BSK Fluid Technology LLC.

BSK Pneumatic Diaphragm Pump

HOW TO SELECT THE CORRECT MODEL

FLOW RATE

Firstly, determine the initial pump model based on required flow rate

LIQUID END MATERIAL

Secondly, select the appropriate liquid end components according to the material characteristics and correct material compatibility

SUMMARIZED PUMP DATA

MODEL SIZE	BP06	BP15	BA/BP25	BA/CP 40	BA/CP 50	BA/CP 80
Working 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
Port size	1/4"	1/2"	1"	1.5"	2"	3"
Maximum flow rate (L/min)	26.1	45.3	192	378.5	667	903
Displacement per cycle (L)	0.06	0.14	0.87	2.83	3.78	7.67
Maximum 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	1	2.5	3	6	7	9

1/4" MODEL

X X 06 XX - XXXX - X

CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BP - Polypropylene	PP - Polypropylene PV - PVDF	P - Polypropylene T - PTFE	T - PTFE 9 - Santoprene® P - UPE S - Stainless steel	9 - Santoprene® T - PTFE H - Hytrel	1 - NBR 3 - EPDM 4 - PTFE (COVER) 5 - FKM	B - NPT

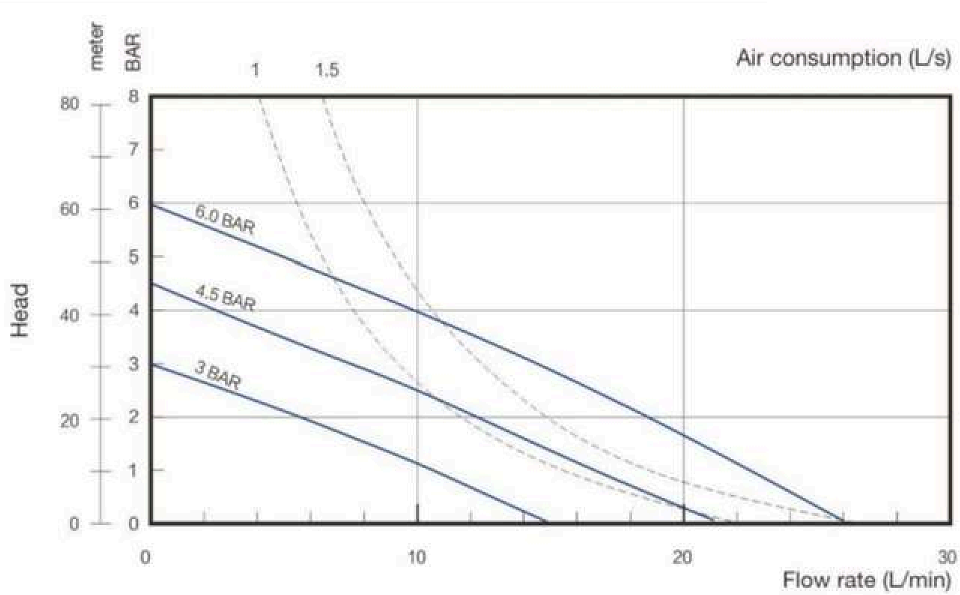
- Small and compact design for ease of installation.
- Multiple port configurations.

