

Powder Pump Series



Series BH-3

Yamada Powder Pumps are specifically designed to transfer bulk solids more effectively through your process. They are a cost effective replacement for augers and conveyors and eliminate unsafe and labor intensive means of moving bulk powders. These heavy duty pumps consistently transfer fine-grained (100µm or finer), low bulk density (2 to 22 kg/m³), dry powders in a dust-free operation. Yamada offers a base unit especially for light powders.

□ FEATURES

- Conveying distance depends upon the micron size and the bulk density of the powder. For example fumed silica can be conveyed for 45 m while flour with a maximum of 12 m. Refer to the Yamada "pumpable powders" data sheet for specific materials.
- Powder must be 150 Mesh (106 microns) or smaller size particle / powder and dry. The pump will not pump crystals or flakes and the bulk density should be less than 22 kg/m³. The higher the bulk density, the shorter the conveying distance and the lower the flow rate.
- The pump can be located at a maximum of 4,5 m above powder source.
- Yamada recommends aeration / fluidization of the powder with a minimum of 10 to 15 seconds prior to starting the pump. By doing this, premature diaphragm, center shaft, and center disk failure can be avoided.
- Teflon® check balls are recommended for sticky powders.
- Yamada recommends regulating compressed air up to 5 Bar maximum.

□ SPECIFICATIONS

Series BH-1:

- Available housings: Aluminium, 316 Stainless Steel, or Cast Iron
- 1-1/2" to 3" port sizes
- Available connections:
 - Aluminium: Combi connection, Flange with female NPT threaded connection
 - Stainless Steel: Flange connection
 - Cast Iron: Female NPT threaded connection
- Sweeping one piece manifolds
- Solid 316 Stainless Steel center shaft
- Patented non-lubricated, non-stalling air valve technology
- Bolted mating surfaces
- Portable
- Conveys up to 2 m³ per minute (3" model)
- Vacuum activated aeration valve mounted to suction manifold

Series BH-2: Including all above features plus:

- Compressed air induction system fluidizes all four check valves while the pump is operating

Series BH-3: Including all above features plus:

- Independent port for inert gas fluidization rather than compressed air
- Delay timer to begin fluidizing check valves 1-60 seconds prior to the pump starting and 1-60 seconds after the pump stops

Optional Extras:

- Reinforced stainless centre rod
- Reinforced centre disc
- FDA compliant version
- Static discharge wire

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Series BH-2

	Air volume	Cubic meters
NDP-40	430 to 2550 L/min	4,0 m ³ /h
NDP-50	570 to 3000 L/min	6,0 m ³ /h
NDP-80	860 to 3450 L/min	12,0 m ³ /h



Yamada Distributor