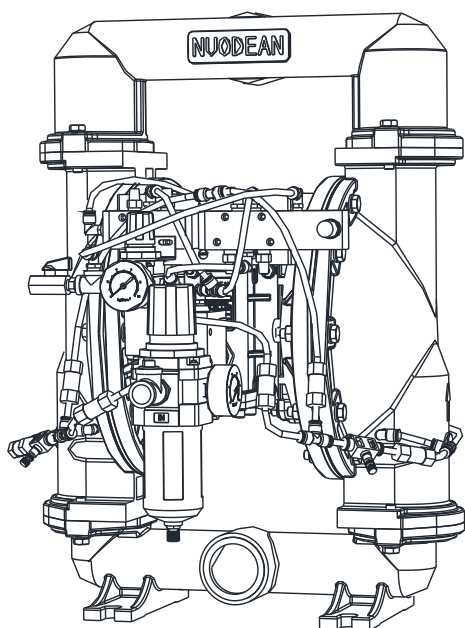


**DRY POWDER DIAPHRAGM PUMP**

Model: DP16-XX-XXXXXX



Transfer and handle your dry process powder faster, cleaner and at a fraction of the cost associated with installed “systems”. Consistent trouble-free transfer of powders up to 45-lbs. per cubic foot (721kgs. per cubic meter) dry-weight, such as carbon black, expanded mica, silicones, acrylic resins, 3D printing powders and pharmaceuticals.

- Replace manual powder processes
- Reduce airborne contamination-with direct transfer from the powder container to your recipe.
- Unique air-induction system-avoids the possibility of powder pack-out.
- Portable-Can be moved from site to site.

**Pre-injection Technology:**

When the pump start up, the procedure will be divided into two steps.

**Step No.1:** Pump will be delayed for 3 to 8 seconds before starting. During the delay time, the fluidizing gas will be injected into the both fluid chambers for 3-8 seconds to fluidize the powder deposited last time.

**Step No.2:** After the above step, the pump start ,and then work normally.

**ORDERING:**

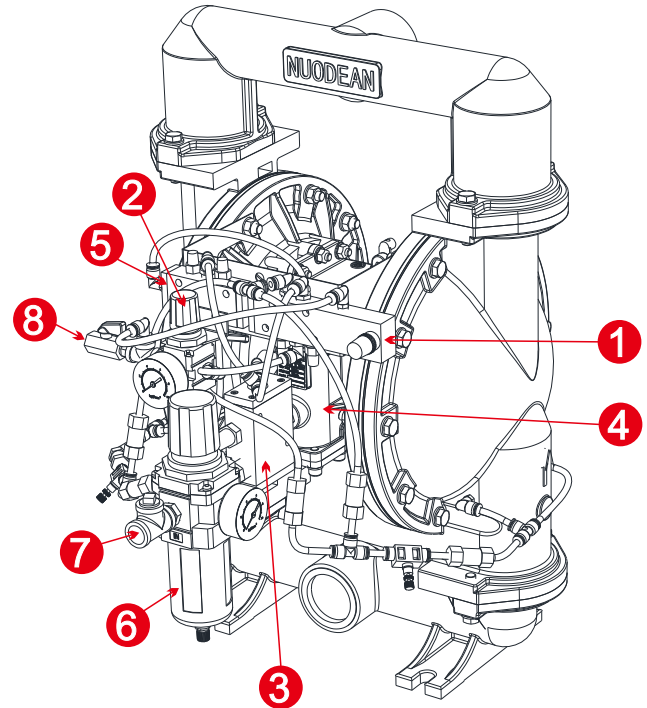
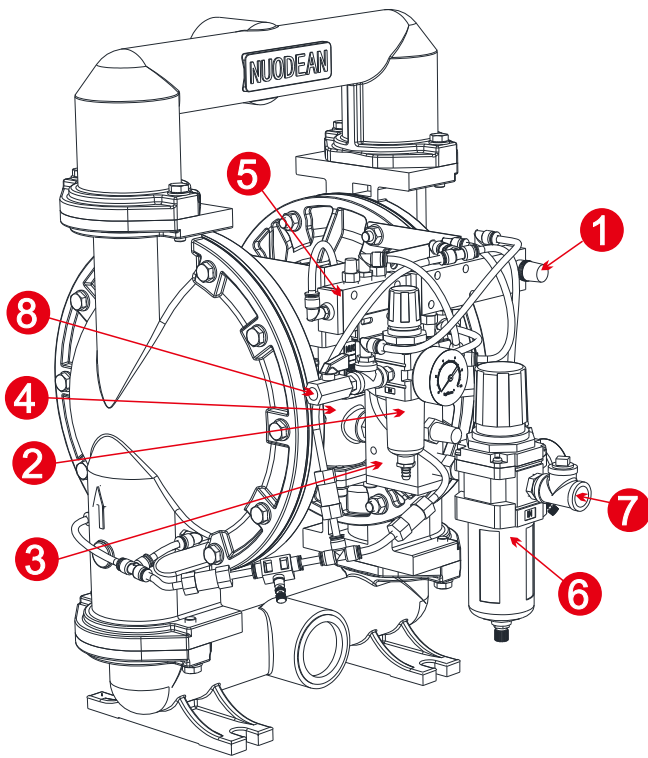
Position		1		2	3	4	5	6	7
Example:	DP16-	XX	-	X	X	X	X	X	X

Position 1 Size	Position 2 Connections	Position 3 Wetted Parts	Position 4 Hardware
40-- 1-1/2"	A-NPT Screwed	A-Aluminum	P-Plated Steel
50-- 2"	B-BSPT Screwed	S-Stainless Steel	S-Stainless Steel
80-- 3"			

Position 5 Seat Material	Position 6 Ball Material	Position 7 Diaphragm Material
A-Santoprene	A-Santoprene	A-Santoprene
S-Stainless Steel		M-Medical Grade Santoprene

**DRY POWDER DIAPHRAGM PUMP**

Model: DP16-XX-XXXXXX



- 1 Delay Timer:** Insures proper, enough fluidization of the powder before start-up
- 2 Air Filter/Regulator:** Included with pump
- 3 Main Air Control Valve:** Directly controlled by the Delay Timer, main start-up valve supplies air pressure directly to the pump's major air valve.
- 4 Pump Major Air Valve:** NUODEAN's air valve features patented, stall-free design.
- 5 2-position 5-way valve:** Alternately blow the fluidizing air (or other inert gas) into the two fluid chambers to fluidize the powder inside .
- 6 Piggyback Air Filter/Regulator**
- 7 Air Inlet:** The compressed air that will drive the pump ,is connected to this Air Inlet.  
Maximum Air Inlet Pressure: 50psi(3.4 bar)
- 8 Fluidizing Gas Inlet:** The inert gas or air to fluidize the powder , is connected to this Fluidizing Gas Inlet.  
Maximum Fluidizing Pressure: 100psi(6.9 bar)