Polypropylene / PVDF Pump

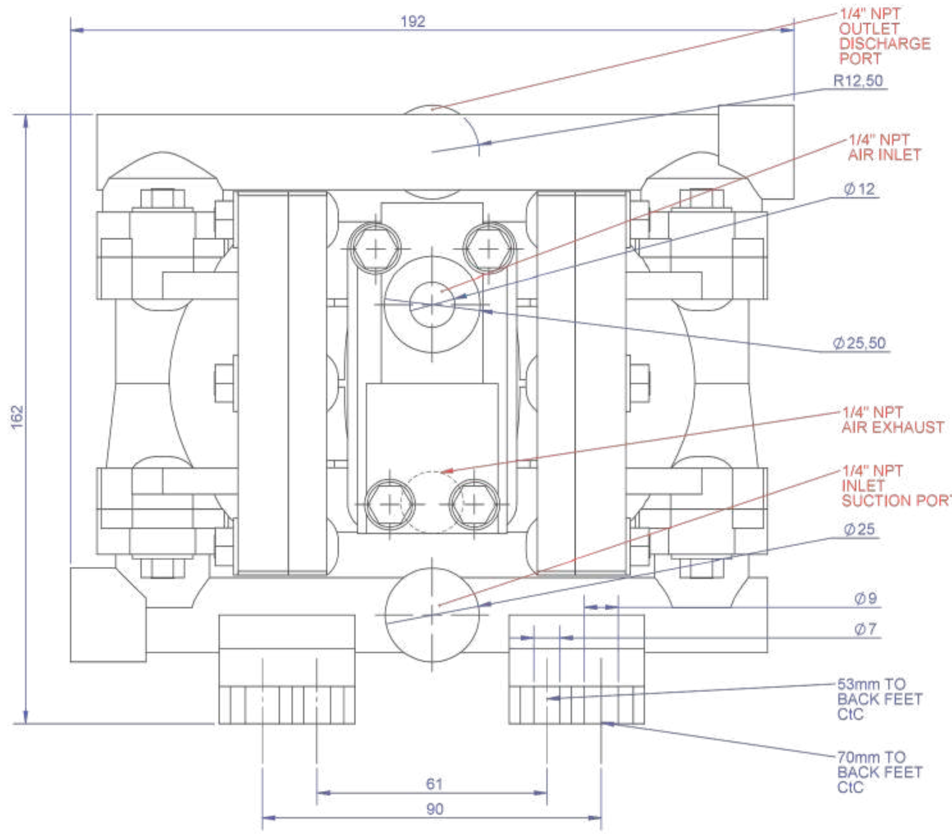
PUMP DATA

Working air pressure		0.09-0.60 Mpa
Maximum outlet pressure		0.60 Mpa
Maximum flow rate		26.1 lpm
Maximum particle size		1 mm
Maximum dry suction		4.2 m
Noise level @70psi		68 dB
Weight	Polypropylene	1.3 kg
	PVDF	1.8 kg

PERFORMANCE CURVE



1/4" MODEL



Polypropylene / PVDF Pump

**NOTE: Drawings are not to scale*

1/2" MODEL

X X 15 XX - XXXX - X

CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BP - Polypropylene	AL - Aluminum CS - Carbon Steel PP - Polypropylene PV - PVDF SS - Stainless steel	O - Aluminum P - Polypropylene SS - Stainless steel T - PTFE	9 - Santoprene® B - NBR P - UPE S - Stainless steel T - PTFE H - Hytrel	B - NBR 9 - Santoprene® H - Hytrel T - PTFE/Santoprene®	0 - Non 1 - NBR 2 - EPDM 3 - PTFE (FULL) 4 - PTFE (COVER) 5 - EPDM	A - BSP (Thread) B - NPT

- Small and compact design for ease of installation.
- Multiple port configurations.

PUMP DATA

Working air pressure		0.15 - 0.69 Mpa
Maximum outlet pressure		0.69 Mpa
Maximum flow rate		45.3 lpm
Maximum particle size		2.5 mm
Maximum dry suction		4.1 m
Noise level @70psi		75 dB
Weight	Stainless Steel	5.5 kg
	Cast Iron	5.5 kg
	Aluminum	2.4 kg
	Polypropylene	2.4 kg
	PVDF	3.5 kg

