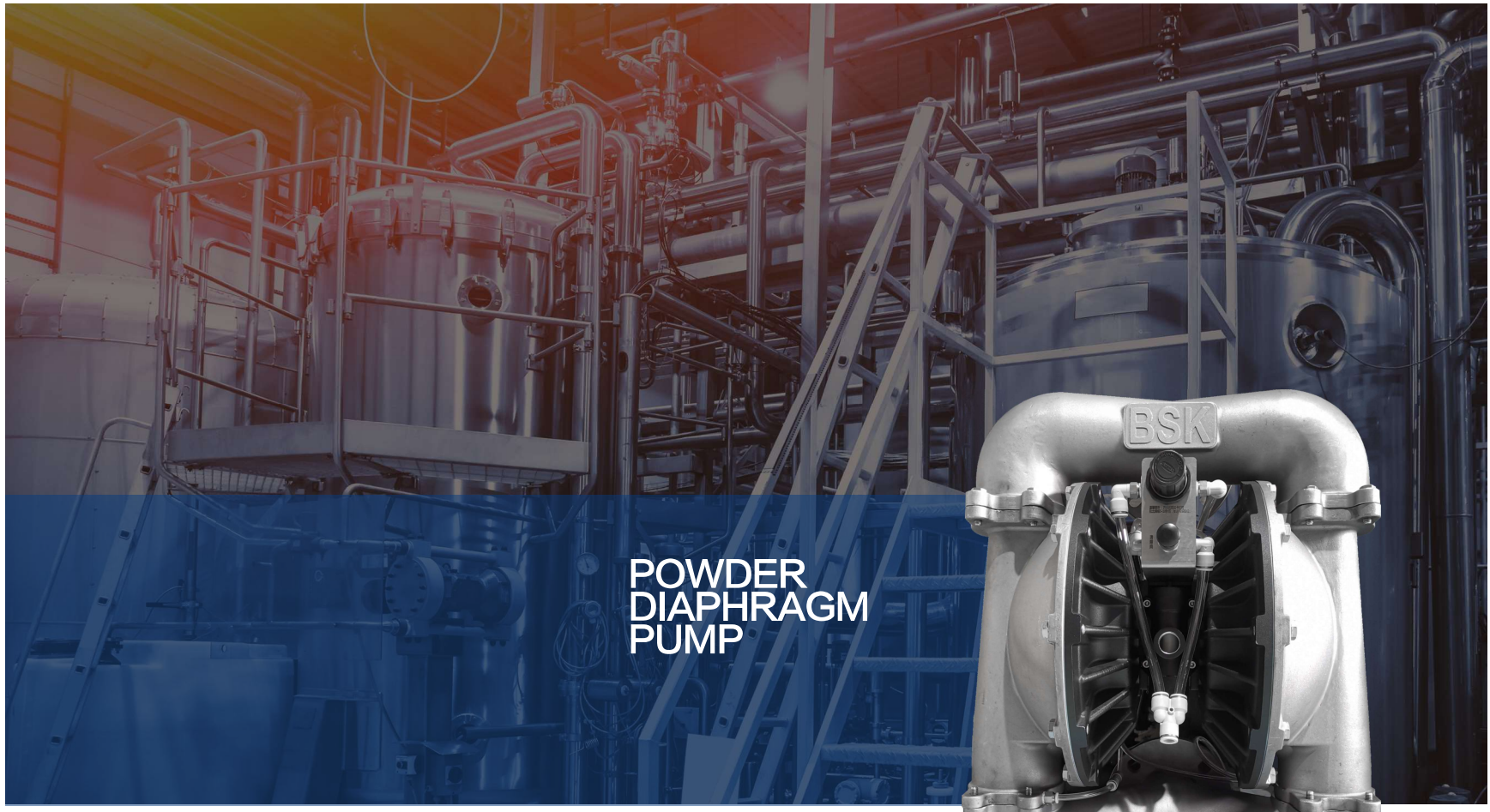
BSK

BSK Fluid Technology LLC

www.bskfluid.com



POWDER DIAPHRAGM PUMP

Hight efficiency/Energy Conservation/Reliable

BSK Fluid Technology LLC
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SN:BSK-EN-G-202112

