

Typical feeder suitability for various pneumatic conveying applications*

Feeder	Pressure conveying	Vacuum conveying	Pressure differential (psi)	Abrasive materials	Hot materials	Fine powders	Fibrous materials
Screw	No	Yes	0	Yes	Yes	Yes	No
Belt	No	Yes	0	Possible	No	No	No
Rotary valve	Yes	Yes	15	Yes	Yes	Yes	Possible
High-pressure rotary valve	Yes	Yes	50	Yes	Yes	Yes	Avoid
Pressure-sealing screw pump	Yes	Yes	3	Yes	Yes	Yes	No
Eductor	Yes	No	4	Yes	Yes	Yes	No
Double-dump valve	Yes	Yes	15	Yes	Yes	Yes	Yes
Screw pump	Yes	No	50	Yes	Yes	Yes	No
Blow tank	Yes	No	100	Yes	Yes	Yes	No
Lock hopper	Yes	Yes	300	Yes	Yes	Yes	No

*Be aware that there are exceptions to the general information here.

Courtesy Jenike & Johanson, Tyngsboro, MA. Find more information in the article "How to reliably feed material into your pneumatic conveying system" by Jayant Khambekar and Eric Maynard, *Powder and Bulk Engineering*, July 2011, page 45.