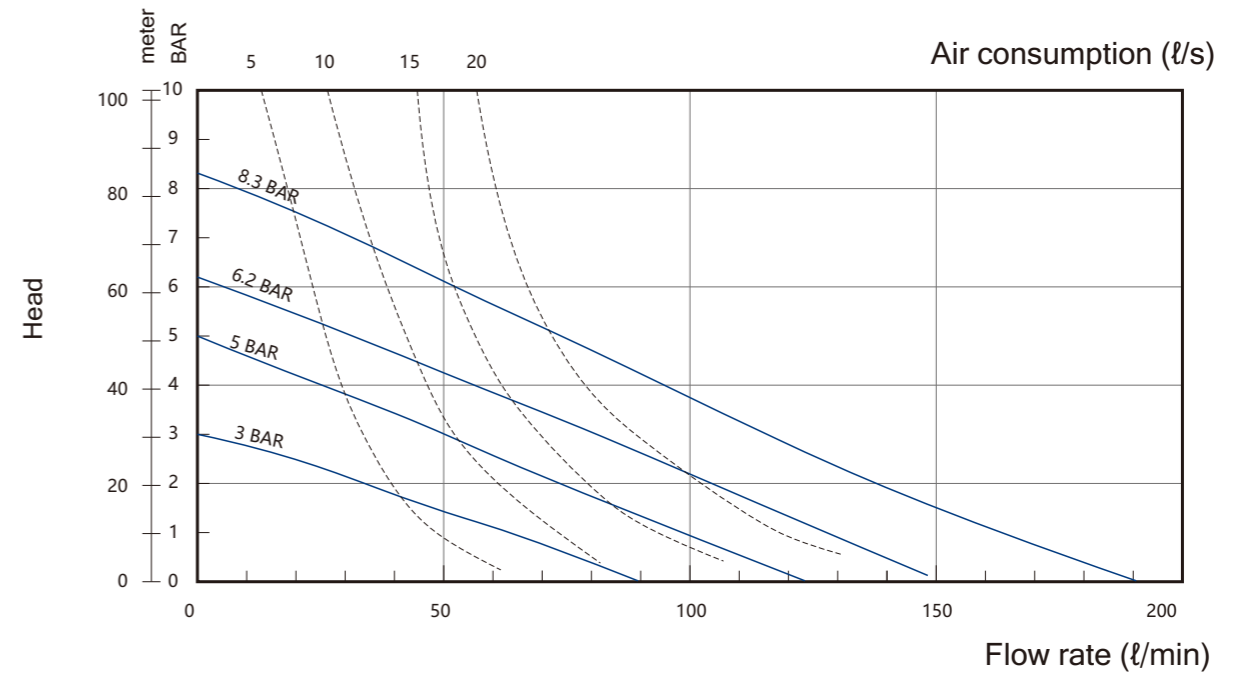


Polypropylene

PERFORMANCE CURVE



PERFORMANCE CURVE

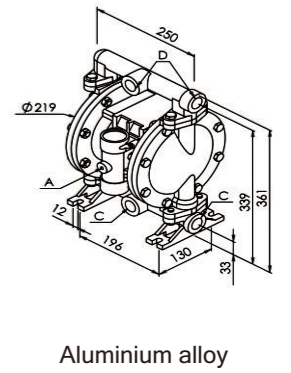
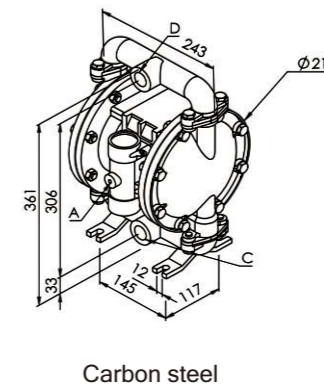
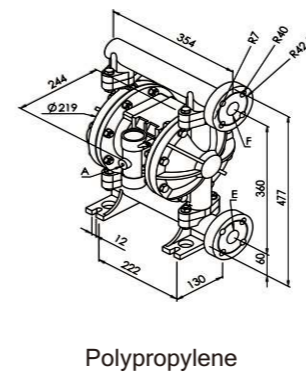
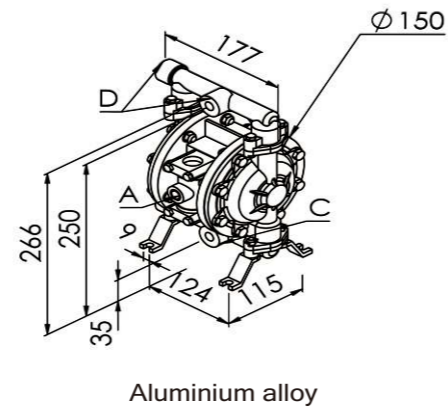
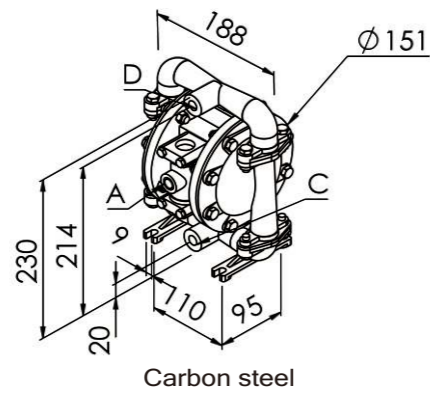
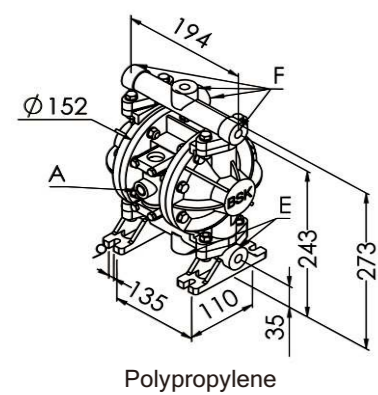


Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Polypropylene	PP - Polypropylene SS - Stainless steel CS - Carbon steel AL - Aluminum	P - Polypropylene S - Stainless steel AL - Aluminum	9 - Santoprene® T - PTFE S - Stainless steel B - NBR	9 - Santoprene® T - PTFE/Santoprene® B - NBR®	1 - NBR 4 - PTFE(COVER) 5 - FKM	A - BSP (thread) B - NPT

