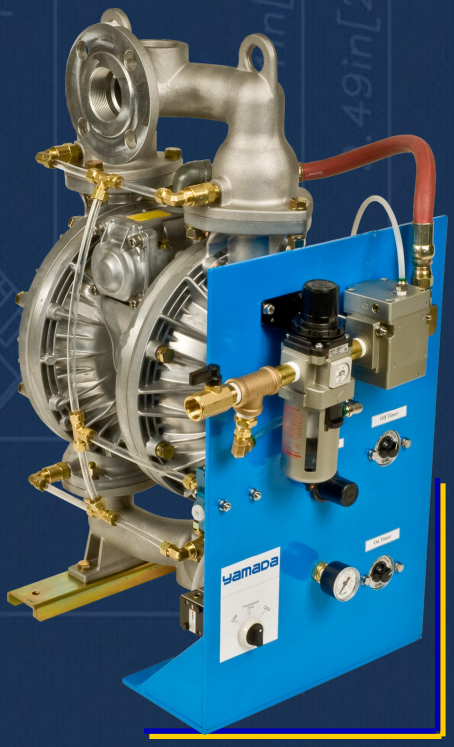
yamada®

Powder Pump

Series BH-2

Yamada Powder Pumps were specifically designed to move bulk solids more effectively throughout 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 (100um or finer), low bulk density (80 to 800 Kg. / M^3), dry powders in a dust-free operation.
Yamada offers a base unit specifically for light powders

Series BH-3



Series BH-1:

- 1-1/2” to 3” port sizes
- Aluminum, Cast Iron, or 316 Stainless Steel housings
- 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 0,2 M^3 per minute (3” model)
- Vacuum Activated Aeration Valve mounted to **Suction** manifold

Series BH-2:

- Includes all of the above features and…
- Compressed air induction system fluidizes all four check valves while the pump is operating

Series BH-3:

- Includes all of the above features and…
- 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

The Proof’s in the Pump

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Powder Pump Data

Applications

Activated carbon	Diatomaceous earth	Pearlite	Pyrogenic & precipitated silicic acid
Acrylic resins	Expanded mica	Pesticides	Quartz powder
Aluminum oxide	Fire-extinguishing powder	Pharmaceuticals	Salicylic acid
Bentonite	Fumed silica	Pigments	Silicones
Carbon black	Ground limestone	Powder coatings	Starch
Cereal flours	Kaolin	Powdered plastics	Talc
Clay powder	Micro dolomite filter dust	Powdered rock	Toners

Specifications:

- Conveying distance depends upon the micron size and the bulk density of the powder. For example fumed silica can be conveyed **45 mtr** while flour a maximum of **12 mtr** Refer to the Yamada "pumpable Powders" data sheet for specific materials.

- Powder must be 150 mesh (106 micron) or smaller size particle / powder and dry. The Pump will not pump crystals or flakes and the bulk density should be less than **800 Kg. / M^3** The higher the bulk density, the shorter the conveying distance and the lower the flow rate.

- The Pump can be located a maximum of **4,5 mtr** above powder source.

- Yamada recommends aeration / fluidization of the powder a minimum of 10 to 15 seconds prior to starting the pump- premature diaphragm, center shaft, and center disk failure can be avoided.

- Teflon® check balls are recommend for sticky powders.

- Air volume requirements & capacity:
  NDP-40 (1-1/2" port): = **430 to 2550Nlm**. Maximum flow rate: **4,0 cubic meter per hour**
  NDP-50 (2" port): = **570 to 3000Nlm**. Maximum flow rate: **6,0 cubic meter per hour**
  NDP-80 (3" port): = **860 to 3450Nlm**. Maximum flow rate: **12,0 cubic meter per hour**

- Yamada recommends regulating compressed air to **5 Bar** Maximum.

Note: Add the kit # to the standard Yamada nomenclature when ordering.
Example: NDP-50BAC-BH-2 for a 2" Aluminum Pump with Neoprene elastomers & Series-2 Powder features.

Kit #	Description
BH-1	Kit includes Vacuum Actuated Aeration Valve on Suction Side of Pump
BH-2	Kit Includes Vacuum Actuated Aeration Valve on Suction Side of Pump & Air Induction System at Check Valves
BH-3	Kit includes Vacuum Actuated Aeration Valve on Suction Side of Pump, Air Induction System at Check Valves, Inert Gas Port Option, & Time Delay Pump Purge.

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Your local distributor:

Form# BH0309

Note: Due to Yamada's continued commitment to product improvement, specifications may change without notice.
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