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BSK

BSK Fluid Technology LLC

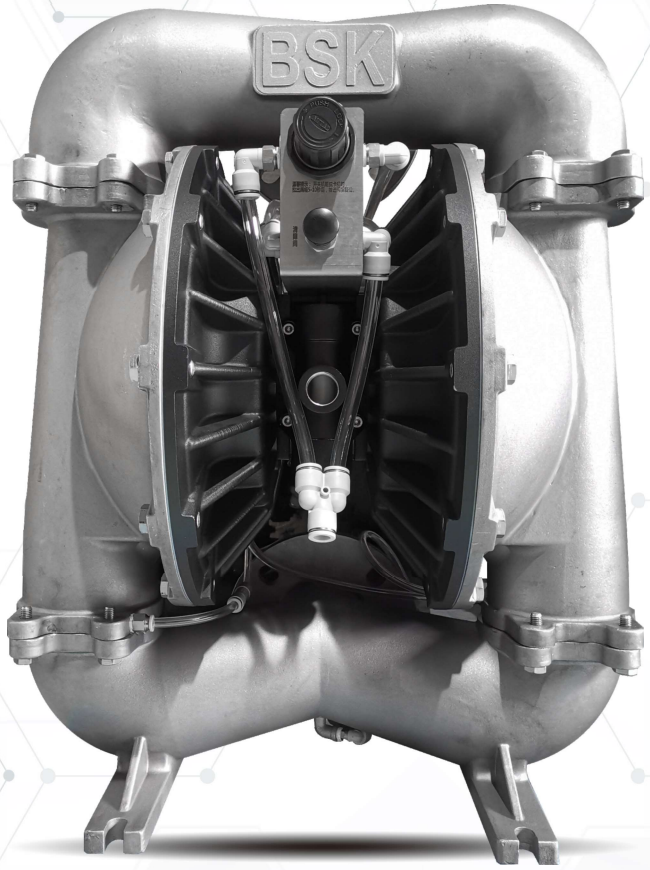
One key reset

Easy to operate

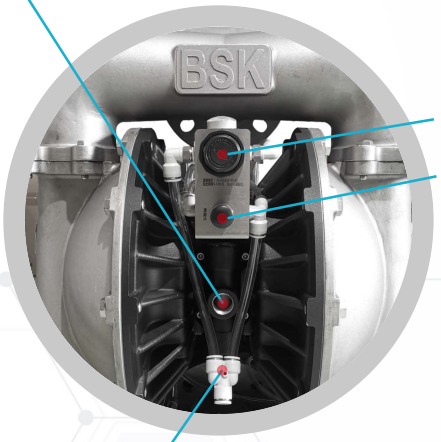
High energy efficiency

High bulk density powder

Up to 1200kg/m^3



A1(Main air valve)	3/4"−14 NPT
Air filtration requirement	50 μ m
PA50 Air supply capacity	⩾ 2 Nm³/min
PA80 Air supply capacity	⩾ 3 Nm³/min



V1(Regulator)

V2(Button for clearance)

A2 Fluidizing air inlet	12mm (Inner hole)
Air filtration requirement	50 μ m
Air supply capacity	⩾ 1 Nm³/min

PA50 XX-X X X X-X

Suction/Discharge Port
F – Pagoda-sharpe C - Flange

Valve Seat O-ring Materials
1 - NBR 3 - PTFE(Full)