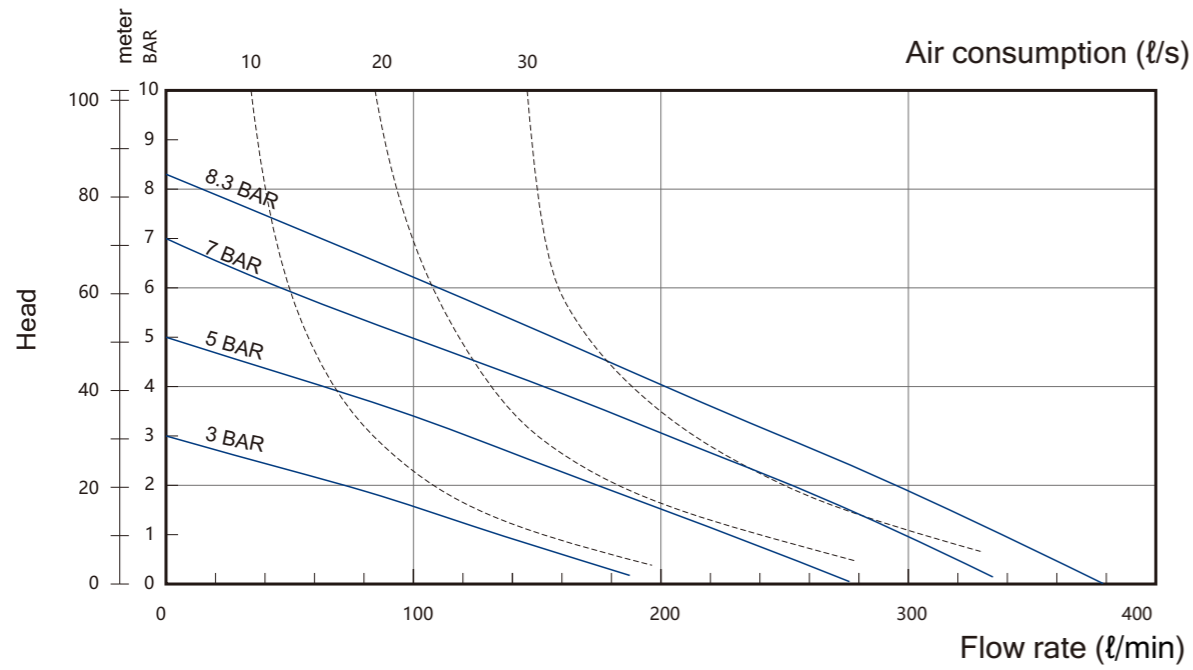
Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Aluminum alloy	PP - Polypropylene SS - Stainless steel CS - Carbon steel AL - Aluminum PV - PVDF	P - Polypropylene S - Stainless steel C - Carbon steel O - Aluminum 9 - Santoprene® D - POM T - PTFE	9 - Santoprene® H - Hytrel® T - PTFE S - Stainless steel 7 - Nylon 8 - Santoprene® w/steel core B - NBR	9 - Santoprene® B - NBR H - Hytrel® T - PTFE/Santoprene® B - NBR®	1 - NBR 3 - PTFE(FULL) 4 - PTFE(COVER) 5 - FKM	A-BSP (thread) C-Flange (ANSI/DIN)