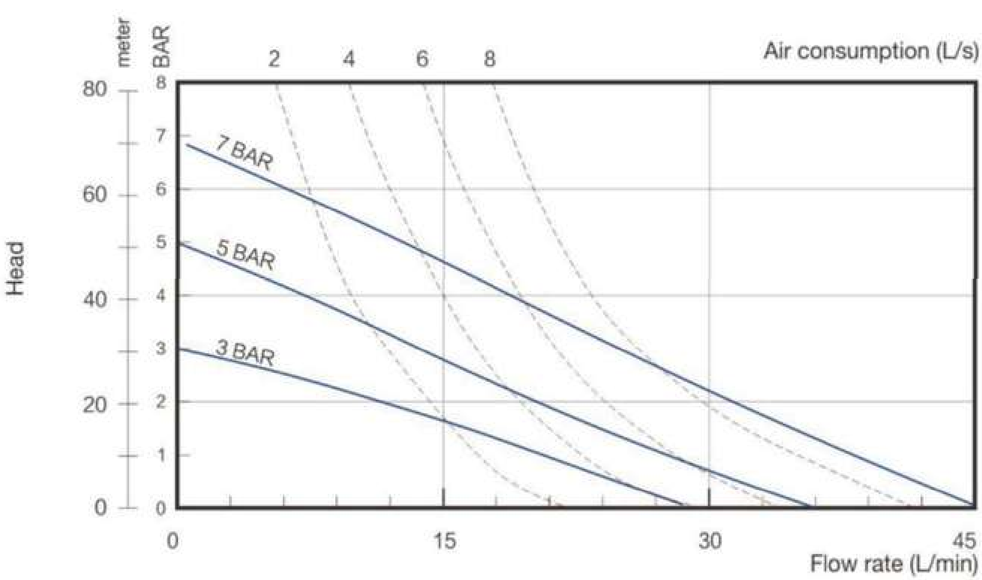
Polypropylene / PVDF Pump

Stainless Steel Pump

Cast Steel pump

Aluminum Alloy Pump

PERFORMANCE CURVE



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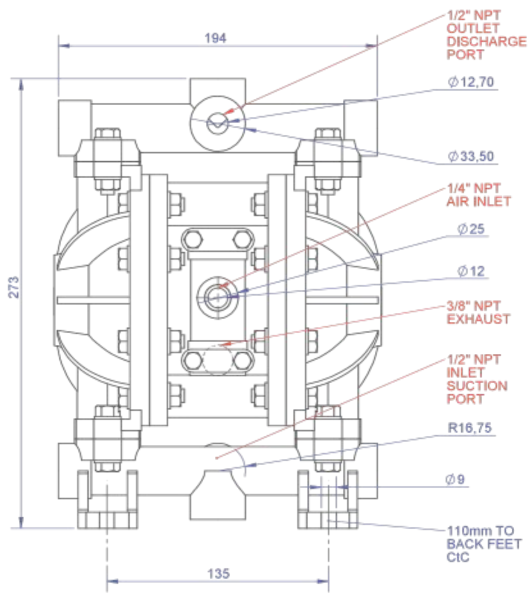
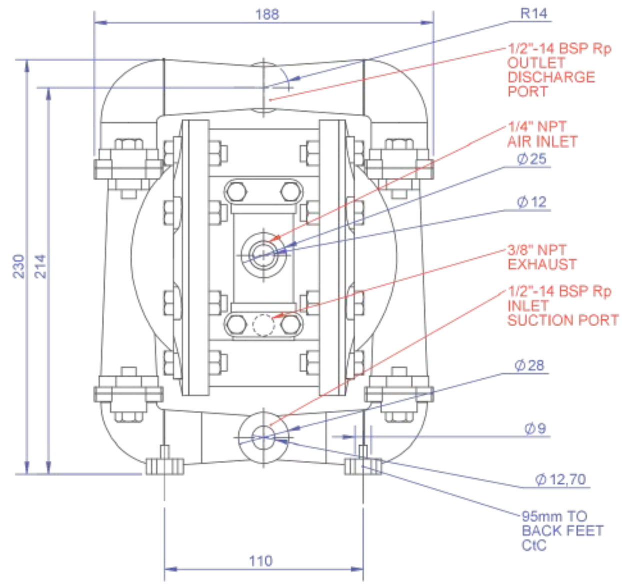
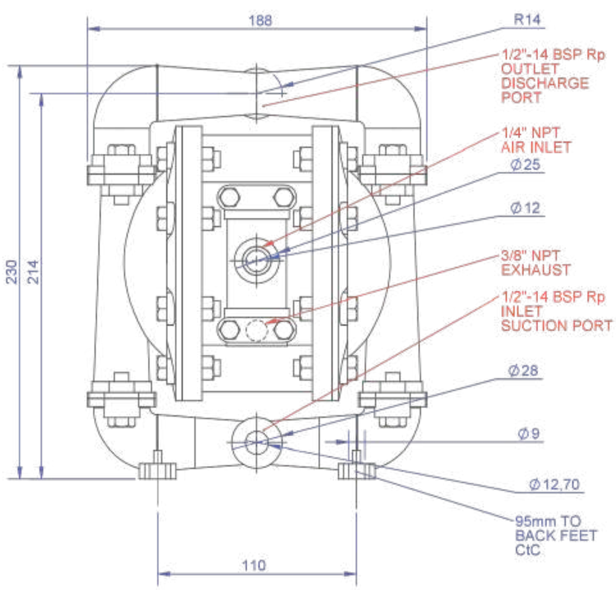
1/2" MODEL



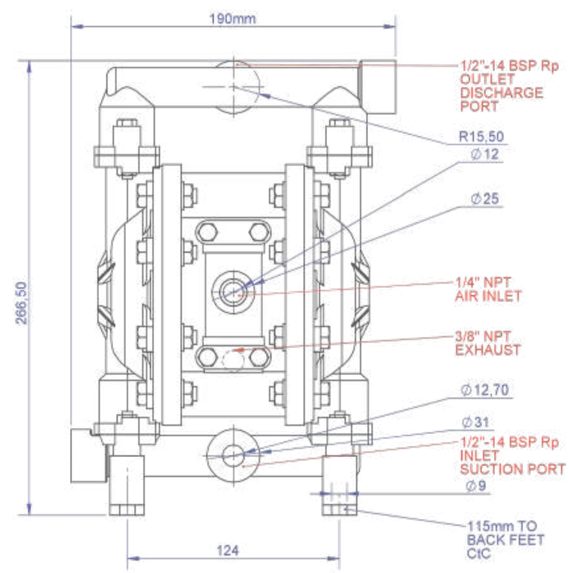
Polypropylene / PVDF Pump



Stainless Steel Pump



Cast Iron Pump



Aluminum Alloy Pump

**NOTE: Drawings are not to scale*

1" MODEL

X X 25 XX - XXXX - X

CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BA - Aluminum BP - Polypropylene	AL - Aluminum CI - Cast Iron PP - Polypropylene PV - PVDF SS - Stainless steel	9 - Santoprene® C - Carbon steel 7 - Nylon O - Aluminum P - UPE SS - Stainless steel T - PTFE	7 - Nylon 9 - Santoprene® B - NBR H - Hytrel® P - UPE S - Stainless steel T - PTFE	9 - Santoprene® B - NBR H - Hytrel® T - PTFE/Santoprene® V - FKM	1 - NBR 2 - EPDM 3 - PTFE (FULL) 4 - PTFE (COVER) 5 - FKM	A - BSP (Thread) C - Flange

- Flange size according to ANSI and DIN standards.