Diaphragm Materials
9-Santoprene T- PTFE/Santoprene®

Valve Ball Materials
T - PTFE P - PP

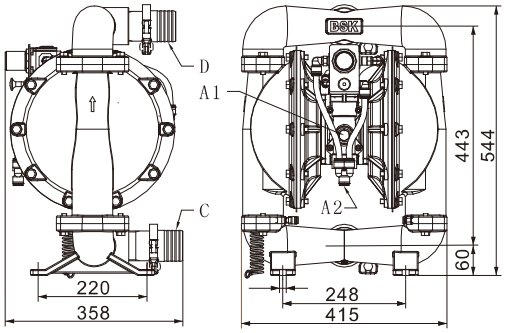
Valve Seat Materials
P - PP S - Stainless steel T -PTFE

Wetted Materials
AL – Aluminum alloy SS - Stainless steel

Model	PA50–X
Connection diameter	63mm Pagoda
Powder appliction	⩽1200 kg/m³
Flow rate*(1)	6.5 T/Hr
Head	⩽ 30 M
Max. air inlet pressure	8.3 Bar
Max. Fluidizing air pressure	6.9 Bar

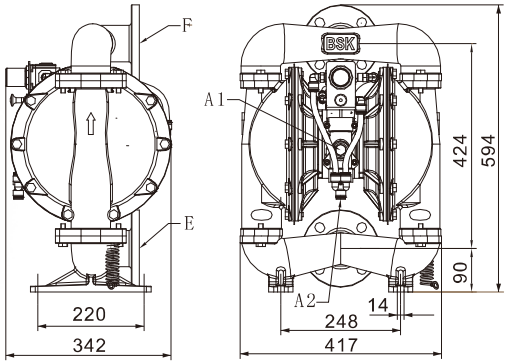
Note:* (1)Starch, @ air supply 1.7m^3/min

PA50AL-XXXX-F



A1	Air inlet	3/4"NPT
A2	Air inlet	∅12mm(Inner)
C	Fluid inlet	∅63mm(Outer)
D	Fluid outlet	∅63mm(Outer)
E	Fluid inlet	2"ANSI/DIN(Flange)
F	Fluid outlet	2"ANSI/DIN(Flange)

PA50SS-XXXX-C



PA80 XX-X X X X-X

Suction/Discharge Port
F – Pagoda-sharpe C - Flange

Valve Seat O-ring Materials
1 - NBR 3 - PTFE(Full)

Diaphragm Materials
9-Santoprene T- PTFE/Santoprene®

Valve Ball Materials
T - PTFE P - PP

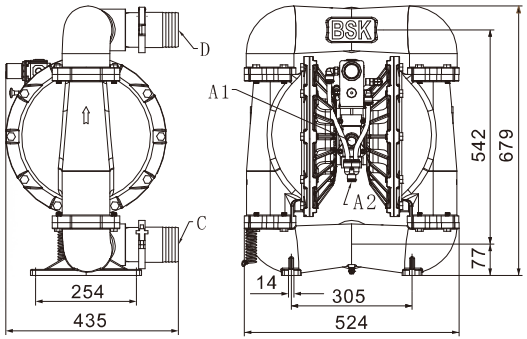
Valve Seat Materials
P - PP S - Stainless steel T -PTFE

Wetted Materials
AL – Aluminum alloy SS - Stainless steel

Model	PA80–X
Connection diameter	89mmPagoda
Powder appliction	≤1200 kg/m³
Flow rate*(1)	10.1 T/Hr
Head	≤ 30 M
Max. air inlet pressure	8.3 Bar
Max. Fluidizing air pressure	6.9 Bar

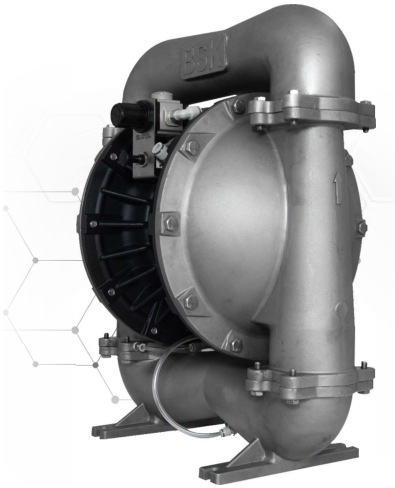
Note:* (1)Starch, @ air supply 2.3m^3/min