Port size	A	B	C	D	E	F
	Air Inlet	Exhaust	Inlet	Outlet	Inlet	Outlet
	1/4" NPT	3/8" NPT	1/2-14 BSP Rp	1/2-14 BSP Rp	1/2" NPT	1/2" NPT

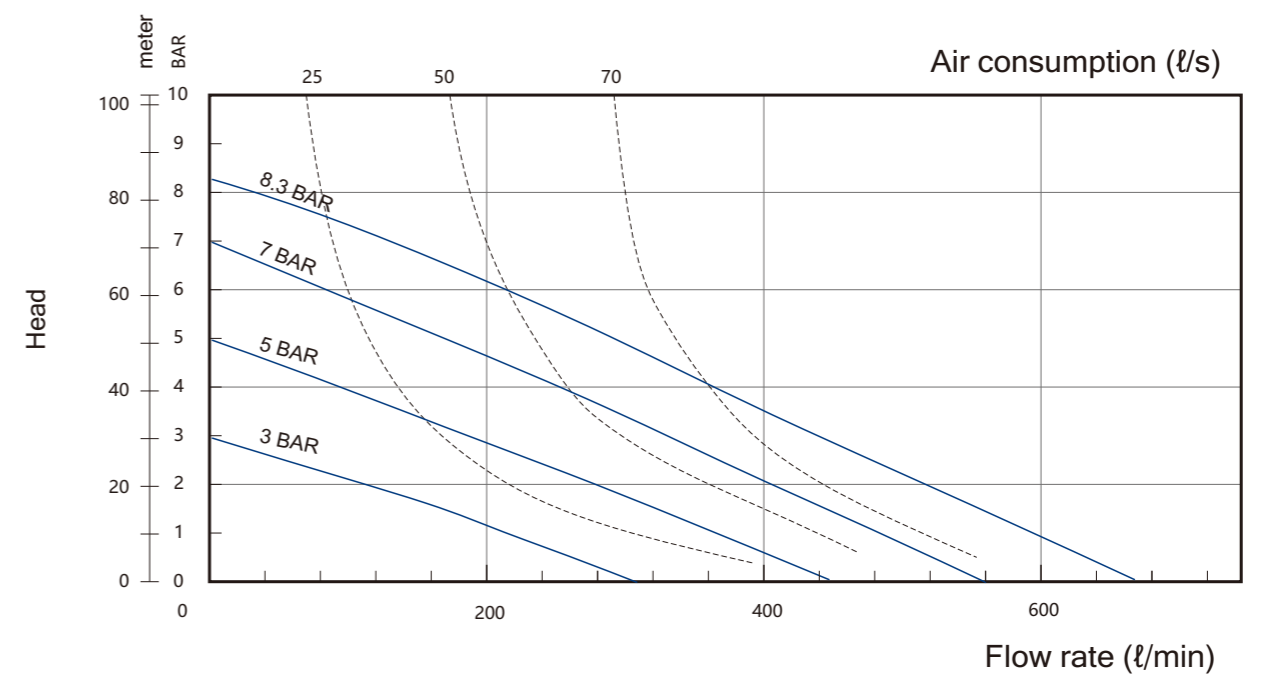
Port size	A	B	C	D	E	F
	Air Inlet	Exhaust	Inlet	Outlet	Inlet	Outlet
	1/4" NPT	3/8" NPT	1" BSP	1" BSP	1" FLANGE	1" FLANGE