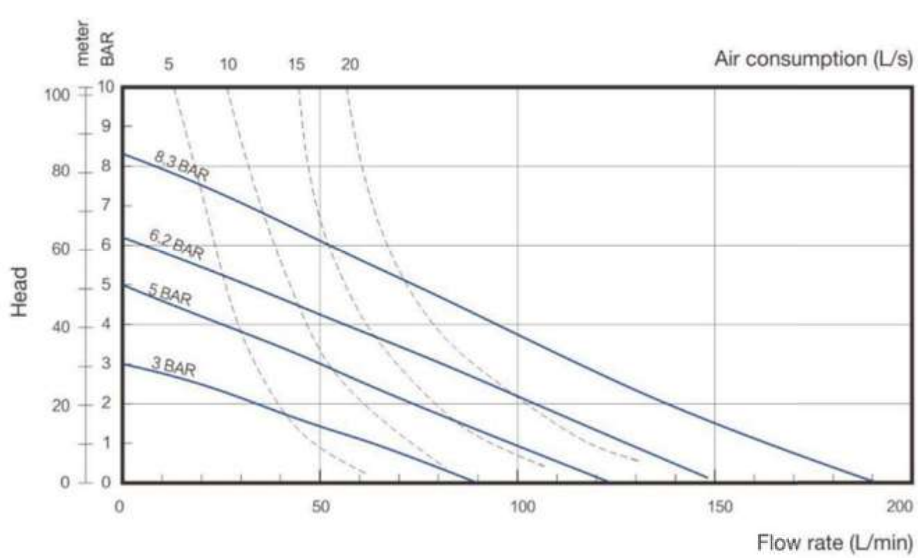
Polypropylene / PVDF Pump

PUMP DATA

Working air pressure		0.10-0.83 Mpa
Maximum outlet pressure		0.83 Mpa
Maximum flow rate		192 lpm
Maximum particle size		3 mm
Maximum dry suction		6.7 m
Noise level @70psi		75 dB
Weight	Stainless Steel	14.5 kg
	Cast Iron	14.5 kg
	Aluminum	9.5 kg
	Polypropylene	9.5 kg
	PVDF	13 kg

Stainless Steel Pump

PERFORMANCE CURVE

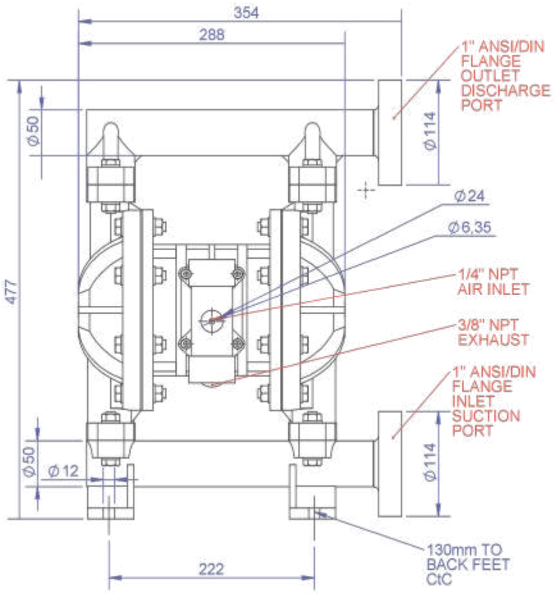


Cast Iron Pump

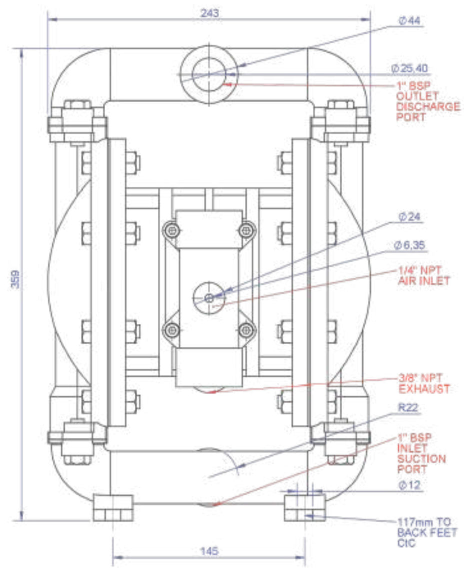
Aluminum Alloy pump

BSK Fluid Technology LLC.

