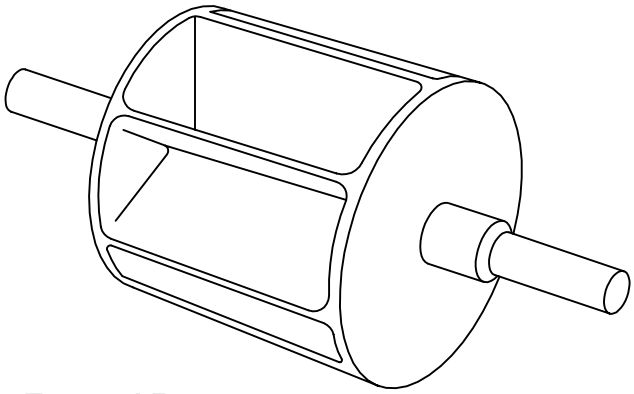
Tapered Rotor vs. Bolt-On Tips

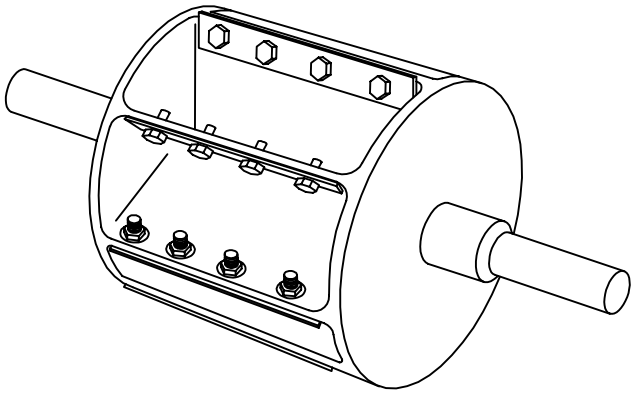
There are three main reasons why you might want to use **bolt-on rotor tips** in your rotary valve design: **(1)** to adjust rotor clearance (to compensate for air leakage, temperature or product characteristics); **(2)** as replaceable wear parts; **(3)** as a scraping blade for sticky material. Our exclusive ***Tapered Rotor*** avoids many of the reasons bolt-on tips might have been used. In most cases the ***Tapered Rotor*** eliminates two of the three reasons for using bolt-on tips including rotor clearance adjustment and for wear. The ***Tapered Rotor*** avoids the contamination problems of bolt-on tips which can trap product in the crevices. Another benefit of the ***Tapered Rotor*** is that, unlike straight rotors, our rotor can be replaced without being machined for a specific valve body. The ***Tapered Rotor*** is simply installed and the desired rotor clearance set. The reduction in down time and cost is substantial.

Tramp Metal - The last thing you need to risk is tramp metal going downstream to your sifter, packer or final product. The Tapered Rotor can help you avoid this problem.

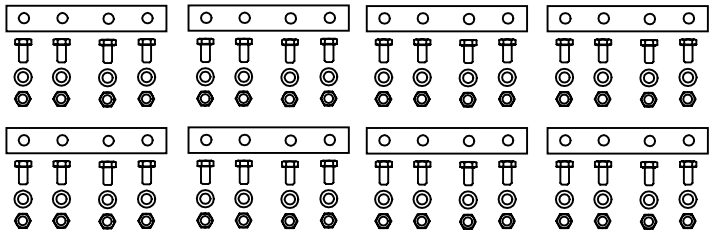


Tapered Rotor = no loose parts

(We do offer bolt-on hardened steel, phosphor-bronze, polyurethane and PTFE tips for applications not fulfilled by the Tapered Rotor alone. Contact our engineering department for recommendations.)

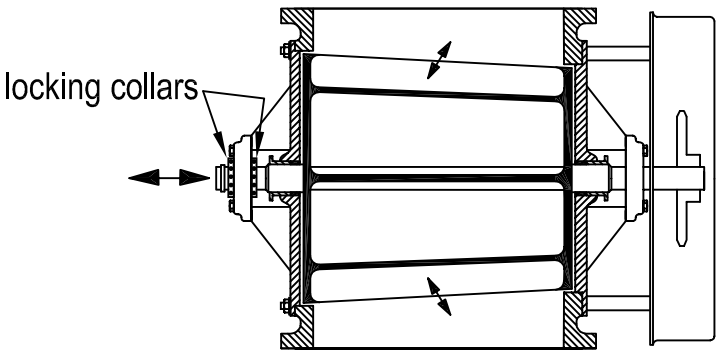


Bolt-On Tips = 104 to 152 loose parts

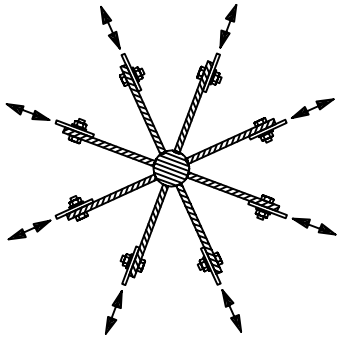


Rotor Clearance Adjustment - Proper rotor clearance is important for optimum rotary valve performance. The easier it is to adjust rotor clearance the more likely it will be maintained.

TAPERED ROTOR - No disassembly required. External adjustment simply by loosening two external locking collars and set screws.



BOLT-ON TIPS - The rotor must be removed from the valve and set on a jig in order to set each blade tip independently via the 4 to 6 retaining bolts or machined to the desired diameter.



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