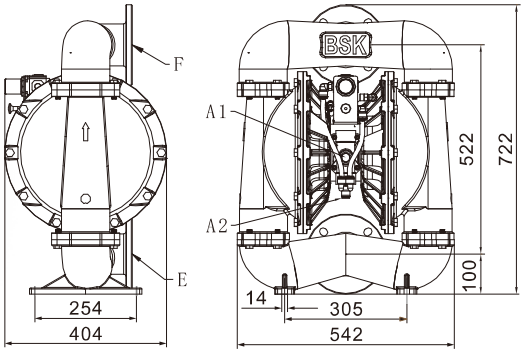
PA80AL-XXXX-F



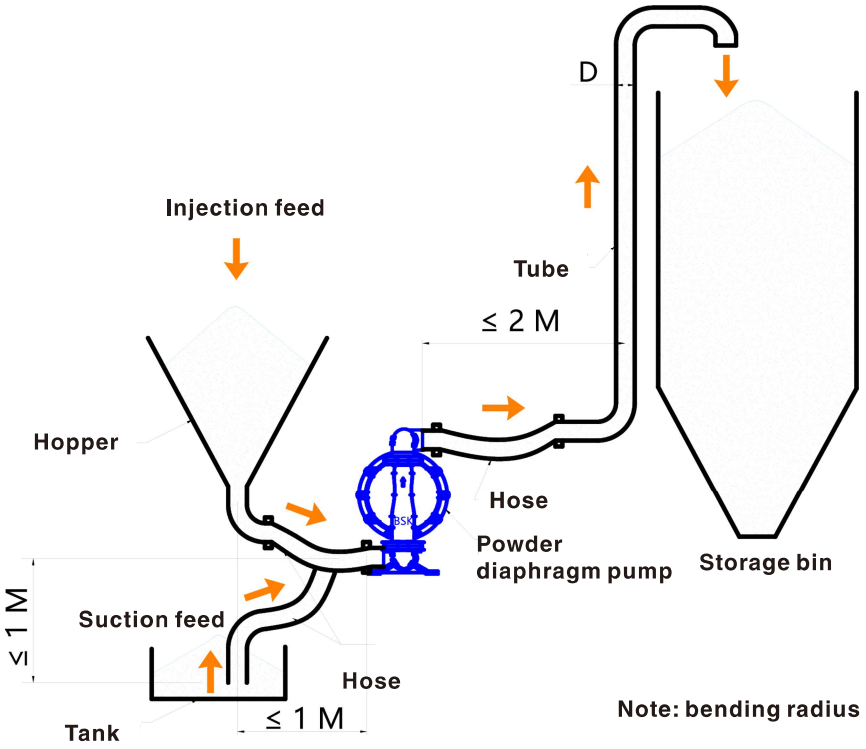
A1	Air inlet	3/8" NPT
A2	Air inlet	∅12mm(Inner)
C	Fluid inlet	∅89mm(Outer)
D	Fluid outlet	∅89mm(Outer)
E	Fluid inlet	3"ANSI/DIN(Flange)
F	Fluid outlet	3"ANSI/DIN(Flange)

PA80SS-XXXX-C





Typical connection diagram



Note: bending radius >8D

Application

Advantage

01 Powder feeding process, more efficient, less man-power requirement.

02 A high degree of automation,lower operating cost.

03 Pneumatic transport. Avoid material being heated and static spark.

04 More moderate internal shear forces.Avoid damage to material integrity.

05 Closed pipe transportation.Avoid material leakage or pollution

06 Hose connection, convenient layout

07 Be more applicable to high stacking density powder.