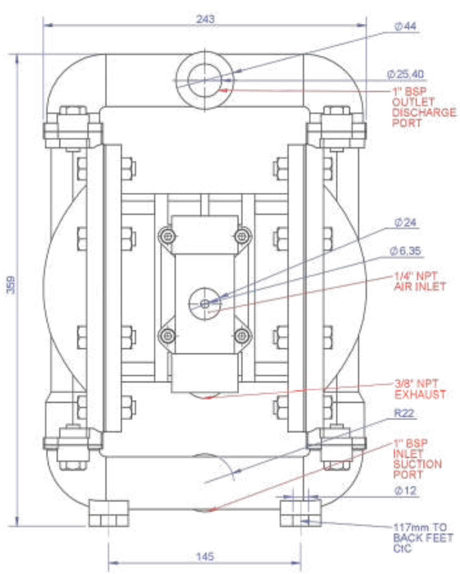
1" MODEL



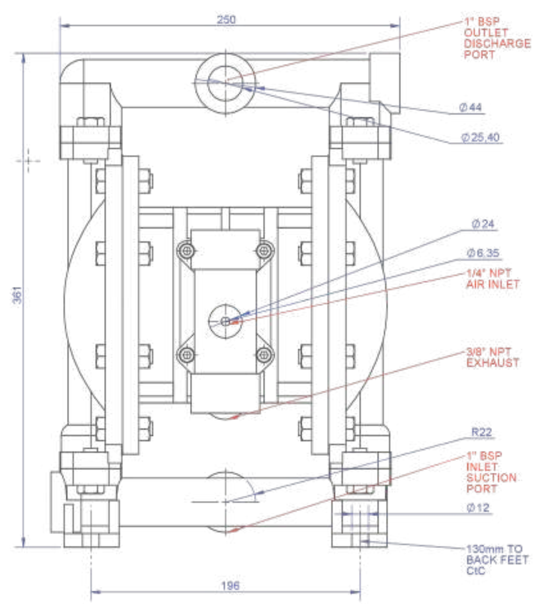
Polypropylene / PVDF Pump



Stainless Steel Pump



Cast Iron Pump



Aluminum Alloy Pump

NOTE: Drawings are not to scale

1 1/2" MODEL

X X 40 XX - XXXX - X

CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BA - Aluminum CP - Polypropylene	AL - Aluminum CI - Cast Iron PP - Polypropylene PV - PVDF SS - Stainless steel	O - Aluminum 9 - Santoprene® C - Carbon steel P - Polypropylene S - Stainless steel T - PTFE	8 - Santoprene® w/steel core 9 - Santoprene® B - NBR H - Hytrel® T - PTFE P - UPE	9 - Santoprene® B - NBR H - Hytrel® T - PTFE/Santoprene®	0 - Non 1 - NBR 2 - EPDM 3 - PTFE (FULL) 4 - PTFE (COVER) 5 - FKM	A - BSP (Thread) B - NPT C - Flange

- Flange size according to ANSI and DIN standards.

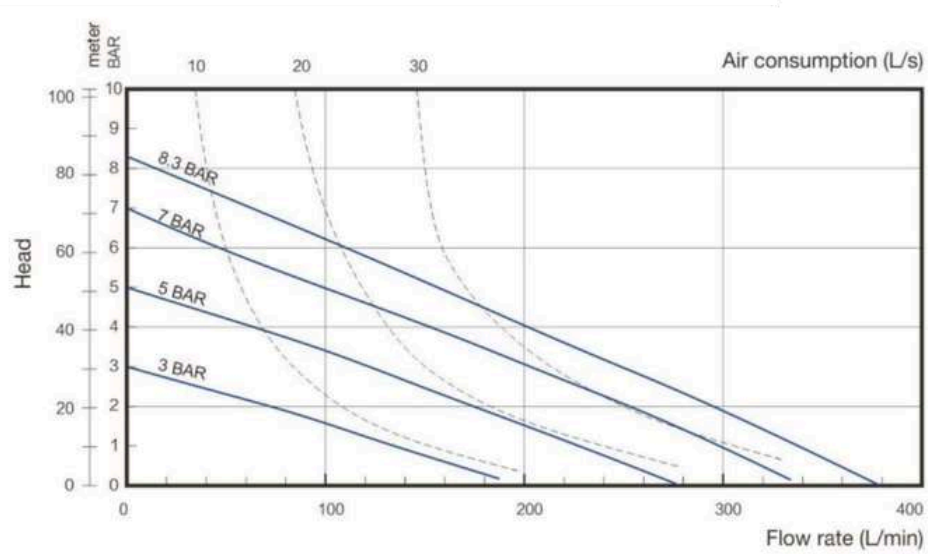
PUMP DATA

Working air pressure		0.10-0.83 Mpa
Maximum outlet pressure		0.83 Mpa
Maximum flow rate		378.5 lpm
Maximum particle size		6 mm
Maximum dry suction		6.7 m
Noise level @70psi		75 dB
Weight	Stainless Steel	30 kg
	Cast Iron	30 kg
	Aluminum	18 kg
	Polypropylene	19 kg
	PVDF	29 kg