PERFORMANCE CURVE

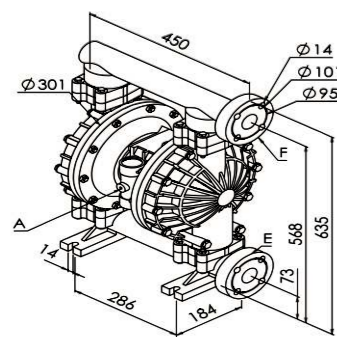


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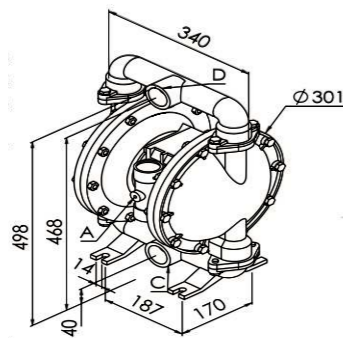


Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Aluminum alloy	PP - Polypropylene SS - Stainless steel CS - Carbon steel AL - Aluminum CI - Cast iron	P - Polypropylene S - Stainless steel C - Carbon steel 0 - Aluminum 9 - Santoprene®	9 - Santoprene® H - Hytrel® T - PTFE 8 - Santoprene® w/steel core B - NBR	9 - Santoprene® H - Hytrel® T - PTFE/Santoprene® B - NBR®	0 - Non 1 - NBR 3 - PTFE(FULL) 4 - PTFE(COVER) 5 - FKM	A - BSP (thread) C - Flange (ANSI/DIN)
Port size	A	B	C	D	E	F
	Air Inlet	Exhaust	Inlet	Outlet	Inlet	Outlet
	1/2" NPT	3/4" NPT	1 1/2" BSP	1 1/2" BSP	1 1/2" FLANGE	1 1/2" FLANGE

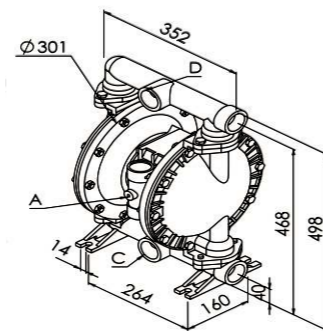
Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Aluminum alloy	PP - Polypropylene SS - Stainless steel AL - Aluminum CI - Cast iron	P - Polypropylene S - Stainless steel C - Carbon steel 0 - Aluminum 9 - Santoprene® D - POM	9 - Santoprene® H - Hytrel® T - PTFE 8 - Santoprene® w/steel core B - NBR	9 - Santoprene® H - Hytrel® T - PTFE/Santoprene® B - NBR®	0 - Non 1 - NBR 3 - PTFE(FULL) 4 - PTFE(COVER) 5 - FKM	A - BSP (thread) C - Flange (ANSI/DIN)
Port size	A	B	C	D	E	F
	Air Inlet	Exhaust	Inlet	Outlet	Inlet	Outlet
	3/4" NPT	3/4" NPT	2" BSP	2" BSP	2" FLANGE	2" FLANGE