Polypropylene / PVDF Pump

Stainless Steel Pump

PERFORMANCE CURVE

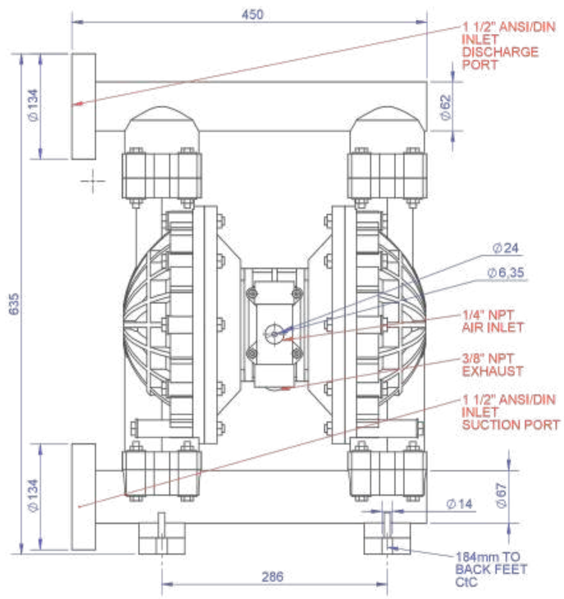


Cast Iron Pump

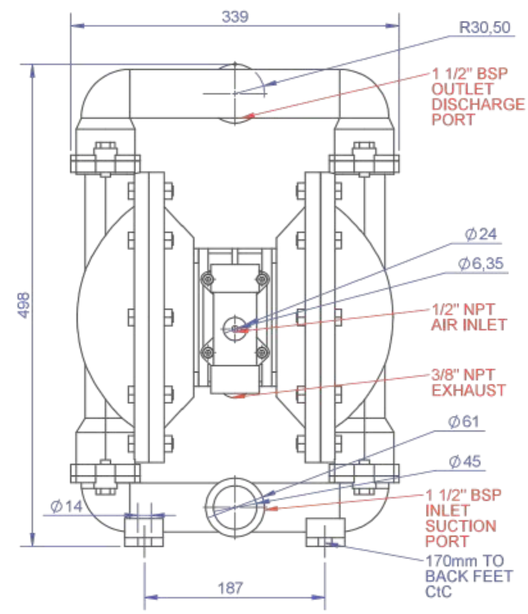
Aluminum Alloy Pump

BSK Fluid Technology LLC.

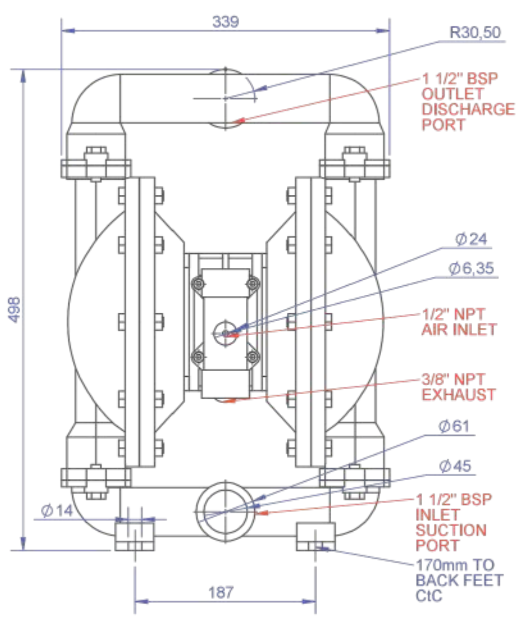
1 1/2" MODEL



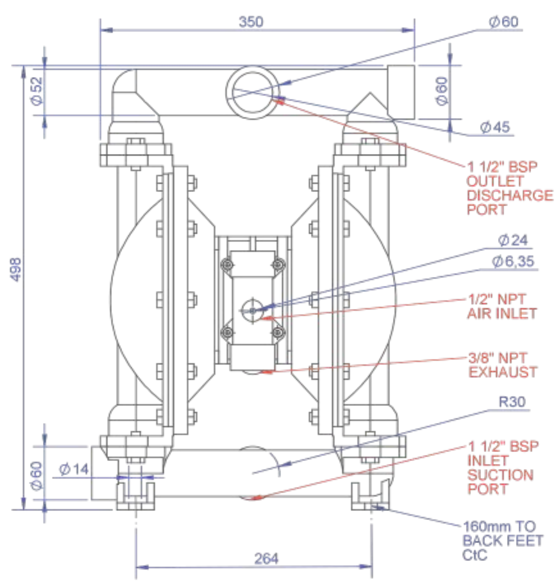
Polypropylene / PVDF Pump



Stainless Steel Pump



Cast Iron Pump



Aluminum Alloy Pump

*NOTE: Drawings are not to scale

2″ MODEL

X X 50 XX - XXXX - X

CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BA - Aluminum CP - Polypropylene	AL - Aluminum CI - Cast iron PP - Polypropylene PV - PVDF SS - Stainless steel	9 - Santoprene® C - Cast Iron D - POM O - Aluminum P- UPE S - Stainless steel T - PTFE	8 - Santoprene® w/steel core 9 - Santoprene® B - NBR H - Hytrel® T - PTFE P - UPE	9 - Santoprene® B - NBR H - Hytrel® T - PTFE/Santoprene®	0 - Non 1 - NBR 2 - EPDM 3 - PTFE (FULL) 4 - PTFE (COVER) 5 - FKM	A - BSP (Thread) B - NPT C - Flange

- Flange size according to ANSI and DIN standards.
- BSP threaded connections available on request.