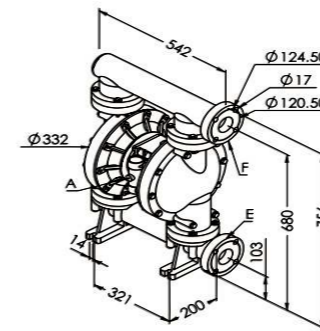
Polypropylene



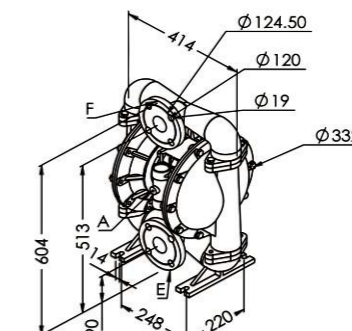
Stainless steel



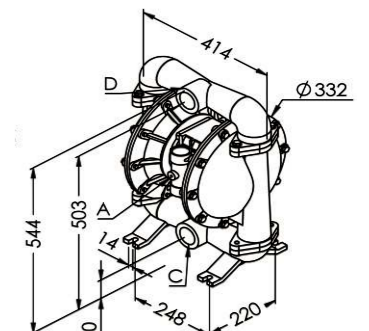
Aluminium alloy



Polypropylene

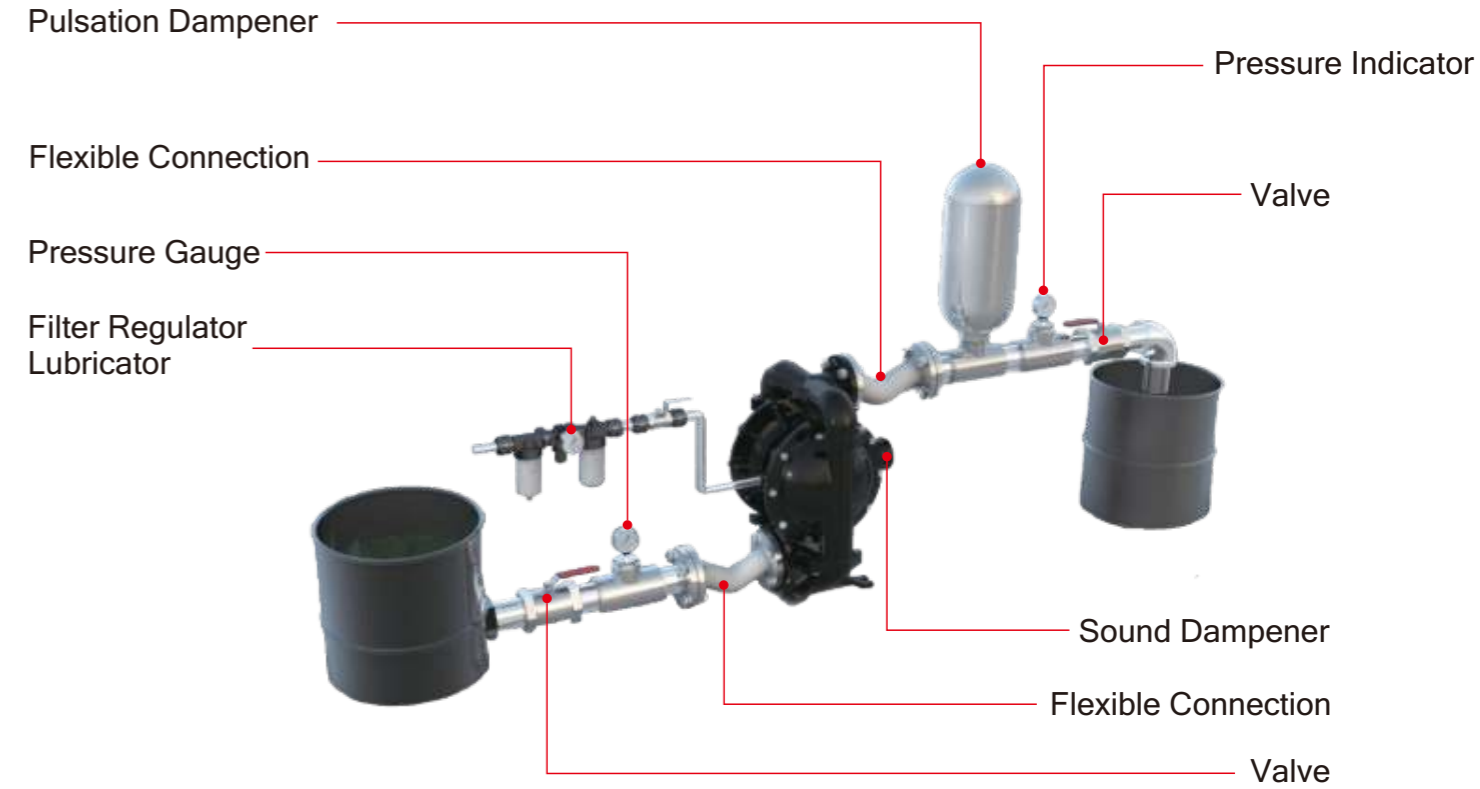
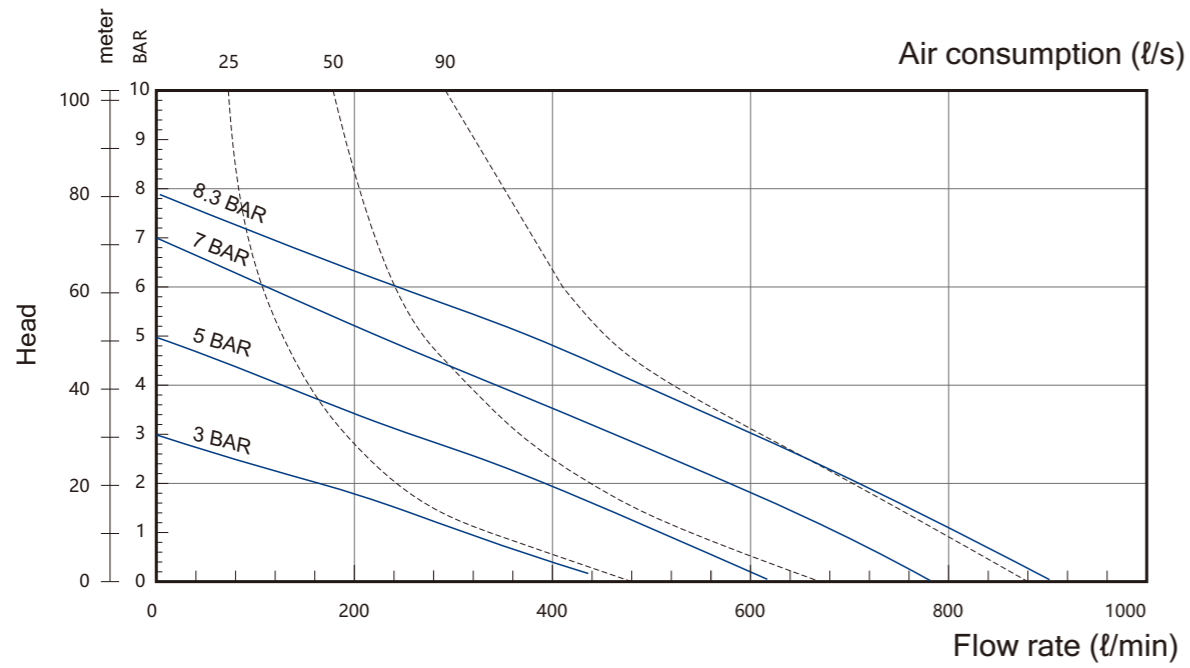


Stainless steel

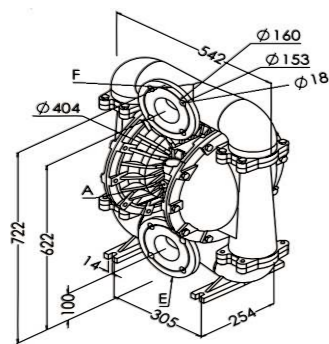


Aluminium alloy

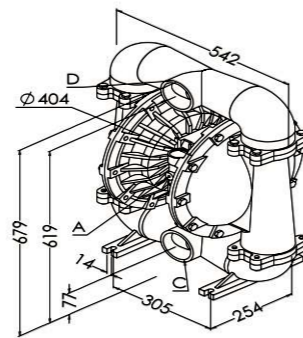
PERFORMANCE CURVE



Center body	Housing material	Seat material	Ball material	Diaphragm material	O-ring material	Port
Aluminum alloy	AL - Aluminum SS - Stainless steel CI - Cast Iron	S - Stainless steel C - Carbon steel O - Aluminum 9 - Santoprene® D - POM	9 - Santoprene® H - Hytrel® T - PTFE B - NBR	9 - Santoprene® H - Hytrel® T - PTFE/Santoprene® B - NBR®	0 - Non 1 - NBR 3 - PTFE(FULL) 5 - FKM	A - BSP (thread) C - Flange (ANSI/DIN)
Port size	A	B	C	D	E	F
	Air Inlet 3/4" NPT	Exhaust 3/4" NPT	Inlet 3" BSP	Outlet 3" BSP	Inlet 3" FLANGE	Outlet 3" FLANGE



Stainless steel



Aluminium alloy