Polypropylene /PVDF Pump

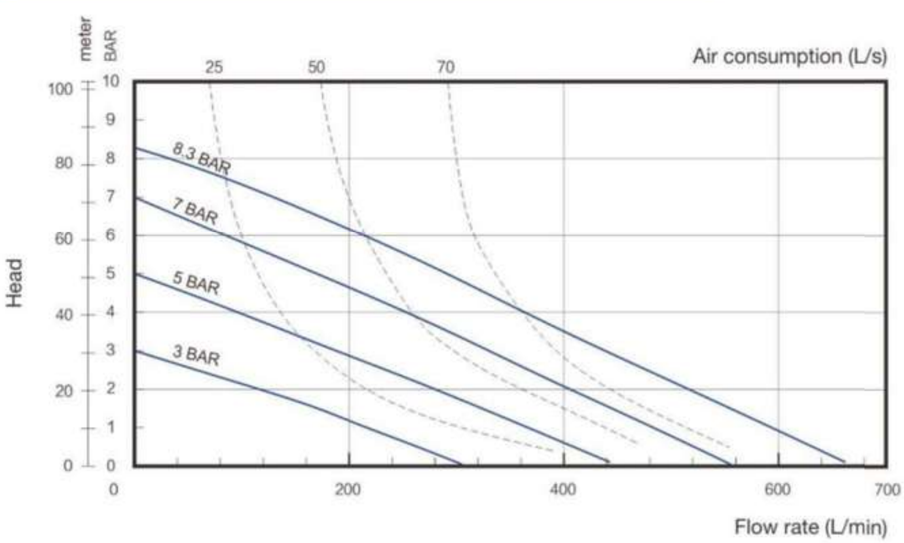
PUMP DATA

Working air pressure		0.10-0.83 Mpa
Maximum outlet pressure		0.83 Mpa
Maximum flow rate		667 lpm
Maximum particle size		7 mm
Maximum dry suction		6.2 m
Noise level @70psi		75 dB
Weight	Stainless Steel	53 kg
	Cast Iron	48.5 kg
	Aluminum	24.5 kg
	Polypropylene	26 kg
	PVDF	42 kg

Stainless Steel Pump

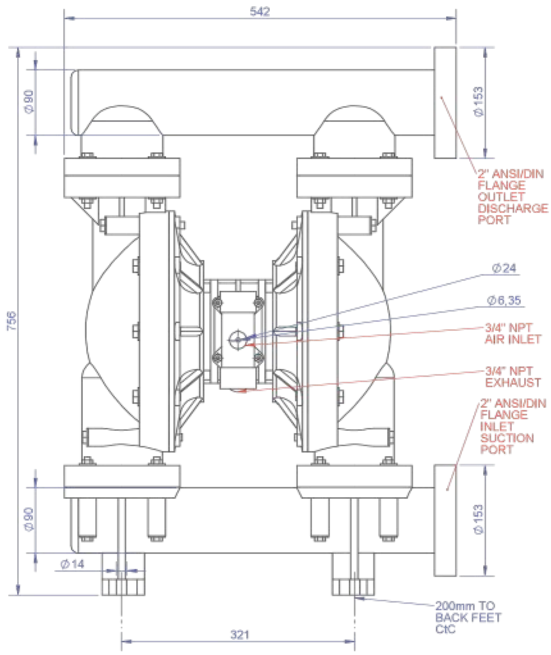
Cast Iron Pump

PERFORMANCE CURVE

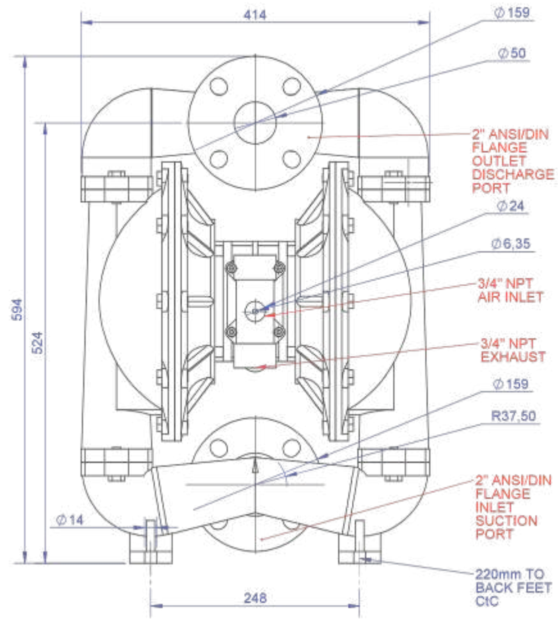


Aluminum Alloy Pump

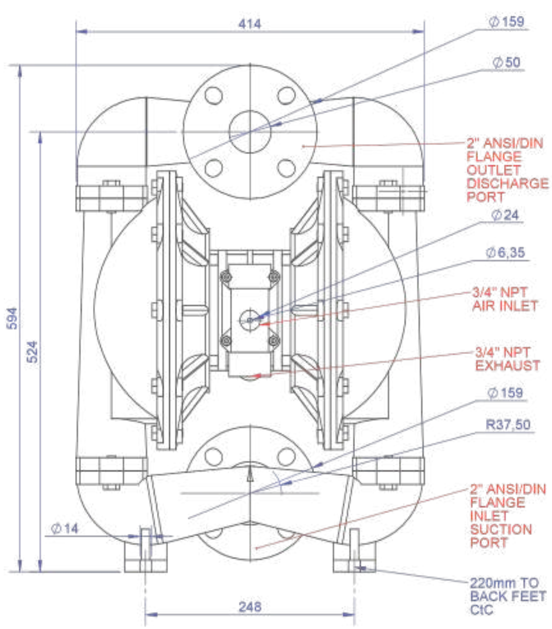
2" MODEL



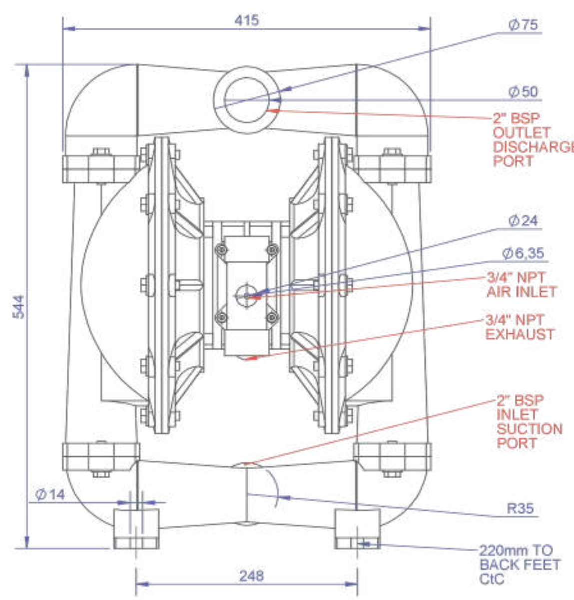
Polypropylene / PVDF Pump



Stainless Steel Pump



Cast Iron Pump



Aluminum Alloy Pump

**NOTE: Drawings are not to scale*

3″ MODEL

X X 80 XX - XXXX - X

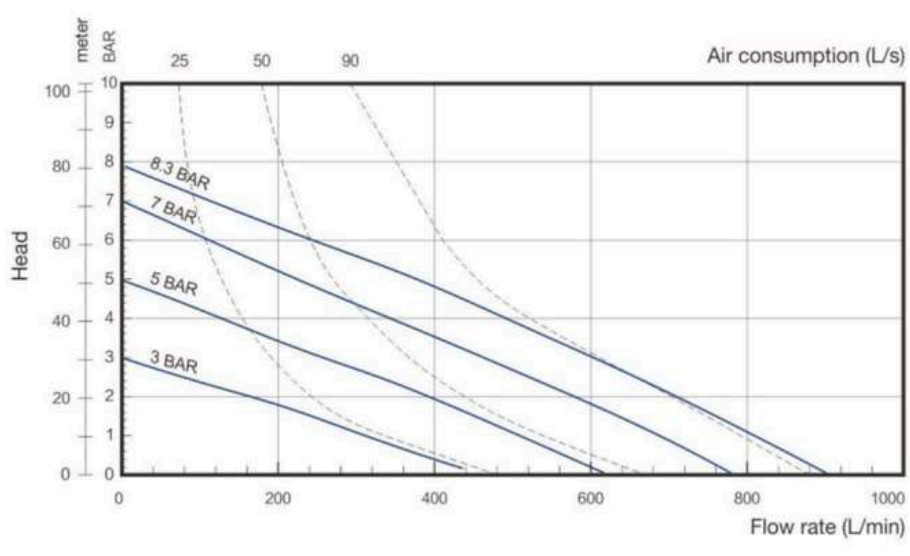
CENTER BODY	HOUSING MATERIAL	SEAT MATERIAL	BALL MATERIAL	DIAPHRAGM MATERIAL	O-RING MATERIAL	PORT
BA - Aluminum CP - Polypropylene	AL - Aluminum CI - Cast Iron PP - Polypropylene SS - Stainless steel	O - Aluminum 9 - Santoprene* C - Cast Iron D - POM S - Stainless steel	9 - Santoprene* B - NBR H - Hytrel* P - UPE T - PTFE	9 - Santoprene* B - NBR H - Hytrel* T - PTFE/Santoprene*	0 - Non 1 - NBR 2 - EPDM 3 - PTFE (FULL) 5 - FKM	A - BSP (Thread) B - NPT C - Flange

- Flange size according to ANSI and DIN standards.
- BSP threaded connections available on request.

PUMP DATA

Working air pressure		0.10-0.83 Mpa
Maximum outlet pressure		0.83 Mpa
Maximum flow rate		903 lpm
Maximum particle size		9 mm
Maximum dry suction		5.3 m
Noise level @70psi		75 dB
Weight	Stainless Steel	95 kg
	Cast Iron	91 kg
	Aluminum	42 kg
	Polypropylene	54 kg

PERFORMANCE CURVE



Polypropylene Pump

Stainless Steel Pump

Cast Iron Pump

Aluminum Alloy Pump